

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: P402625

Luminaire Tested: **GAN-AF-08-LED-U-SL2-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL2-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6312 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

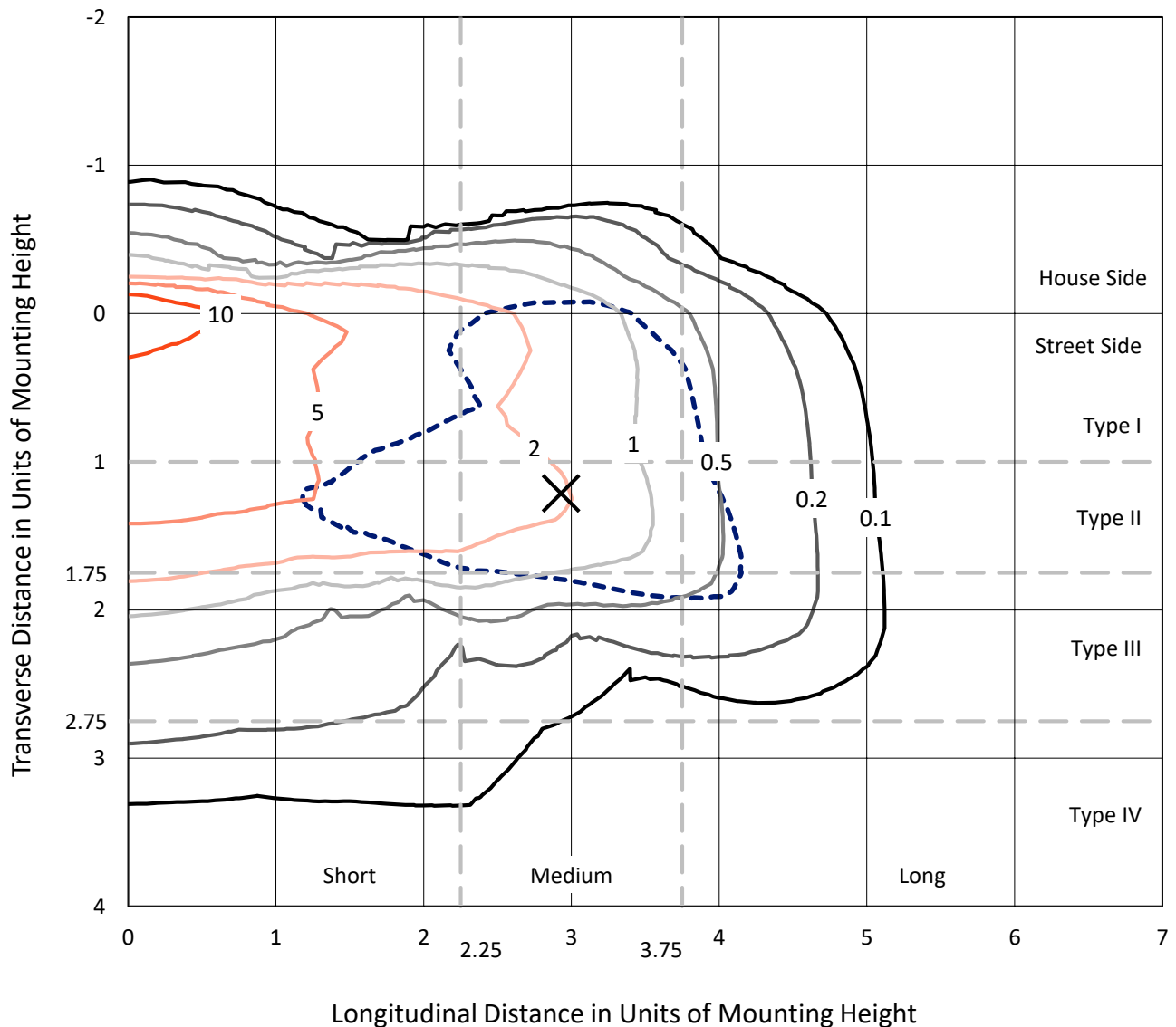
Input Watts (W): 158.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

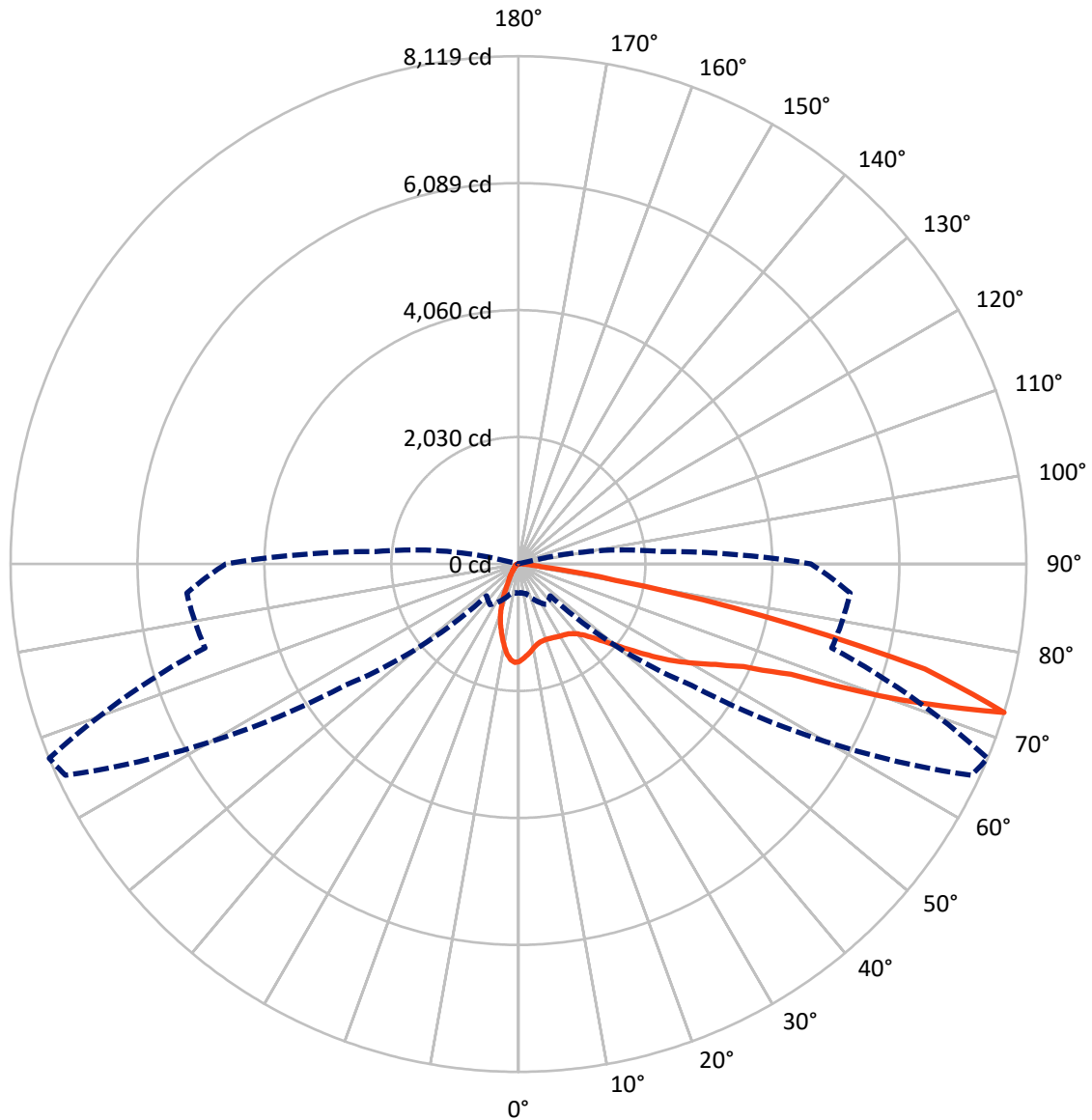
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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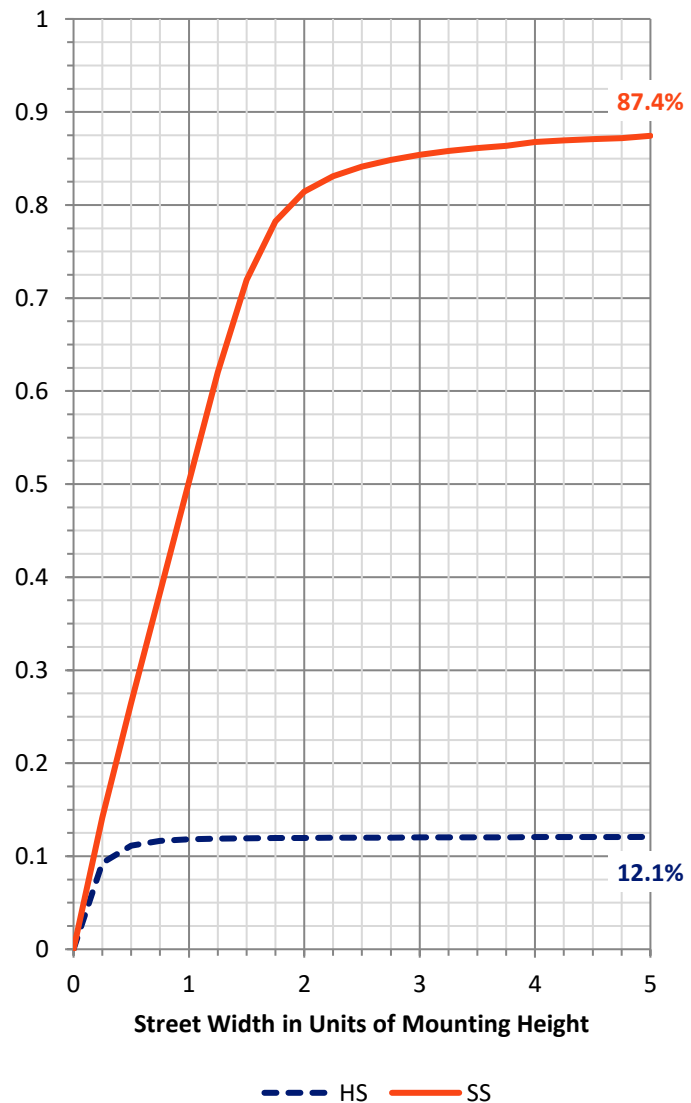
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.9	0.0	769.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5542.1	0.0	5542.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	6312.0	0.0	6312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.0
10°-20°	271.4	4.3
20°-30°	383.3	6.1
30°-40°	549.1	8.7
40°-50°	828.4	13.1
50°-60°	1328.1	21.0
60°-70°	1570.0	24.9
70°-80°	1146.9	18.2
80°-90°	106.0	1.7
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°	6312.0	100.0
0°-180°	6312.0	100.0

Coefficient of Utilization



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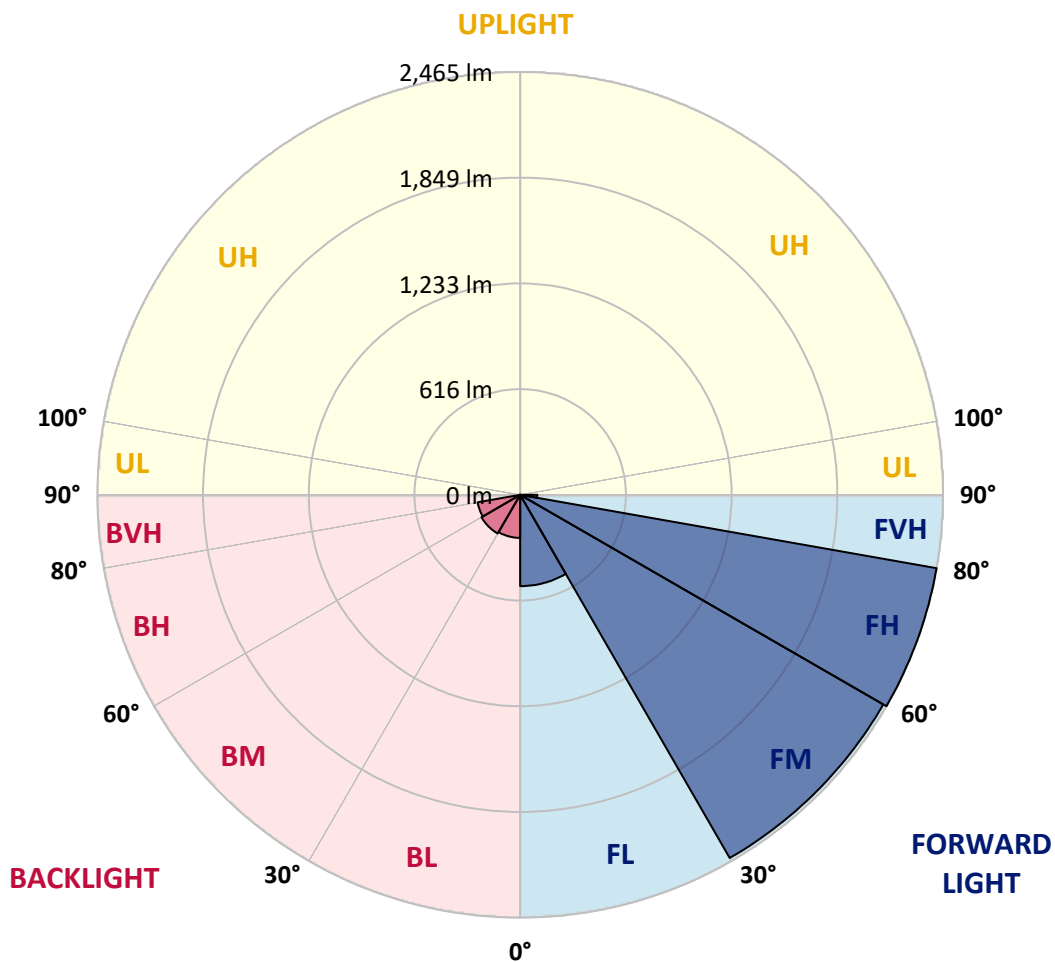
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.4	8.4			
FM	(30°-60°)	2444.9	38.7			
FH	(60°-80°)	2465.4	39.1			G2/5000
FVH	(80°-90°)	99.4	1.6			G1/100
BL	(0°-30°)	251.0	4.0	B1/500		
BM	(30°-60°)	260.7	4.1	B1/1000		
BH	(60°-80°)	251.5	4.0	B1/500		G1/500
BVH	(80°-90°)	6.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1462.6	1469.6	1469.6	1480.0	1483.5	1486.9	1507.8	1514.7	1511.3	1532.1	1546.0
5°	1365.3	1365.3	1372.3	1389.7	1403.6	1414.0	1438.3	1459.1	1462.6	1486.9	1525.2
7.5°	1285.4	1292.4	1292.4	1302.8	1323.7	1341.0	1372.3	1407.0	1414.0	1445.2	1490.4
10°	1222.9	1219.4	1229.9	1240.3	1257.6	1275.0	1309.8	1348.0	1361.9	1396.6	1448.7
12.5°	1163.8	1167.3	1170.8	1188.2	1209.0	1226.4	1261.1	1306.3	1320.2	1365.3	1427.9
15°	1129.1	1129.1	1132.6	1143.0	1163.8	1188.2	1229.9	1278.5	1295.9	1348.0	1420.9
17.5°	1118.7	1118.7	1115.2	1118.7	1136.0	1160.4	1209.0	1268.1	1285.4	1341.0	1431.4
20°	1122.2	1122.2	1115.2	1111.7	1122.2	1146.5	1202.1	1264.6	1285.4	1351.4	1459.1
22.5°	1143.0	1139.5	1132.6	1122.2	1122.2	1146.5	1205.5	1271.5	1292.4	1365.3	1483.5
25°	1195.1	1181.2	1174.3	1153.4	1139.5	1149.9	1209.0	1282.0	1302.8	1375.8	1518.2
27.5°	1243.7	1240.3	1240.3	1219.4	1174.3	1163.8	1222.9	1299.3	1316.7	1389.7	1563.4
30°	1327.1	1320.2	1320.2	1295.9	1240.3	1191.6	1236.8	1313.2	1334.1	1400.1	1608.5
32.5°	1431.4	1434.8	1427.9	1396.6	1327.1	1243.7	1261.1	1330.6	1348.0	1407.0	1653.7
35°	1546.0	1549.5	1566.8	1532.1	1441.8	1323.7	1299.3	1361.9	1372.3	1420.9	1688.4
37.5°	1639.8	1639.8	1685.0	1691.9	1580.7	1420.9	1361.9	1414.0	1410.5	1438.3	1723.2
40°	1744.0	1744.0	1796.1	1837.8	1757.9	1552.9	1441.8	1476.5	1469.6	1476.5	1771.8
42.5°	1855.2	1862.1	1917.7	1990.7	1949.0	1723.2	1556.4	1573.8	1559.9	1539.1	1823.9
45°	1962.9	1980.3	2056.7	2154.0	2150.5	1924.7	1705.8	1709.3	1685.0	1643.3	1931.6
47.5°	2088.0	2101.9	2209.6	2331.2	2362.4	2154.0	1896.9	1883.0	1851.7	1785.7	2077.5
50°	2299.9	2306.8	2383.3	2525.7	2584.8	2407.6	2112.3	2088.0	2053.2	1969.8	2275.6
52.5°	2553.5	2550.0	2584.8	2734.2	2894.0	2702.9	2393.7	2359.0	2303.4	2195.7	2518.8
55°	2664.7	2675.1	2727.2	2907.9	3217.1	3133.7	2709.8	2661.2	2602.1	2463.2	2768.9
57.5°	2470.1	2470.1	2574.3	2859.2	3397.7	3703.4	3064.2	2987.8	2914.8	2737.6	3053.8
60°	1976.8	1973.3	2098.4	2442.3	3262.2	4200.3	3557.5	3328.2	3217.1	2980.8	3338.7
62.5°	1386.2	1358.4	1414.0	1702.3	2671.6	4207.2	4478.2	3682.6	3533.2	3231.0	3640.9
65°	993.6	976.2	986.7	1066.6	1532.1	3804.2	5496.1	4221.1	3953.6	3495.0	4005.7
67.5°	813.0	792.1	788.6	885.9	882.4	2518.8	5801.8	5284.2	4700.5	3880.6	4419.1
70°	649.7	639.2	635.8	774.7	816.4	819.9	5409.3	7556.3	6521.0	4453.9	4971.5
72.5°	462.1	462.1	489.9	642.7	792.1	719.2	3383.8	7990.6	8119.1	5186.9	5322.4
75°	277.9	274.5	343.9	510.7	764.3	694.8	1045.7	6593.9	6712.1	4856.9	4116.9
77.5°	132.0	132.0	191.1	343.9	677.5	653.1	597.6	3943.2	3971.0	2949.6	2088.0
80°	52.1	52.1	83.4	211.9	514.2	646.2	555.9	1625.9	1566.8	813.0	288.4
82.5°	20.8	20.8	34.7	118.1	319.6	531.5	493.3	538.5	403.0	93.8	76.4
85°	3.5	6.9	13.9	69.5	180.7	281.4	399.5	333.5	211.9	55.6	55.6
87.5°	0.0	3.5	6.9	20.8	52.1	118.1	201.5	152.9	97.3	17.4	24.3
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°	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9	1559.9
2.5°	1549.5	1556.4	1570.3	1577.3	1580.7	1566.8	1566.8	1552.9	1549.5	1549.5	1549.5
5°	1532.1	1546.0	1556.4	1532.1	1493.9	1445.2	1389.7	1354.9	1320.2	1327.1	1313.2
7.5°	1511.3	1528.6	1514.7	1434.8	1337.5	1247.2	1149.9	1094.4	1028.3	1021.4	1004.0
10°	1480.0	1497.4	1445.2	1306.3	1156.9	1024.9	882.4	795.6	726.1	670.5	656.6
12.5°	1473.0	1483.5	1361.9	1170.8	976.2	788.6	604.5	441.2	343.9	295.3	295.3
15°	1476.5	1476.5	1285.4	1035.3	781.7	521.1	291.8	211.9	177.2	173.7	170.2
17.5°	1493.9	1473.0	1209.0	903.3	573.2	271.0	173.7	159.8	152.9	152.9	152.9
20°	1525.2	1473.0	1143.0	764.3	361.3	170.2	149.4	142.4	139.0	135.5	135.5
22.5°	1556.4	1459.1	1059.6	604.5	208.4	142.4	132.0	128.5	121.6	118.1	118.1
25°	1591.2	1445.2	979.7	434.3	145.9	125.1	114.6	107.7	100.8	97.3	97.3
27.5°	1622.4	1431.4	885.9	274.5	128.5	111.2	100.8	90.3	79.9	76.4	76.4
30°	1643.3	1407.0	795.6	173.7	114.6	100.8	86.9	73.0	62.5	59.1	59.1
32.5°	1646.7	1375.8	684.4	128.5	104.2	86.9	69.5	59.1	52.1	48.6	48.6
35°	1636.3	1337.5	562.8	114.6	93.8	76.4	59.1	48.6	41.7	41.7	41.7
37.5°	1622.4	1299.3	437.7	104.2	83.4	66.0	48.6	41.7	38.2	34.7	34.7
40°	1619.0	1261.1	291.8	97.3	76.4	55.6	41.7	34.7	31.3	27.8	27.8
42.5°	1629.4	1233.3	205.0	90.3	66.0	48.6	38.2	31.3	24.3	24.3	20.8
45°	1681.5	1226.4	149.4	83.4	59.1	41.7	31.3	24.3	20.8	17.4	17.4
47.5°	1768.3	1240.3	121.6	76.4	52.1	34.7	27.8	20.8	17.4	13.9	13.9
50°	1893.4	1292.4	111.2	69.5	41.7	31.3	20.8	17.4	13.9	13.9	13.9
52.5°	2088.0	1375.8	104.2	62.5	34.7	24.3	17.4	13.9	10.4	10.4	10.4
55°	2296.4	1473.0	100.8	55.6	31.3	20.8	13.9	10.4	10.4	6.9	6.9
57.5°	2536.1	1601.6	93.8	48.6	27.8	20.8	13.9	10.4	6.9	6.9	6.9
60°	2838.4	1775.3	83.4	41.7	24.3	17.4	10.4	6.9	6.9	6.9	6.9
62.5°	3151.1	1955.9	73.0	34.7	20.8	13.9	10.4	6.9	6.9	6.9	6.9
65°	3533.2	2164.4	62.5	27.8	17.4	13.9	10.4	6.9	6.9	3.5	3.5
67.5°	3995.3	2376.3	48.6	24.3	17.4	10.4	10.4	6.9	6.9	3.5	3.5
70°	4585.9	2647.3	41.7	20.8	13.9	10.4	10.4	6.9	6.9	3.5	3.5
72.5°	4676.2	2286.0	34.7	20.8	13.9	10.4	10.4	6.9	6.9	3.5	3.5
75°	3196.2	1090.9	31.3	17.4	13.9	13.9	10.4	6.9	6.9	3.5	3.5
77.5°	1393.1	257.1	27.8	17.4	13.9	13.9	13.9	10.4	6.9	3.5	3.5
80°	163.3	48.6	24.3	17.4	13.9	17.4	13.9	10.4	6.9	3.5	3.5
82.5°	66.0	31.3	24.3	20.8	17.4	13.9	13.9	10.4	6.9	3.5	3.5
85°	48.6	24.3	24.3	24.3	17.4	10.4	10.4	6.9	6.9	3.5	3.5
87.5°	24.3	10.4	6.9	6.9	6.9	6.9	6.9	3.5	3.5	3.5	3.5
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)