

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: P402621

Luminaire Tested: **GAN-AF-07-LED-U-SL4-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402621
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-07-LED-U-SL4-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 5488 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

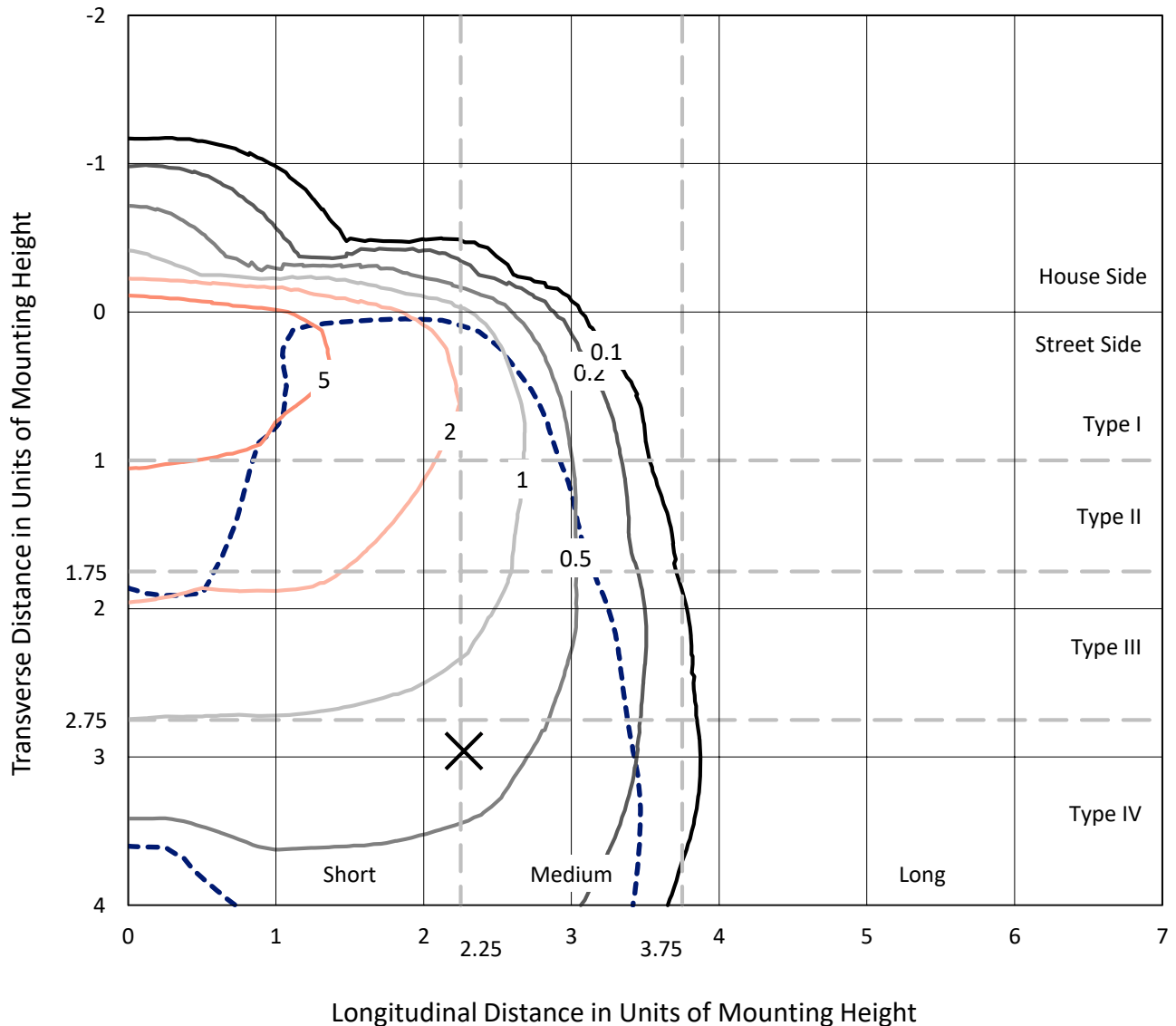
Input Watts (W): 138.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

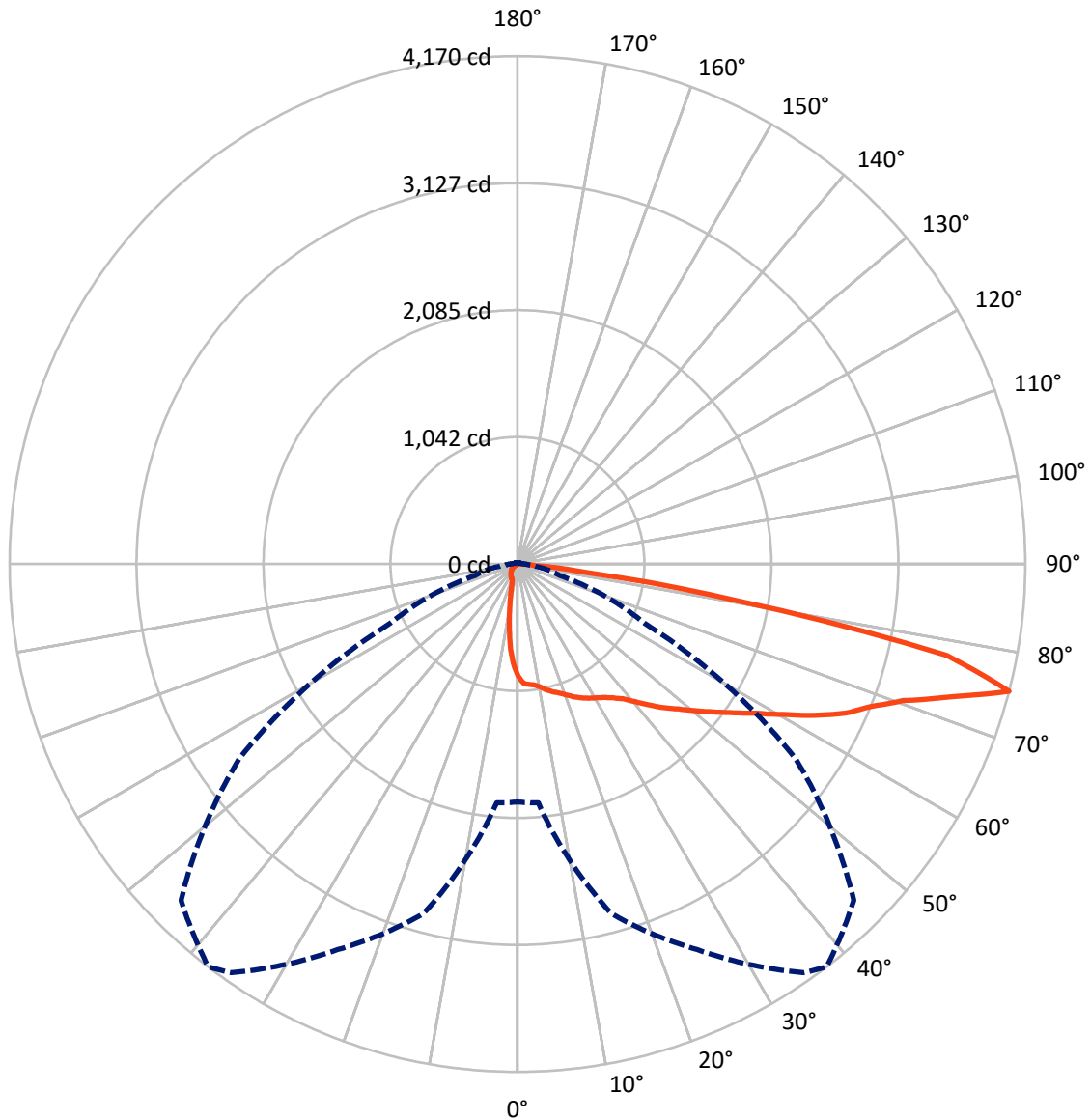
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 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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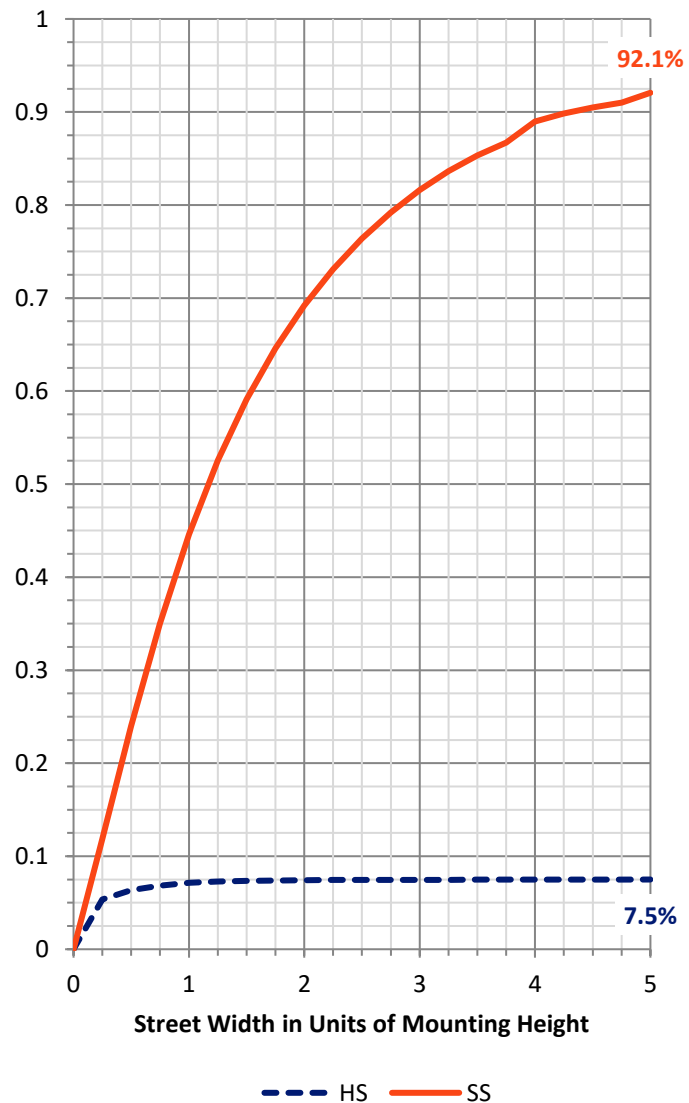
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.8	0.0	414.8
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	5073.2	0.0	5073.2
	% Fixture	92.4	0.0	92.4
Total	Lumens	5488.0	0.0	5488.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.4
10°-20°	198.2	3.6
20°-30°	324.4	5.9
30°-40°	482.0	8.8
40°-50°	721.6	13.1
50°-60°	1036.8	18.9
60°-70°	1389.5	25.3
70°-80°	1125.6	20.5
80°-90°	131.6	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°	5488.0	100.0
0°-180°	5488.0	100.0



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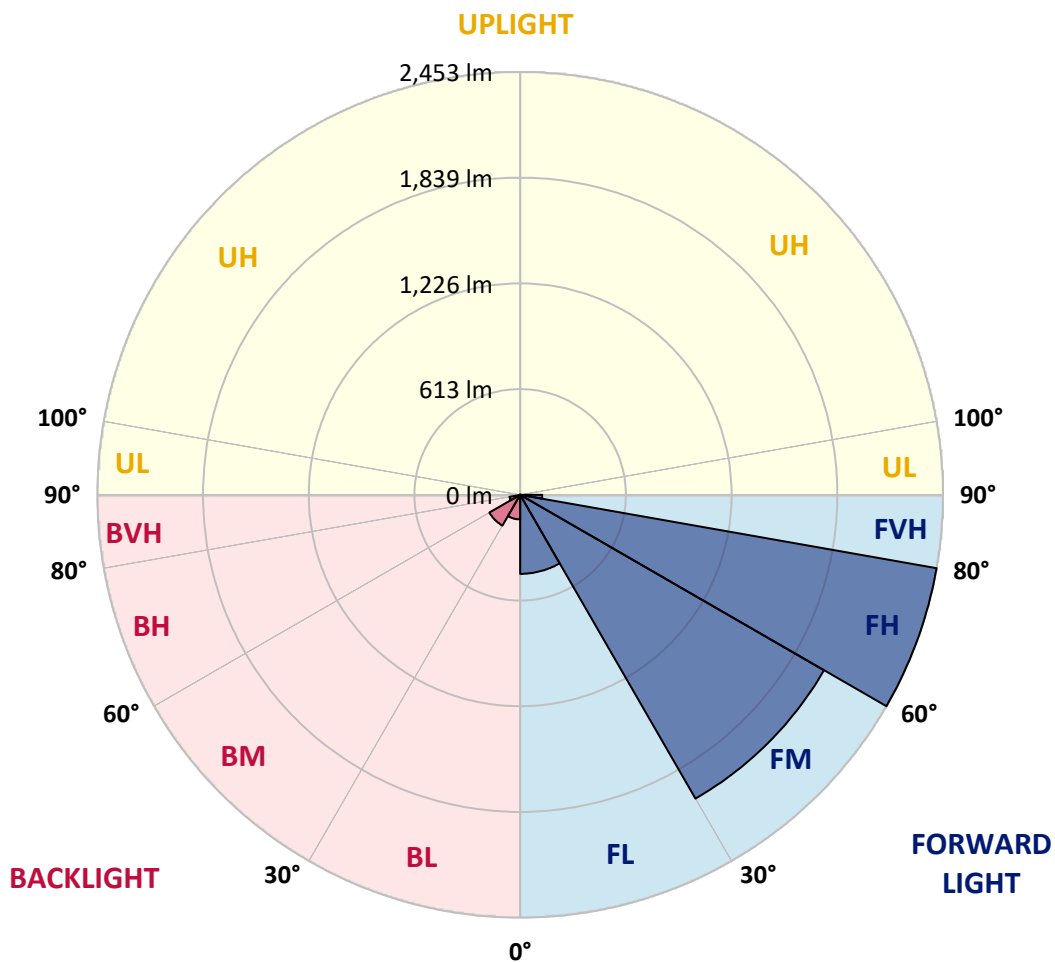
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.4	8.4			
FM (30°-60°)	2034.5	37.1			
FH (60°-80°)	2452.5	44.7			G2/5000
FVH (80°-90°)	127.9	2.3			G2/225
BL (0°-30°)	142.5	2.6	B1/500		
BM (30°-60°)	206.0	3.8	B0/220		
BH (60°-80°)	62.6	1.1	B0/110		G0/110
BVH (80°-90°)	3.7	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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	993.4	990.3	990.3	984.2	981.1	981.1	968.9	965.8	953.5	941.3	925.9
5°	996.4	996.4	993.4	996.4	993.4	993.4	987.2	984.2	971.9	947.4	919.8
7.5°	1014.8	1011.8	1008.7	1008.7	1002.6	1002.6	987.2	981.1	968.9	953.5	913.7
10°	1014.8	1014.8	1021.0	1027.1	1027.1	1027.1	1011.8	993.4	975.0	959.7	913.7
12.5°	1011.8	1011.8	1021.0	1042.4	1057.8	1060.8	1051.6	1027.1	996.4	968.9	925.9
15°	1008.7	1011.8	1024.0	1054.7	1082.3	1088.4	1085.4	1067.0	1027.1	987.2	941.3
17.5°	1014.8	1021.0	1036.3	1079.2	1109.9	1113.0	1116.0	1103.8	1060.8	1011.8	965.8
20°	1024.0	1027.1	1060.8	1113.0	1143.6	1146.7	1143.6	1125.2	1088.4	1042.4	993.4
22.5°	1039.4	1045.5	1088.4	1146.7	1180.4	1183.5	1174.3	1143.6	1103.8	1067.0	1024.0
25°	1070.0	1076.2	1128.3	1186.5	1211.1	1217.2	1208.0	1171.2	1119.1	1094.6	1057.8
27.5°	1106.8	1116.0	1171.2	1226.4	1241.7	1247.9	1238.7	1195.7	1140.5	1131.3	1100.7
30°	1162.0	1168.1	1220.3	1266.3	1272.4	1275.5	1269.3	1220.3	1171.2	1171.2	1143.6
32.5°	1229.5	1238.7	1272.4	1306.1	1303.0	1306.1	1303.0	1250.9	1208.0	1232.5	1195.7
35°	1309.2	1300.0	1339.8	1355.2	1342.9	1349.0	1352.1	1300.0	1263.2	1312.2	1266.3
37.5°	1370.5	1370.5	1392.0	1407.3	1398.1	1404.2	1413.4	1364.4	1339.8	1425.7	1373.6
40°	1422.6	1422.6	1437.9	1468.6	1471.7	1483.9	1502.3	1444.1	1444.1	1557.5	1499.3
42.5°	1462.5	1468.6	1480.9	1520.7	1560.6	1582.0	1600.4	1542.2	1569.8	1726.2	1664.8
45°	1502.3	1508.5	1514.6	1572.9	1652.6	1683.2	1720.0	1664.8	1713.9	1904.0	1836.5
47.5°	1551.4	1551.4	1548.3	1640.3	1738.4	1778.3	1842.7	1796.7	1885.6	2121.7	2017.4
50°	1612.7	1606.6	1579.0	1710.8	1842.7	1891.7	1989.8	1943.8	2078.7	2348.5	2152.3
52.5°	1683.2	1667.9	1625.0	1784.4	1956.1	2017.4	2143.1	2112.5	2281.1	2529.4	2229.0
55°	1772.1	1747.6	1689.4	1873.3	2094.1	2155.4	2302.6	2321.0	2474.3	2633.7	2308.7
57.5°	1885.6	1839.6	1775.2	1983.7	2253.5	2311.8	2483.4	2523.3	2603.0	2734.9	2409.9
60°	1999.0	1950.0	1891.7	2133.9	2428.3	2508.0	2676.6	2691.9	2707.3	2875.9	2520.2
62.5°	2100.2	2072.6	2038.9	2302.6	2667.4	2737.9	2842.2	2820.7	2839.1	3041.5	2609.2
65°	2229.0	2201.4	2195.2	2495.7	2894.3	2955.6	2967.9	2977.1	3044.5	3204.0	2655.1
67.5°	2339.3	2330.2	2385.3	2725.7	3099.7	3124.2	3170.2	3222.4	3259.1	3277.5	2348.5
70°	2495.7	2480.4	2603.0	2955.6	3305.1	3357.3	3519.8	3571.9	3317.4	2685.8	1437.9
72.5°	2511.0	2538.6	2872.8	3194.8	3611.7	3725.2	3927.5	3648.5	2578.5	1441.0	447.6
75°	1953.0	1968.4	2967.9	3492.2	4096.2	4169.7	3906.1	2790.0	1152.8	355.7	101.2
77.5°	1088.4	1146.7	1983.7	3240.7	3722.1	3605.6	2670.5	1232.5	297.4	79.7	52.1
80°	797.2	824.8	956.6	1854.9	2106.3	1851.9	1113.0	469.1	162.5	55.2	36.8
82.5°	236.1	254.5	493.6	597.9	745.0	591.7	334.2	358.7	104.2	39.9	30.7
85°	64.4	67.5	168.6	236.1	214.6	138.0	122.6	309.7	42.9	27.6	24.5
87.5°	30.7	30.7	52.1	104.2	88.9	73.6	101.2	180.9	9.2	9.2	6.1
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°	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9	922.9
2.5°	916.7	910.6	886.1	873.8	861.5	840.1	827.8	818.6	815.6	809.4	812.5
5°	901.4	879.9	840.1	806.4	766.5	723.6	699.0	671.5	643.9	637.7	634.7
7.5°	889.1	858.5	797.2	732.8	665.3	591.7	524.3	481.4	438.4	432.3	429.2
10°	883.0	840.1	751.2	656.1	545.7	444.6	371.0	321.9	291.3	275.9	269.8
12.5°	883.0	830.9	714.4	579.5	438.4	328.1	254.5	205.4	184.0	174.8	171.7
15°	889.1	824.8	671.5	490.6	343.4	233.0	177.8	153.3	144.1	141.0	144.1
17.5°	904.5	824.8	631.6	413.9	260.6	171.7	141.0	138.0	134.9	134.9	134.9
20°	925.9	830.9	588.7	346.5	193.2	141.0	131.8	131.8	131.8	131.8	131.8
22.5°	950.5	833.9	539.6	282.1	156.4	128.8	125.7	125.7	125.7	125.7	125.7
25°	975.0	840.1	487.5	220.8	128.8	122.6	119.6	122.6	122.6	122.6	122.6
27.5°	1005.6	846.2	435.4	174.8	119.6	116.5	116.5	116.5	116.5	116.5	116.5
30°	1033.2	846.2	386.3	144.1	113.4	110.4	110.4	110.4	110.4	110.4	110.4
32.5°	1067.0	843.1	334.2	119.6	107.3	104.2	101.2	104.2	104.2	104.2	101.2
35°	1116.0	843.1	275.9	110.4	101.2	98.1	95.0	95.0	95.0	95.0	95.0
37.5°	1180.4	855.4	217.7	101.2	92.0	88.9	88.9	88.9	85.8	85.8	85.8
40°	1275.5	876.9	174.8	95.0	85.8	82.8	79.7	79.7	76.6	73.6	73.6
42.5°	1388.9	901.4	144.1	88.9	79.7	76.6	73.6	70.5	67.5	64.4	64.4
45°	1502.3	919.8	113.4	82.8	73.6	70.5	67.5	64.4	58.3	55.2	52.1
47.5°	1621.9	919.8	92.0	76.6	70.5	64.4	61.3	55.2	49.1	42.9	42.9
50°	1692.4	886.1	82.8	70.5	64.4	58.3	55.2	46.0	39.9	33.7	33.7
52.5°	1732.3	840.1	76.6	64.4	61.3	55.2	46.0	39.9	30.7	24.5	24.5
55°	1766.0	818.6	70.5	61.3	55.2	49.1	39.9	30.7	21.5	18.4	18.4
57.5°	1808.9	784.9	64.4	55.2	49.1	42.9	33.7	24.5	15.3	12.3	12.3
60°	1845.7	738.9	58.3	52.1	46.0	36.8	27.6	18.4	9.2	6.1	6.1
62.5°	1864.1	668.4	52.1	46.0	39.9	30.7	21.5	12.3	6.1	3.1	3.1
65°	1812.0	561.1	49.1	39.9	33.7	24.5	15.3	6.1	3.1	0.0	0.0
67.5°	1480.9	361.8	39.9	33.7	27.6	18.4	12.3	6.1	3.1	0.0	0.0
70°	760.4	153.3	33.7	27.6	24.5	15.3	9.2	3.1	0.0	0.0	0.0
72.5°	199.3	55.2	27.6	24.5	21.5	15.3	6.1	3.1	0.0	0.0	0.0
75°	61.3	36.8	21.5	18.4	18.4	12.3	6.1	3.1	0.0	0.0	0.0
77.5°	42.9	27.6	18.4	15.3	15.3	12.3	6.1	3.1	0.0	0.0	0.0
80°	33.7	24.5	15.3	12.3	15.3	15.3	6.1	3.1	0.0	0.0	0.0
82.5°	27.6	21.5	12.3	12.3	15.3	15.3	9.2	3.1	0.0	0.0	0.0
85°	21.5	15.3	12.3	12.3	15.3	12.3	6.1	3.1	0.0	0.0	0.0
87.5°	6.1	6.1	3.1	3.1	3.1	6.1	6.1	3.1	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)