

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402637

Luminaire Tested: **GAN-AF-09-LED-U-SL4-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936 lumens
Efficiency: N/A
Efficacy: 38.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

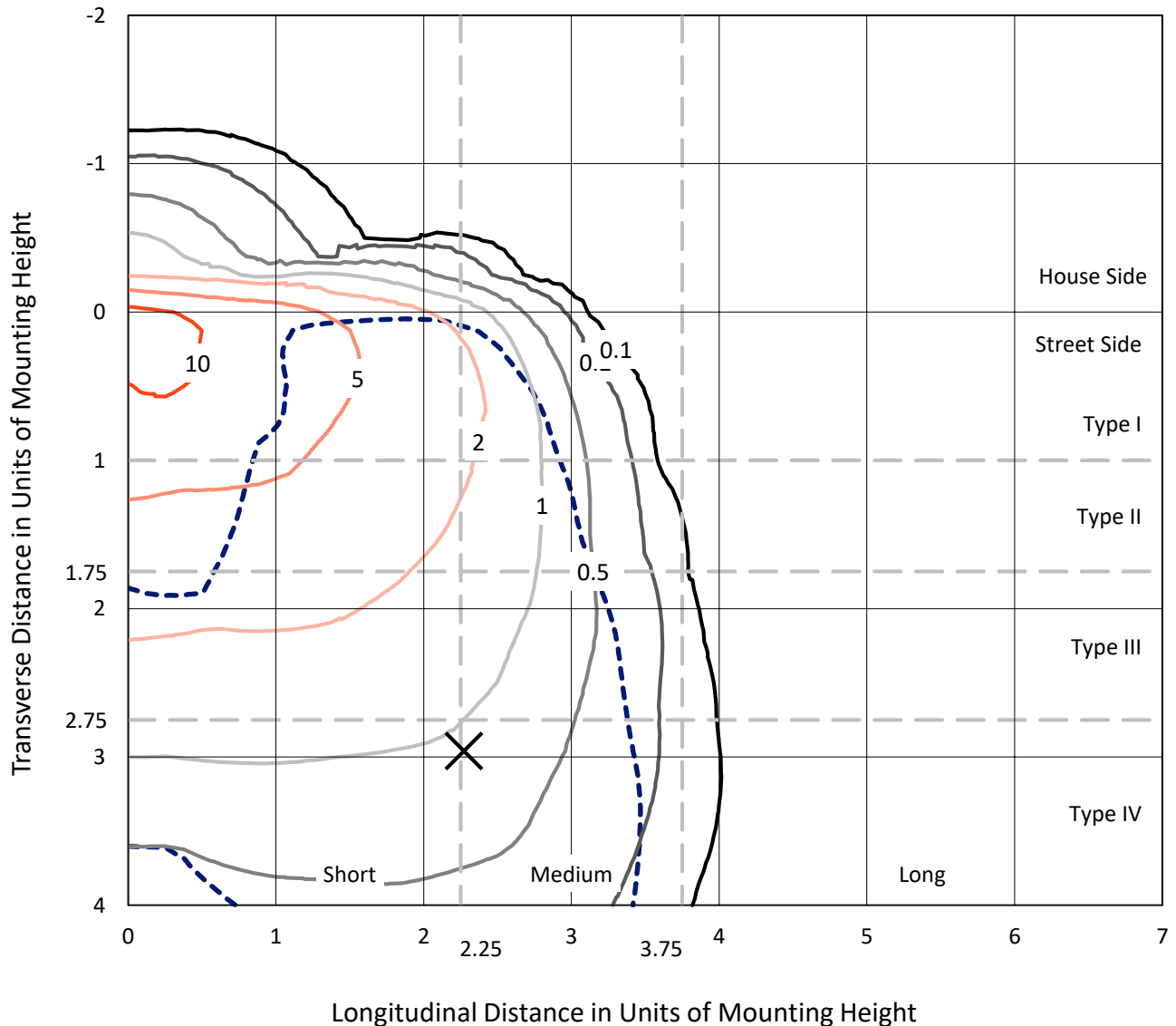
Input Watts (W): 178.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

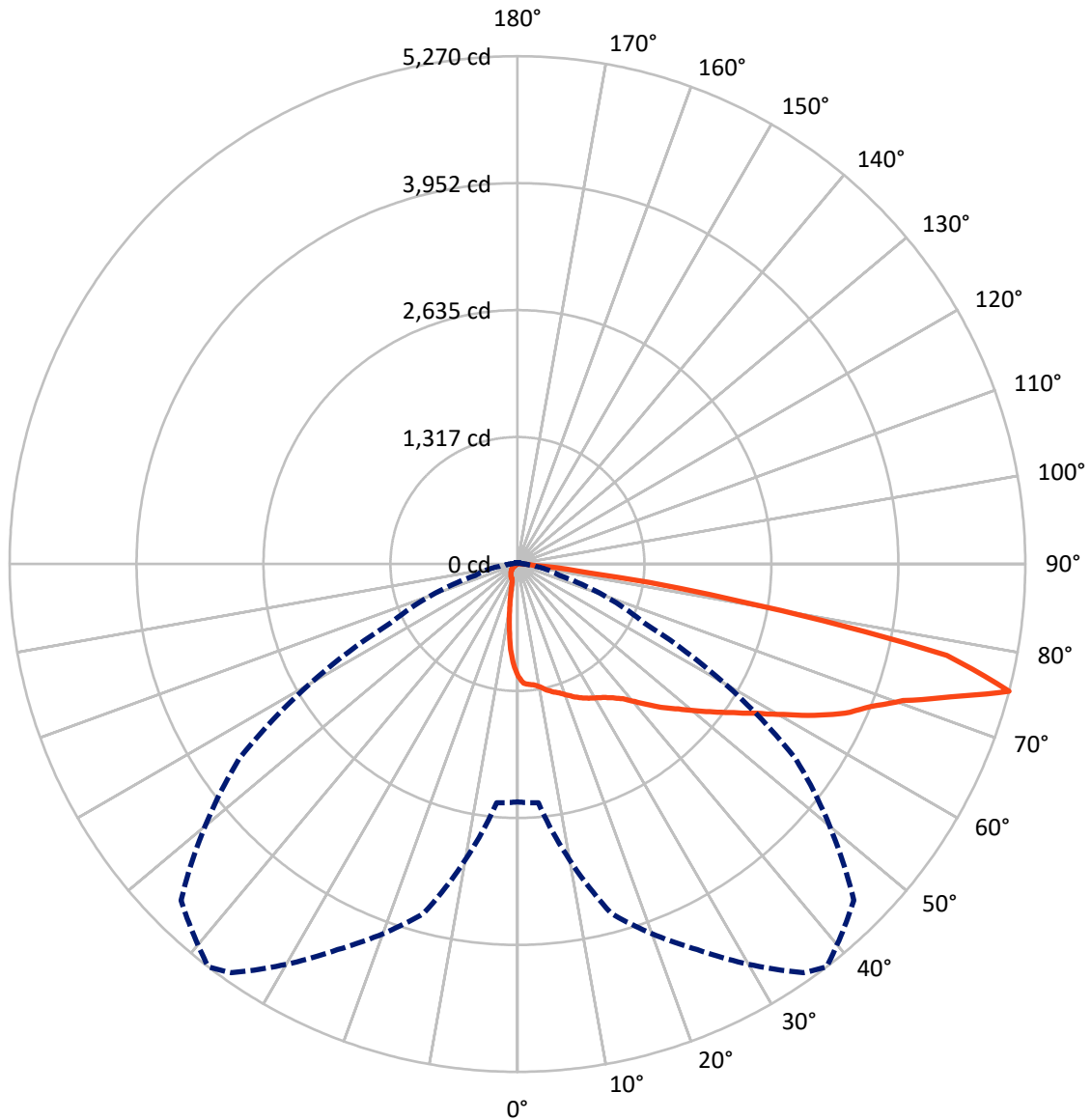
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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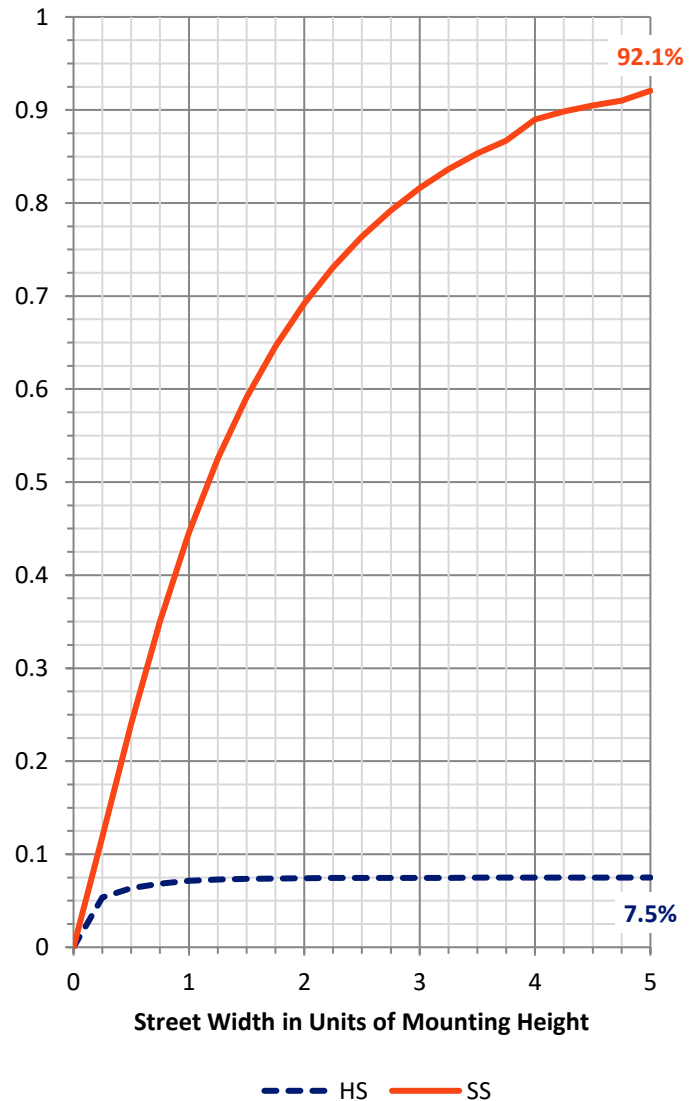
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	524.2	0.0	524.2
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	6411.8	0.0	6411.8
	% Fixture	92.4	0.0	92.4
Total	Lumens	6936.0	0.0	6936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.4
10°-20°	250.5	3.6
20°-30°	410.0	5.9
30°-40°	609.2	8.8
40°-50°	911.9	13.1
50°-60°	1310.4	18.9
60°-70°	1756.2	25.3
70°-80°	1422.6	20.5
80°-90°	166.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6936.0	100.0
0°-180°	6936.0	100.0



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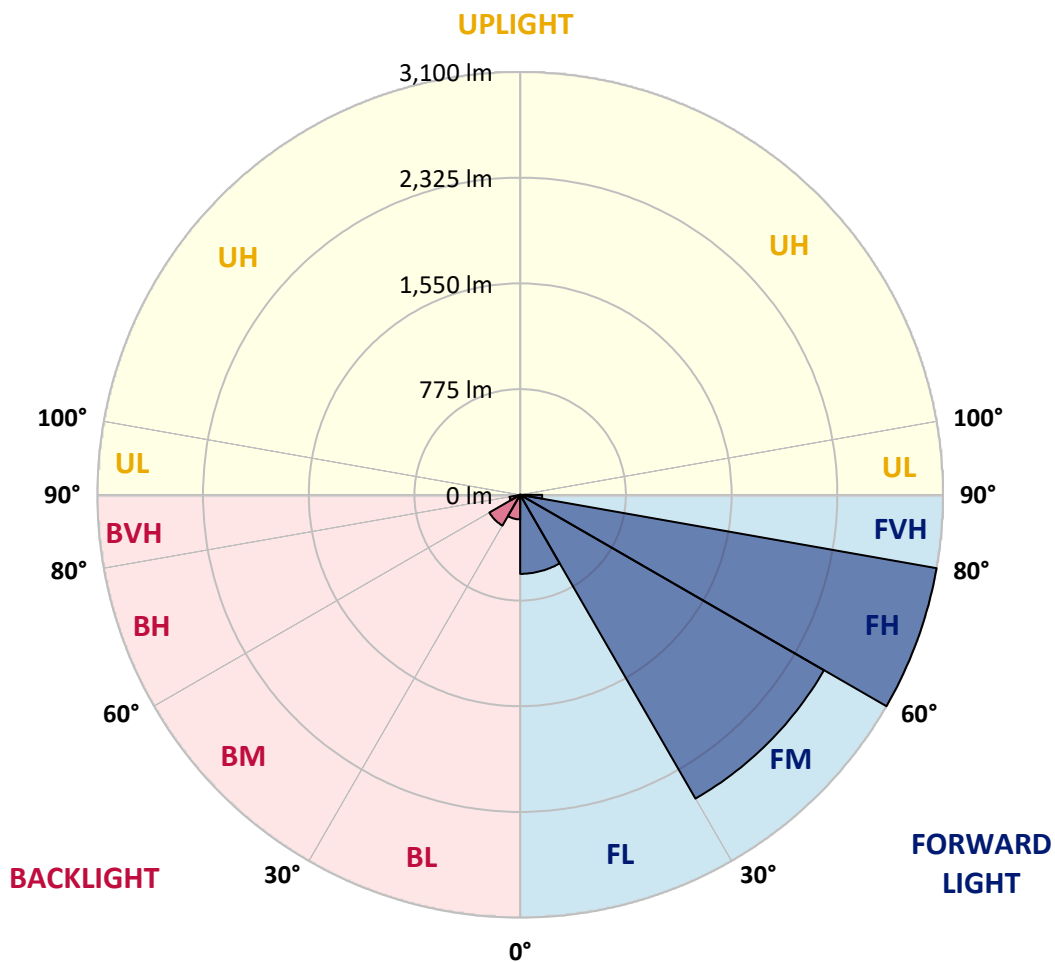
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.3	8.4			
FM (30°-60°)	2571.2	37.1			
FH (60°-80°)	3099.6	44.7			G2/5000
FVH (80°-90°)	161.6	2.3			G2/225
BL (0°-30°)	180.1	2.6	B1/500		
BM (30°-60°)	260.3	3.8	B1/1000		
BH (60°-80°)	79.1	1.1	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4
2.5°	1255.5	1251.6	1251.6	1243.9	1240.0	1240.0	1224.5	1220.6	1205.1	1189.6	1170.2
5°	1259.4	1259.4	1255.5	1259.4	1255.5	1255.5	1247.7	1243.9	1228.4	1197.4	1162.5
7.5°	1282.6	1278.7	1274.9	1274.9	1267.1	1267.1	1247.7	1240.0	1224.5	1205.1	1154.7
10°	1282.6	1282.6	1290.4	1298.1	1298.1	1298.1	1278.7	1255.5	1232.2	1212.9	1154.7
12.5°	1278.7	1278.7	1290.4	1317.5	1336.9	1340.7	1329.1	1298.1	1259.4	1224.5	1170.2
15°	1274.9	1278.7	1294.2	1333.0	1367.9	1375.6	1371.7	1348.5	1298.1	1247.7	1189.6
17.5°	1282.6	1290.4	1309.7	1364.0	1402.7	1406.6	1410.5	1395.0	1340.7	1278.7	1220.6
20°	1294.2	1298.1	1340.7	1406.6	1445.4	1449.2	1445.4	1422.1	1375.6	1317.5	1255.5
22.5°	1313.6	1321.4	1375.6	1449.2	1491.9	1495.7	1484.1	1445.4	1395.0	1348.5	1294.2
25°	1352.4	1360.1	1426.0	1499.6	1530.6	1538.4	1526.7	1480.2	1414.4	1383.4	1336.9
27.5°	1398.9	1410.5	1480.2	1550.0	1569.4	1577.1	1565.5	1511.2	1441.5	1429.9	1391.1
30°	1468.6	1476.4	1542.2	1600.4	1608.1	1612.0	1604.2	1542.2	1480.2	1480.2	1445.4
32.5°	1553.9	1565.5	1608.1	1650.7	1646.9	1650.7	1646.9	1581.0	1526.7	1557.7	1511.2
35°	1654.6	1643.0	1693.4	1712.7	1697.2	1705.0	1708.8	1643.0	1596.5	1658.5	1600.4
37.5°	1732.1	1732.1	1759.2	1778.6	1767.0	1774.7	1786.3	1724.3	1693.4	1801.8	1736.0
40°	1798.0	1798.0	1817.3	1856.1	1860.0	1875.5	1898.7	1825.1	1825.1	1968.5	1894.8
42.5°	1848.3	1856.1	1871.6	1922.0	1972.3	1999.5	2022.7	1949.1	1984.0	2181.6	2104.1
45°	1898.7	1906.5	1914.2	1987.8	2088.6	2127.3	2173.8	2104.1	2166.1	2406.3	2321.1
47.5°	1960.7	1960.7	1956.8	2073.1	2197.1	2247.5	2328.8	2270.7	2383.1	2681.5	2549.7
50°	2038.2	2030.5	1995.6	2162.2	2328.8	2390.8	2514.8	2456.7	2627.2	2968.2	2720.2
52.5°	2127.3	2108.0	2053.7	2255.2	2472.2	2549.7	2708.6	2669.8	2883.0	3196.8	2817.1
55°	2239.7	2208.7	2135.1	2367.6	2646.6	2724.1	2910.1	2933.3	3127.1	3328.6	2917.8
57.5°	2383.1	2325.0	2243.6	2507.1	2848.1	2921.7	3138.7	3189.1	3289.8	3456.4	3045.7
60°	2526.5	2464.5	2390.8	2697.0	3069.0	3169.7	3382.8	3402.2	3421.6	3634.7	3185.2
62.5°	2654.3	2619.5	2576.8	2910.1	3371.2	3460.3	3592.1	3564.9	3588.2	3843.9	3297.6
65°	2817.1	2782.2	2774.5	3154.2	3657.9	3735.4	3750.9	3762.6	3847.8	4049.3	3355.7
67.5°	2956.6	2945.0	3014.7	3444.8	3917.6	3948.6	4006.7	4072.6	4119.1	4142.3	2968.2
70°	3154.2	3134.8	3289.8	3735.4	4177.2	4243.1	4448.4	4514.3	4192.7	3394.5	1817.3
72.5°	3173.6	3208.5	3630.8	4037.7	4564.7	4708.1	4963.8	4611.2	3258.8	1821.2	565.7
75°	2468.3	2487.7	3750.9	4413.6	5176.9	5269.9	4936.7	3526.2	1457.0	449.5	127.9
77.5°	1375.6	1449.2	2507.1	4095.8	4704.2	4556.9	3375.1	1557.7	375.9	100.7	65.9
80°	1007.5	1042.4	1209.0	2344.3	2662.1	2340.5	1406.6	592.9	205.4	69.7	46.5
82.5°	298.4	321.6	623.9	755.6	941.6	747.9	422.4	453.4	131.7	50.4	38.7
85°	81.4	85.2	213.1	298.4	271.2	174.4	155.0	391.4	54.2	34.9	31.0
87.5°	38.7	38.7	65.9	131.7	112.4	93.0	127.9	228.6	11.6	11.6	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4	1166.4
2.5°	1158.6	1150.9	1119.9	1104.4	1088.9	1061.7	1046.2	1034.6	1030.7	1023.0	1026.9
5°	1139.2	1112.1	1061.7	1019.1	968.7	914.5	883.5	848.6	813.7	806.0	802.1
7.5°	1123.7	1085.0	1007.5	926.1	840.9	747.9	662.6	608.4	554.1	546.4	542.5
10°	1116.0	1061.7	949.4	829.2	689.7	561.9	468.9	406.9	368.1	348.7	341.0
12.5°	1116.0	1050.1	902.9	732.4	554.1	414.6	321.6	259.6	232.5	220.9	217.0
15°	1123.7	1042.4	848.6	620.0	434.0	294.5	224.7	193.7	182.1	178.2	182.1
17.5°	1143.1	1042.4	798.2	523.1	329.4	217.0	178.2	174.4	170.5	170.5	170.5
20°	1170.2	1050.1	744.0	437.9	244.1	178.2	166.6	166.6	166.6	166.6	166.6
22.5°	1201.2	1054.0	682.0	356.5	197.6	162.7	158.9	158.9	158.9	158.9	158.9
25°	1232.2	1061.7	616.1	279.0	162.7	155.0	151.1	155.0	155.0	155.0	155.0
27.5°	1271.0	1069.5	550.2	220.9	151.1	147.2	147.2	147.2	147.2	147.2	147.2
30°	1305.9	1069.5	488.2	182.1	143.4	139.5	139.5	139.5	139.5	139.5	139.5
32.5°	1348.5	1065.6	422.4	151.1	135.6	131.7	127.9	131.7	131.7	131.7	127.9
35°	1410.5	1065.6	348.7	139.5	127.9	124.0	120.1	120.1	120.1	120.1	120.1
37.5°	1491.9	1081.1	275.1	127.9	116.2	112.4	112.4	112.4	108.5	108.5	108.5
40°	1612.0	1108.2	220.9	120.1	108.5	104.6	100.7	100.7	96.9	93.0	93.0
42.5°	1755.3	1139.2	182.1	112.4	100.7	96.9	93.0	89.1	85.2	81.4	81.4
45°	1898.7	1162.5	143.4	104.6	93.0	89.1	85.2	81.4	73.6	69.7	65.9
47.5°	2049.8	1162.5	116.2	96.9	89.1	81.4	77.5	69.7	62.0	54.2	54.2
50°	2139.0	1119.9	104.6	89.1	81.4	73.6	69.7	58.1	50.4	42.6	42.6
52.5°	2189.3	1061.7	96.9	81.4	77.5	69.7	58.1	50.4	38.7	31.0	31.0
55°	2232.0	1034.6	89.1	77.5	69.7	62.0	50.4	38.7	27.1	23.2	23.2
57.5°	2286.2	992.0	81.4	69.7	62.0	54.2	42.6	31.0	19.4	15.5	15.5
60°	2332.7	933.9	73.6	65.9	58.1	46.5	34.9	23.2	11.6	7.7	7.7
62.5°	2356.0	844.7	65.9	58.1	50.4	38.7	27.1	15.5	7.7	3.9	3.9
65°	2290.1	709.1	62.0	50.4	42.6	31.0	19.4	7.7	3.9	0.0	0.0
67.5°	1871.6	457.2	50.4	42.6	34.9	23.2	15.5	7.7	3.9	0.0	0.0
70°	961.0	193.7	42.6	34.9	31.0	19.4	11.6	3.9	0.0	0.0	0.0
72.5°	251.9	69.7	34.9	31.0	27.1	19.4	7.7	3.9	0.0	0.0	0.0
75°	77.5	46.5	27.1	23.2	23.2	15.5	7.7	3.9	0.0	0.0	0.0
77.5°	54.2	34.9	23.2	19.4	19.4	15.5	7.7	3.9	0.0	0.0	0.0
80°	42.6	31.0	19.4	15.5	19.4	19.4	7.7	3.9	0.0	0.0	0.0
82.5°	34.9	27.1	15.5	15.5	19.4	19.4	11.6	3.9	0.0	0.0	0.0
85°	27.1	19.4	15.5	15.5	19.4	15.5	7.7	3.9	0.0	0.0	0.0
87.5°	7.7	7.7	3.9	3.9	3.9	7.7	7.7	3.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)