

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: P317446

Luminaire Tested: **GAN-SA2C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15077 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

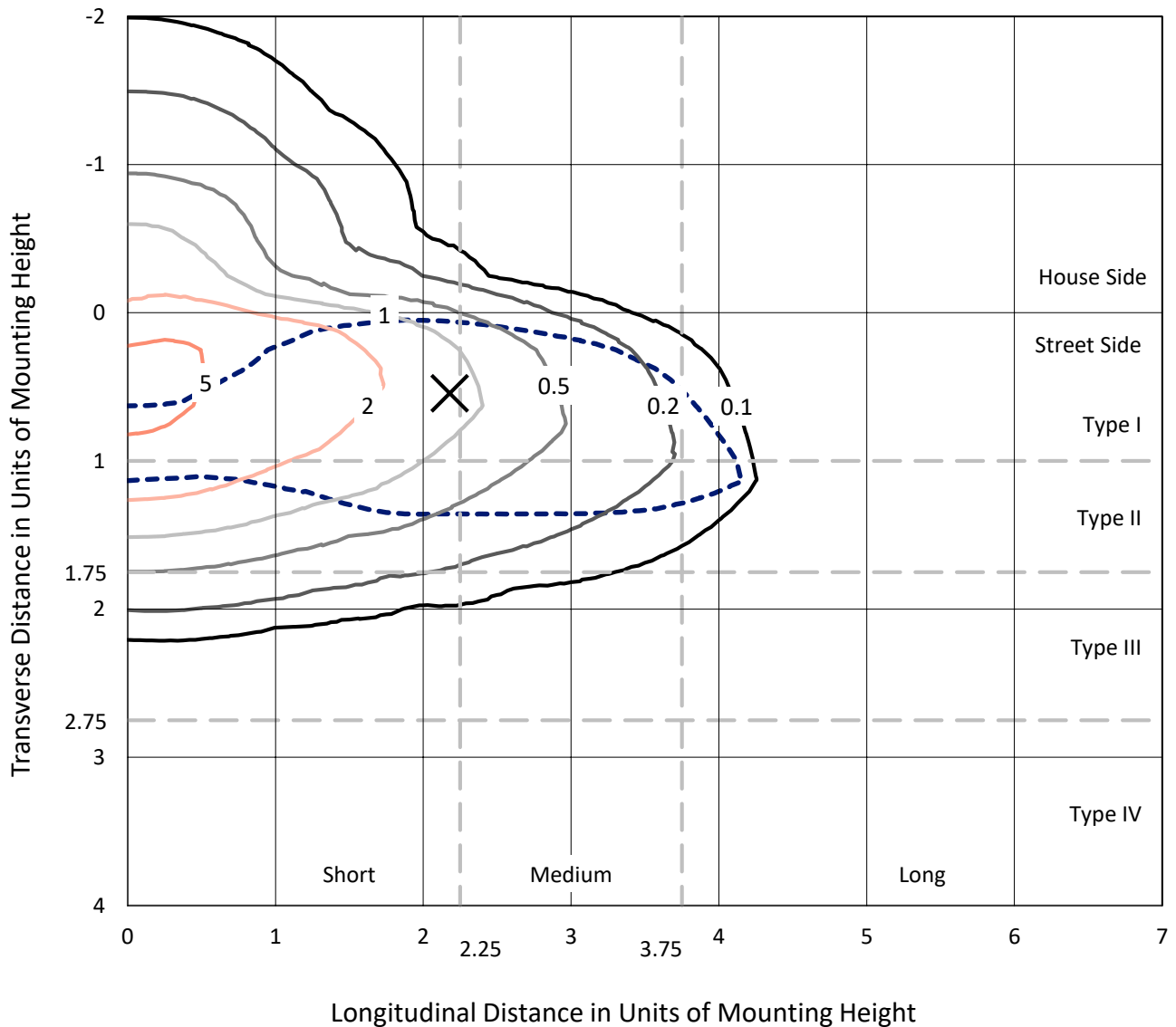
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317446
 CATALOG NUMBER: GAN-SA2C-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

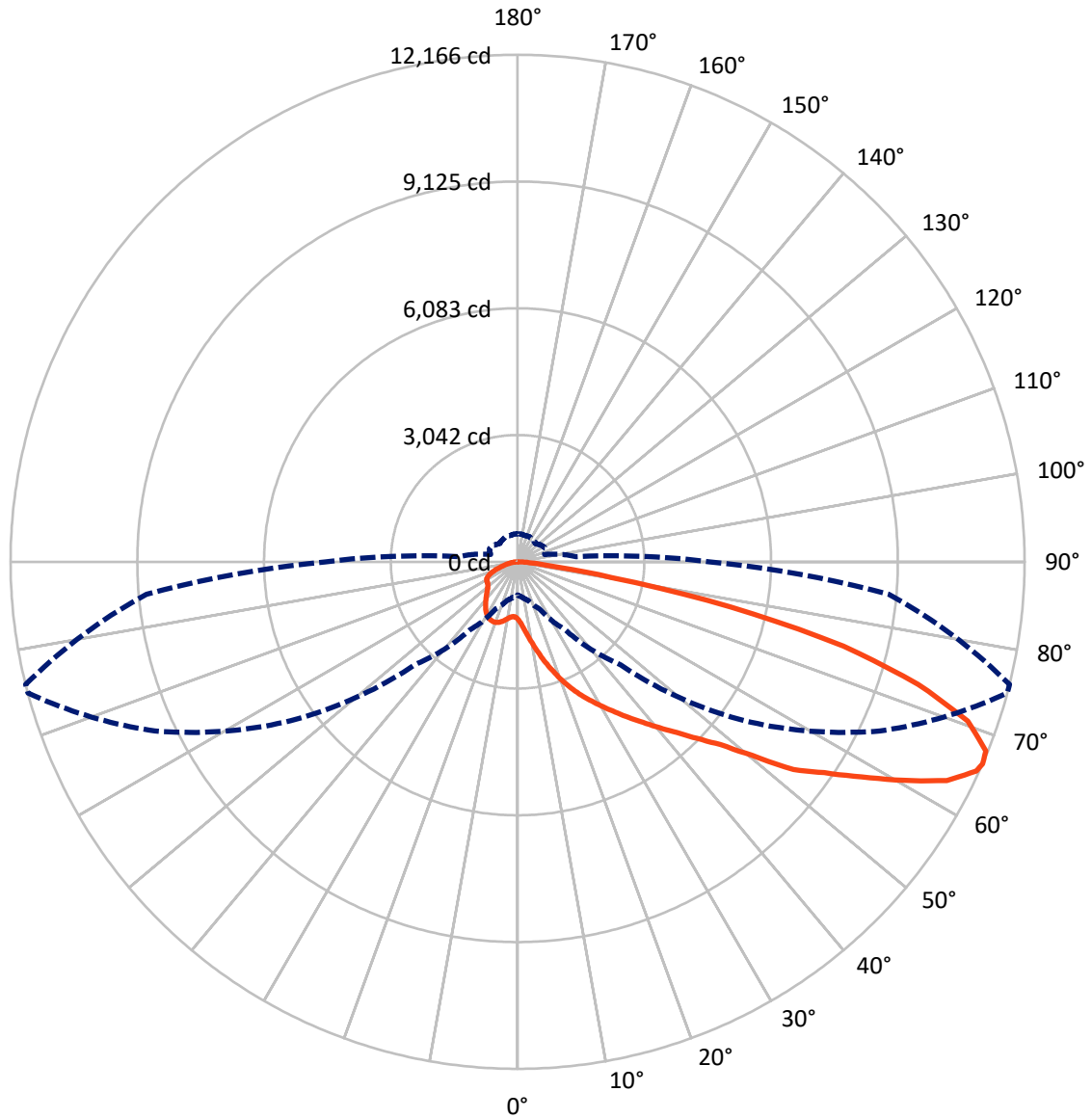
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

REPORT NUMBER: P317446
CATALOG NUMBER: GAN-SA2C-740-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GAN-SA2C-740-U-T2R

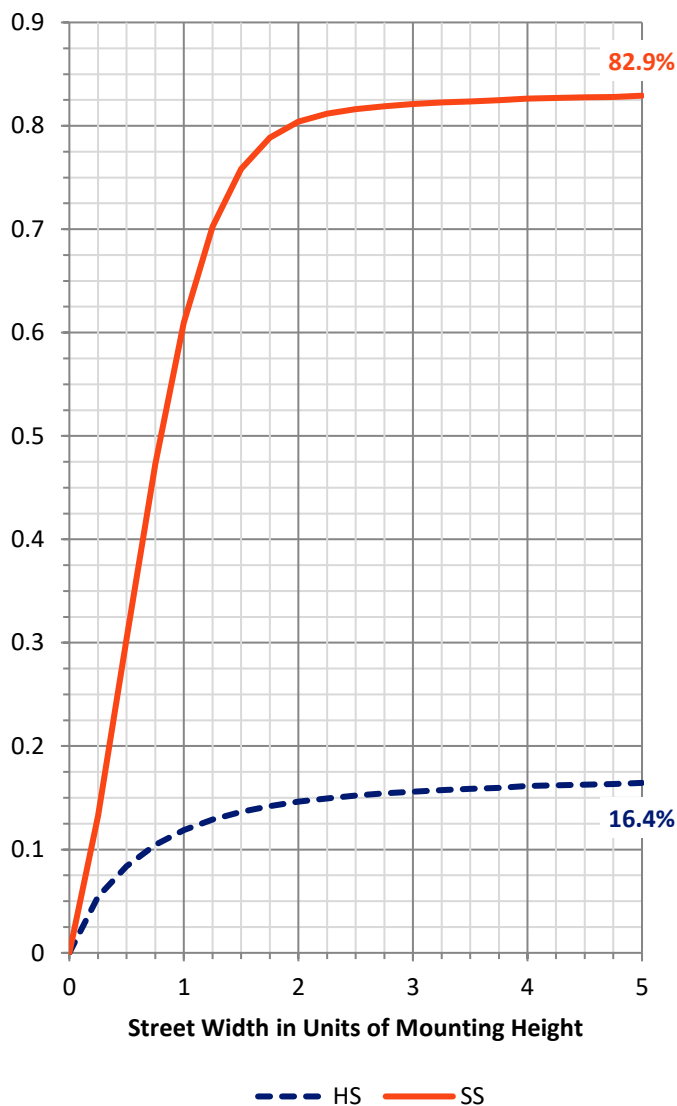
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2536.9	0.0	2536.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	12540.1	0.0	12540.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	15077.0	0.0	15077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.1
10°-20°	657.5	4.4
20°-30°	1277.7	8.5
30°-40°	2085.5	13.8
40°-50°	2849.2	18.9
50°-60°	3318.8	22.0
60°-70°	2975.4	19.7
70°-80°	1503.6	10.0
80°-90°	242.8	1.6
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°	15077.0	100.0
0°-180°	15077.0	100.0

Coefficient of Utilization



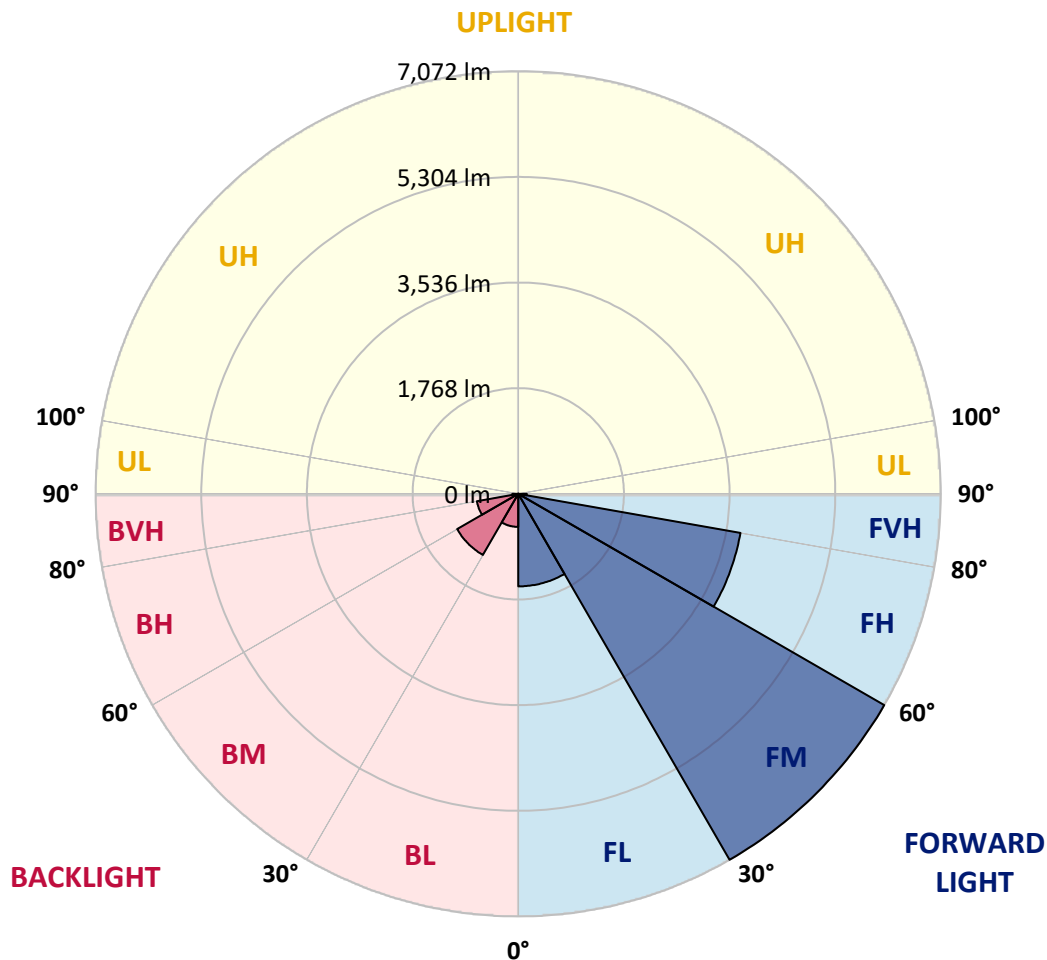
REPORT NUMBER: P317446
 CATALOG NUMBER: GAN-SA2C-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.4	10.3			
FM (30°-60°)	7072.2	46.9			
FH (60°-80°)	3776.1	25.0			G2/5000
FVH (80°-90°)	143.4	1.0			G2/225
BL (0°-30°)	553.3	3.7	B2/1000		
BM (30°-60°)	1181.4	7.8	B2/2500		
BH (60°-80°)	702.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	99.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P317446
 CATALOG NUMBER: GAN-SA2C-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1827.8	1800.2	1797.6	1757.2	1748.0	1670.7	1613.9	1554.5	1486.9	1473.6	1420.4
5°	2347.8	2345.3	2310.0	2243.9	2192.2	2060.2	1929.7	1791.5	1640.0	1615.4	1495.6
7.5°	2815.7	2811.6	2784.5	2713.3	2638.6	2476.3	2290.0	2078.1	1832.4	1796.1	1597.5
10°	3170.9	3169.4	3160.1	3107.9	3044.5	2888.9	2683.1	2393.9	2056.1	2006.4	1724.9
12.5°	3445.2	3448.3	3454.5	3436.0	3405.8	3273.3	3062.4	2728.7	2294.6	2245.5	1866.7
15°	3631.0	3640.3	3672.0	3698.1	3714.0	3632.6	3428.4	3071.1	2561.8	2502.9	2023.8
17.5°	3724.7	3735.0	3789.7	3868.5	3941.2	3933.0	3770.8	3397.6	2818.2	2761.4	2192.8
20°	3805.6	3813.3	3874.7	3969.4	4097.9	4154.7	4063.6	3711.9	3099.2	3031.7	2371.9
22.5°	4040.0	4049.7	4068.2	4121.9	4235.5	4340.0	4295.9	4009.3	3356.7	3293.7	2541.8
25°	4492.5	4504.3	4464.3	4418.8	4440.3	4513.0	4521.2	4280.6	3617.7	3546.6	2724.6
27.5°	5037.6	5054.5	4986.4	4869.2	4766.8	4738.7	4729.0	4502.7	3867.0	3784.6	2905.2
30°	5571.5	5600.6	5512.1	5360.1	5172.2	5040.2	4942.4	4720.3	4112.7	4033.9	3075.7
32.5°	6093.0	6081.3	5952.8	5804.4	5584.3	5418.9	5182.5	4953.7	4389.1	4298.5	3245.1
35°	6450.3	6454.4	6335.1	6159.1	5949.2	5822.3	5503.9	5205.5	4671.1	4587.7	3437.6
37.5°	6754.3	6735.4	6600.3	6436.0	6255.3	6201.0	5880.1	5482.9	4976.7	4885.6	3642.3
40°	6855.7	6833.7	6745.1	6626.9	6482.0	6477.4	6295.2	5797.2	5322.2	5232.1	3873.2
42.5°	6794.3	6766.1	6729.8	6697.5	6653.0	6673.5	6685.2	6165.7	5702.0	5601.1	4140.3
45°	6567.5	6525.0	6550.6	6620.7	6717.5	6833.2	7037.4	6573.7	6127.3	6042.9	4454.1
47.5°	6218.9	6180.6	6260.4	6410.4	6673.5	6966.2	7370.6	7024.1	6635.1	6551.1	4900.9
50°	5728.6	5739.9	5854.0	6126.8	6524.5	7027.7	7781.1	7620.4	7373.2	7294.9	5510.6
52.5°	4924.0	4926.0	5247.5	5695.3	6260.4	6995.9	8008.9	8382.5	8381.0	8286.3	6091.0
55°	4176.7	4222.2	4476.6	5071.9	5832.5	6869.0	8168.1	8753.1	9042.8	8931.7	6632.0
57.5°	3446.8	3473.4	3714.5	4312.3	5221.9	6530.7	8331.3	9197.9	9805.5	9735.3	7304.6
60°	2616.6	2657.5	2906.8	3459.1	4440.8	5930.3	8346.7	9662.1	10717.1	10646.4	8055.5
62.5°	1698.3	1768.9	2002.3	2519.8	3495.9	5066.8	7990.5	9965.7	11581.1	11556.0	8721.9
65°	976.1	1029.3	1191.6	1590.8	2411.8	3982.7	7143.3	9849.0	12112.9	12098.5	8971.2
66°	797.5	830.7	955.1	1243.3	1990.1	3497.5	6650.9	9602.8	12165.6	12166.1	8942.5
67.5°	637.8	652.6	708.4	890.1	1468.5	2772.2	5771.1	9059.7	12100.1	12118.0	8757.7
70°	527.7	535.4	552.8	596.8	801.6	1671.7	4096.3	7648.5	11442.4	11456.2	8036.5
72.5°	473.5	478.1	484.7	490.9	565.6	934.1	2501.9	6118.6	10032.2	10050.1	6937.6
75°	428.9	431.5	430.5	431.0	474.5	595.3	1292.9	4568.2	8111.8	8075.9	5314.5
77.5°	376.7	379.3	374.2	375.2	419.7	457.6	643.4	3198.0	5474.2	5221.4	2994.3
80°	318.4	320.4	318.4	322.0	365.5	345.5	374.2	1799.1	2420.5	2289.5	1064.6
82.5°	240.6	249.3	255.4	269.7	301.0	245.7	250.3	700.7	737.1	701.7	326.6
85°	105.4	128.5	192.5	206.3	226.2	147.4	164.3	285.6	299.9	290.7	118.7
87.5°	27.6	30.2	95.2	119.8	125.4	66.5	85.5	130.0	137.2	130.0	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317446
 CATALOG NUMBER: GAN-SA2C-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9	1376.9
2.5°	1392.2	1367.1	1322.1	1282.2	1252.0	1231.5	1211.0	1200.8	1194.7	1188.5	1189.5
5°	1436.8	1386.1	1308.8	1254.0	1223.3	1203.9	1193.6	1189.5	1187.0	1180.8	1180.8
7.5°	1503.8	1432.1	1325.7	1269.4	1245.3	1230.5	1224.3	1222.3	1219.2	1212.1	1213.1
10°	1588.3	1487.9	1361.0	1306.2	1284.2	1267.8	1259.1	1256.1	1250.4	1242.3	1243.3
12.5°	1687.6	1557.0	1407.6	1350.3	1323.6	1301.6	1287.3	1278.6	1268.9	1258.1	1258.6
15°	1796.1	1632.3	1457.7	1389.7	1353.3	1322.6	1299.6	1284.7	1269.4	1256.1	1255.6
17.5°	1906.1	1705.0	1496.1	1411.2	1362.0	1321.6	1290.4	1267.3	1248.4	1232.0	1230.5
20°	2024.9	1770.5	1517.6	1409.1	1345.6	1297.5	1256.1	1227.4	1206.4	1190.0	1187.5
22.5°	2145.7	1831.9	1521.2	1388.1	1309.3	1250.4	1206.9	1175.2	1153.7	1136.8	1130.7
25°	2256.2	1879.5	1506.4	1347.7	1258.6	1195.2	1152.7	1120.4	1103.0	1083.1	1076.9
27.5°	2357.1	1912.8	1476.7	1296.0	1201.8	1139.4	1099.4	1071.8	1052.9	1037.5	1032.4
30°	2447.7	1930.7	1428.1	1234.6	1143.5	1086.7	1052.9	1033.9	1017.6	998.1	994.5
32.5°	2533.6	1930.7	1365.6	1167.5	1085.6	1040.1	1020.1	1008.3	989.9	971.0	965.9
35°	2619.6	1918.9	1291.9	1097.4	1032.4	1006.8	1005.8	992.0	963.8	938.2	931.6
37.5°	2710.2	1894.9	1209.0	1031.9	988.9	992.0	1000.7	970.0	930.0	893.7	884.0
40°	2812.6	1861.6	1123.0	975.1	952.5	985.3	986.8	938.2	860.4	827.1	818.4
42.5°	2932.9	1828.3	1043.1	924.9	923.9	965.3	960.7	869.6	823.1	806.2	801.6
45°	3091.0	1809.4	967.4	877.3	901.4	933.1	916.2	831.8	812.3	802.6	798.5
47.5°	3340.3	1819.1	897.8	839.4	878.8	900.9	833.3	816.4	802.6	790.8	786.7
50°	3652.5	1813.5	841.5	813.3	853.3	867.1	795.9	796.4	789.3	776.0	769.8
52.5°	3887.5	1769.5	805.1	798.5	830.7	807.2	772.4	777.0	773.4	754.0	747.3
55°	4114.2	1731.6	786.7	792.9	814.3	732.5	744.7	756.0	752.4	733.5	730.4
57.5°	4396.3	1724.4	775.4	794.4	800.5	695.1	718.1	733.0	730.4	722.2	720.7
60°	4741.8	1726.5	765.2	796.9	785.2	667.4	693.0	712.0	713.5	712.0	711.0
62.5°	4931.7	1670.7	739.6	789.8	758.0	643.4	666.9	694.6	695.1	698.2	697.6
65°	4770.4	1503.8	692.0	764.7	712.5	623.4	644.4	674.6	666.9	680.8	680.8
66°	4613.8	1407.6	668.5	748.3	693.0	615.8	637.3	664.4	654.7	673.6	673.6
67.5°	4293.9	1245.3	626.0	713.5	665.4	605.0	629.1	647.5	634.2	662.3	660.3
70°	3709.4	963.3	540.5	634.7	619.8	589.1	617.8	613.7	594.3	637.3	629.1
72.5°	3127.4	731.9	434.0	531.3	550.7	569.2	601.9	570.7	546.1	576.3	558.4
75°	2426.7	550.2	342.9	413.1	465.3	538.0	583.0	521.1	485.7	482.7	472.9
77.5°	1311.9	377.7	271.8	315.3	369.6	499.1	570.2	467.8	414.6	402.3	394.6
80°	519.5	245.7	197.6	239.0	258.5	442.7	539.5	405.9	341.9	329.6	317.9
82.5°	214.5	145.4	127.5	160.2	168.4	378.8	484.2	332.7	264.1	365.5	388.0
85°	92.1	79.8	75.8	82.9	95.2	265.6	385.4	253.9	285.1	254.4	202.2
87.5°	27.6	33.8	32.2	31.7	34.8	63.5	205.3	141.3	209.3	79.3	59.4
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)