

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: McGRAW-EDISON

Report Number: P382635

Luminaire Tested: **GLEON-SA0B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52695.8 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

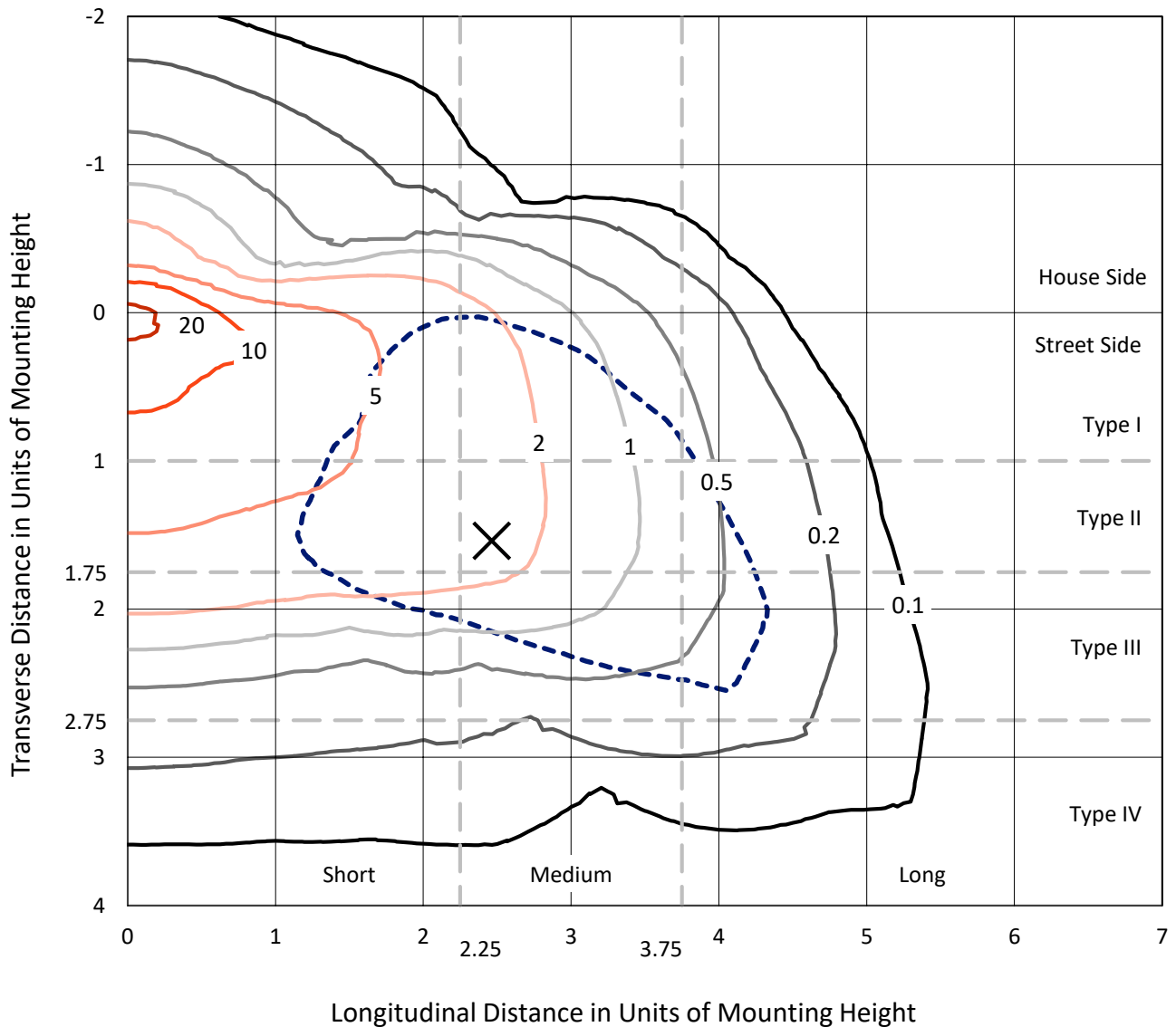
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382635
 CATALOG NUMBER: GLEON-SA0B-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

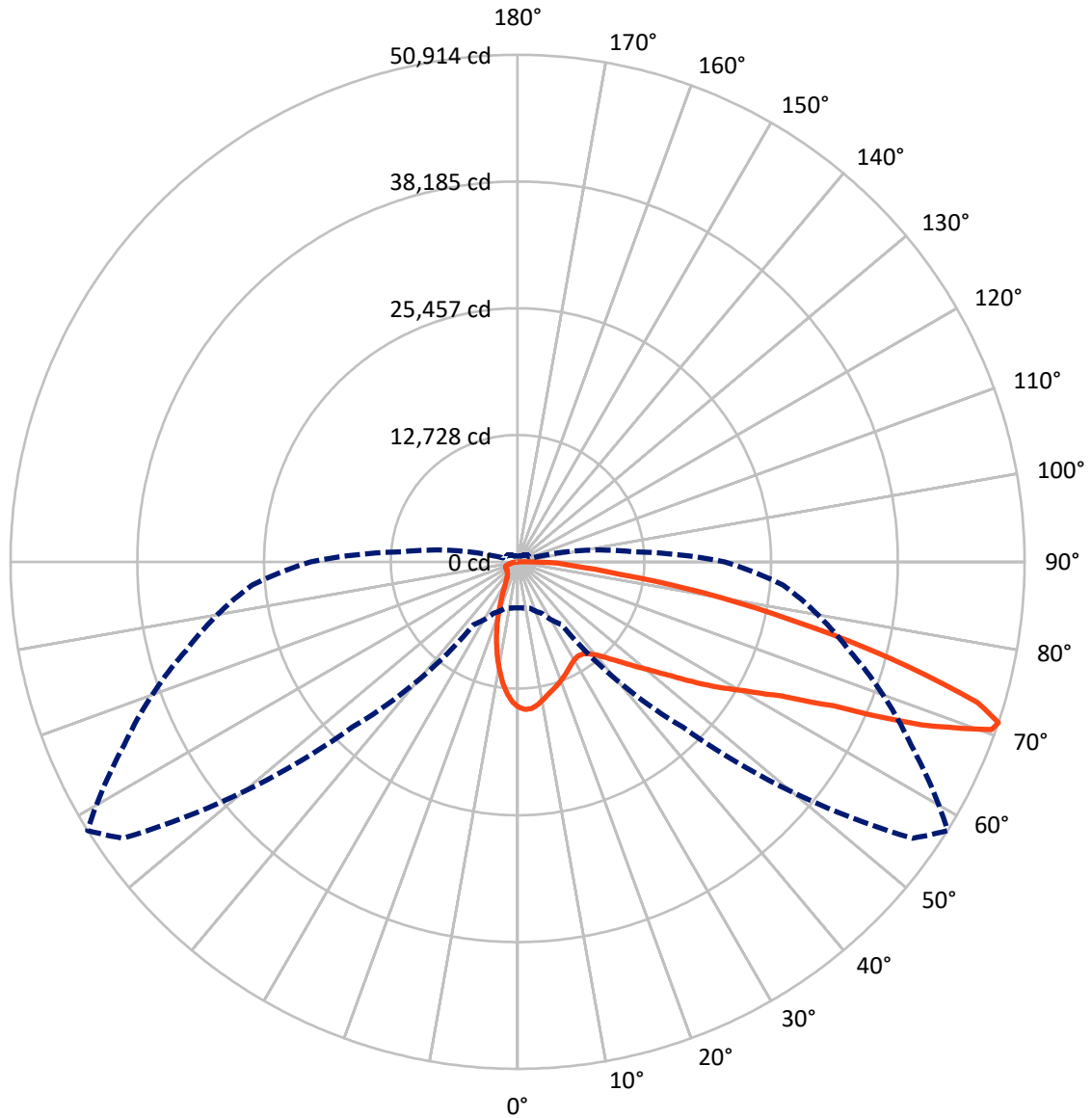
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P382635
CATALOG NUMBER: GLEON-SA0B-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P382635
 CATALOG NUMBER: GLEON-SA0B-735-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7878.4	0.0	7878.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	44817.4	0.0	44817.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	52695.8	0.0	52695.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.6	2.4
10°-20°	2800.8	5.3
20°-30°	3559.5	6.8
30°-40°	4534.1	8.6
40°-50°	6429.6	12.2
50°-60°	9950.0	18.9
60°-70°	13545.7	25.7
70°-80°	9036.6	17.1
80°-90°	1579.9	3.0
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°	52695.8	100.0
0°-180°	52695.8	100.0

Coefficient of Utilization

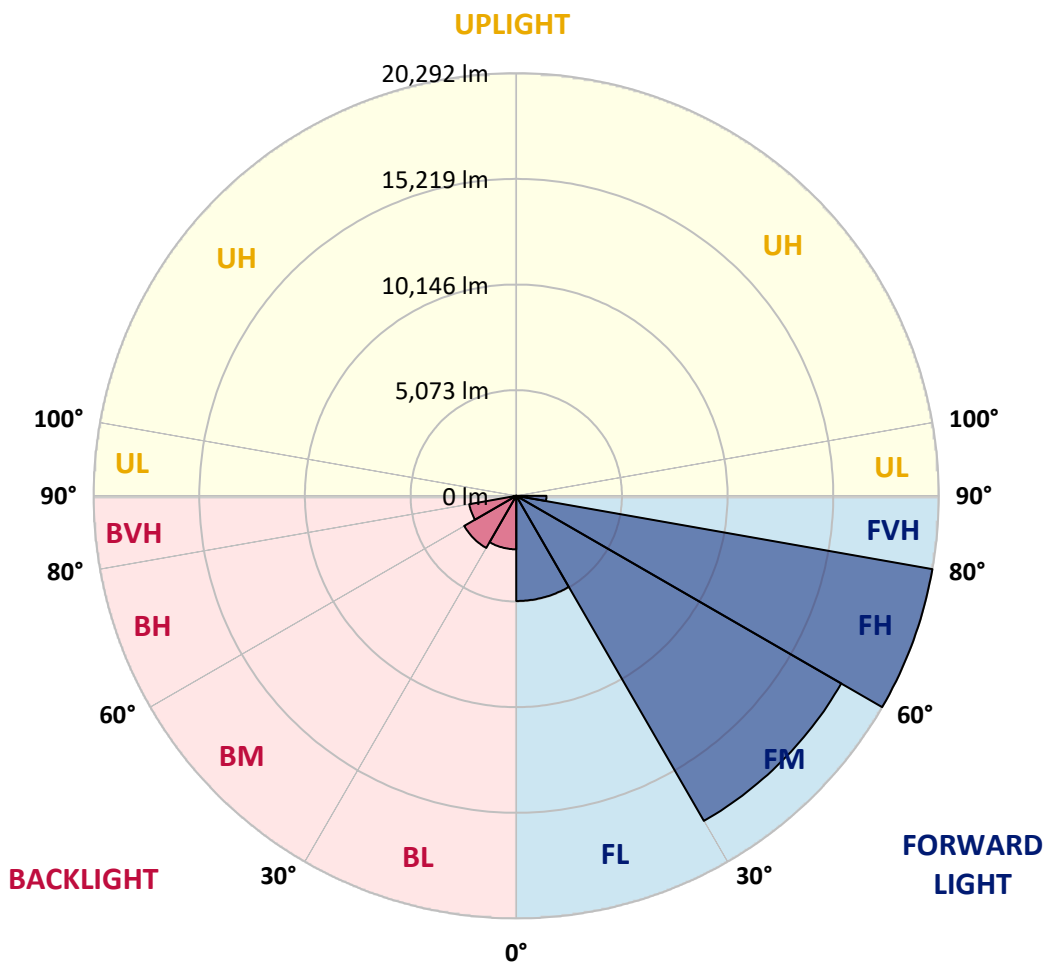


REPORT NUMBER: P382635
 CATALOG NUMBER: GLEON-SA0B-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5051.8	9.6			
FM (30°-60°)	18024.5	34.2			
FH (60°-80°)	20292.5	38.5			G5
FVH (80°-90°)	1448.6	2.7			G5
BL (0°-30°)	2568.1	4.9	B4/5000		
BM (30°-60°)	2889.2	5.5	B3/5000		
BH (60°-80°)	2289.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	131.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





REPORT NUMBER: P382635

CATALOG NUMBER: GLEON-SA0B-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2
2.5°	14987.6	14967.4	14974.7	14960.0	14925.2	14890.3	14838.9	14848.0	14776.5	14670.0	14537.8
5°	14704.9	14697.6	14752.6	14783.8	14809.6	14789.3	14774.6	14793.0	14688.4	14541.6	14312.1
7.5°	14112.0	14031.2	14100.9	14205.6	14304.8	14380.0	14479.1	14492.0	14425.9	14271.7	13970.6
10°	13269.4	13192.4	13295.1	13458.5	13656.8	13836.6	14036.7	14073.4	14086.3	13946.8	13581.5
12.5°	12395.7	12337.0	12439.8	12669.2	12997.8	13274.9	13594.4	13649.4	13763.2	13669.6	13221.7
15°	11613.8	11591.7	11716.5	11942.3	12320.5	12744.5	13205.2	13306.1	13498.9	13467.7	12940.9
17.5°	10938.2	10932.7	11028.2	11265.0	11683.5	12219.5	12817.9	12988.6	13274.9	13311.6	12709.6
20°	10435.3	10424.3	10490.3	10664.7	11096.1	11703.7	12399.4	12634.3	13047.3	13175.8	12471.0
22.5°	10165.5	10163.7	10165.5	10248.0	10600.5	11165.9	11991.9	12278.3	12825.3	13067.6	12206.6
25°	10119.6	10114.1	10073.7	10064.5	10264.6	10716.2	11588.1	11903.8	12614.2	12992.3	11955.2
27.5°	10238.9	10246.3	10193.0	10106.7	10147.2	10420.7	11237.4	11575.2	12445.3	12977.6	11780.8
30°	10486.7	10483.1	10437.2	10347.2	10268.3	10310.5	10987.8	11325.6	12331.5	13041.9	11661.5
32.5°	10760.2	10780.4	10771.2	10721.6	10604.2	10435.3	10912.5	11242.9	12298.4	13196.0	11610.1
35°	11088.8	11110.8	11176.9	11215.5	11077.8	10806.1	11074.1	11360.4	12393.9	13486.0	11692.7
37.5°	11400.8	11457.8	11643.1	11806.5	11689.1	11386.1	11503.6	11707.4	12689.4	13943.1	11914.8
40°	11760.6	11810.2	12113.0	12459.9	12441.6	12127.7	12195.6	12331.5	13210.7	14598.4	12316.8
42.5°	12114.9	12214.0	12652.7	13144.6	13286.0	13008.8	13117.1	13188.7	13945.0	15466.7	13018.0
45°	12586.6	12693.1	13302.5	13895.4	14225.8	14069.8	14242.3	14269.8	14868.2	16648.8	14036.7
47.5°	13300.6	13421.8	14132.1	14754.4	15259.2	15275.8	15560.3	15549.3	16021.0	18001.6	15319.8
50°	14413.0	14587.4	15169.3	15751.2	16364.2	16705.6	17085.6	17032.4	17403.2	19442.5	16797.5
52.5°	15870.5	15951.3	16382.6	16812.1	17573.9	18339.4	18884.5	18836.8	18970.8	20923.9	18475.2
55°	17381.2	17441.7	17619.8	17854.8	18879.0	20127.2	21280.0	21204.7	20865.1	22462.0	20132.7
57.5°	18739.5	18862.4	18985.5	19082.8	20193.3	21995.8	23730.4	23735.9	22921.0	24121.4	21845.4
60°	18950.6	19058.9	19872.1	20639.4	22441.9	24488.5	26353.5	26298.4	25048.4	25922.2	23754.4
62.5°	16751.6	16995.7	18354.0	20395.2	24607.9	29048.2	29699.8	29631.9	27592.5	28141.4	25977.2
65°	12004.8	12281.9	13921.0	16988.4	23557.9	34072.2	35738.8	34824.8	31061.8	30870.9	28580.1
67.5°	6925.7	6991.7	7702.1	10165.5	17937.3	34334.6	44951.6	43672.3	36449.2	33967.5	29854.0
70°	5121.3	5119.4	5288.3	6255.7	9706.5	28022.1	49333.2	50480.5	42121.2	34986.3	28053.3
71°	4631.2	4636.7	4825.8	5694.0	7687.4	23455.2	48402.6	50913.6	43615.3	34483.3	26750.0
72.5°	3961.2	3979.6	4242.1	5106.6	6466.8	16175.2	44393.6	48314.4	44323.9	33242.5	24710.7
75°	3004.9	3047.1	3410.5	4304.5	5910.6	8203.2	32581.6	38580.3	39375.1	29332.7	18361.4
77.5°	2144.0	2191.7	2602.8	3619.8	5618.7	6182.2	21819.6	28141.4	28976.5	18798.3	8282.2
80°	1354.7	1411.6	1721.8	2880.1	5279.2	5870.2	13711.8	18915.7	15800.7	6015.2	2107.3
82.5°	794.8	838.9	1068.3	1881.4	4311.8	5653.6	8067.4	10484.8	6149.2	1817.3	958.2
85°	460.7	481.0	666.3	1198.6	3131.5	5336.1	5927.1	5861.0	2669.0	888.4	453.4
87.5°	214.7	238.7	394.7	625.9	1738.3	3867.6	4684.4	4047.5	1659.4	416.7	213.0
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: P382635
 CATALOG NUMBER: GLEON-SA0B-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2	14600.2
2.5°	14473.6	14442.4	14312.1	14196.4	14075.3	13917.4	13743.0	13721.0	13614.6	13634.8	13598.0
5°	14187.3	14108.3	13794.5	13510.0	13174.0	12873.0	12546.3	12395.7	12179.1	12164.4	12109.4
7.5°	13777.9	13631.1	13144.6	12605.0	12065.3	11551.4	11042.8	10708.8	10367.4	10222.3	10209.6
10°	13317.2	13067.6	12351.7	11553.1	10774.9	10024.1	9297.2	8759.4	8274.8	8045.4	8036.2
12.5°	12880.3	12511.3	11529.3	10442.6	9378.0	8405.2	7408.4	6701.7	6094.2	5890.4	5804.1
15°	12509.6	11990.0	10729.0	9339.5	8047.2	6696.2	5561.8	4818.4	4256.7	4062.1	4025.4
17.5°	12149.7	11481.6	9908.5	8225.3	6663.2	5178.2	4042.0	3489.5	3190.3	3111.3	3109.5
20°	11791.8	10958.4	9051.3	7085.4	5325.0	3873.1	3107.6	2859.9	2758.9	2749.7	2735.0
22.5°	11386.1	10404.1	8150.0	5941.8	4155.7	3045.2	2641.4	2542.3	2529.4	2562.5	2562.5
25°	11006.1	9853.4	7235.9	4822.1	3232.5	2540.4	2358.8	2338.6	2373.4	2432.2	2437.7
27.5°	10651.9	9322.9	6343.7	3827.2	2590.0	2237.6	2162.3	2186.2	2248.6	2316.5	2318.3
30°	10360.0	8821.8	5477.4	3015.9	2188.0	2011.8	1998.9	2046.7	2114.6	2167.8	2180.7
32.5°	10134.3	8394.2	4640.3	2424.8	1925.5	1843.0	1854.0	1894.3	1936.5	1965.9	1986.1
35°	10029.6	8027.1	3867.6	2044.8	1758.5	1712.6	1727.3	1749.4	1767.7	1789.7	1806.2
37.5°	10048.0	7742.5	3177.4	1808.0	1646.5	1622.7	1622.7	1622.7	1622.7	1633.7	1635.5
40°	10218.7	7579.2	2615.7	1657.5	1571.2	1545.5	1525.4	1507.1	1492.3	1499.7	1496.0
42.5°	10655.6	7564.4	2204.5	1562.1	1510.7	1468.5	1428.1	1402.4	1384.0	1391.4	1395.1
45°	11397.1	7748.1	1927.4	1494.2	1453.8	1389.5	1338.2	1310.6	1297.7	1321.6	1325.3
47.5°	12357.2	8148.2	1758.5	1444.6	1400.6	1316.1	1261.0	1235.3	1239.1	1273.9	1283.1
50°	13594.4	8798.0	1677.7	1413.4	1363.9	1253.7	1196.8	1174.8	1185.8	1235.3	1246.3
52.5°	14952.6	9734.1	1686.9	1404.2	1339.9	1207.8	1147.2	1121.6	1139.9	1185.8	1195.0
55°	16520.3	10859.3	1839.2	1417.1	1305.1	1178.4	1106.9	1062.8	1077.5	1119.7	1127.1
57.5°	18262.2	12147.9	2145.8	1413.4	1261.0	1150.9	1064.7	998.5	1009.6	1035.2	1042.6
60°	20075.8	13704.5	2621.2	1424.4	1240.8	1117.9	1007.7	925.1	921.5	943.5	947.2
62.5°	22252.8	15505.2	3164.6	1431.8	1253.7	1075.7	932.5	851.7	840.7	846.2	849.9
65°	24495.9	16808.5	2960.8	1402.4	1294.1	1040.8	866.4	780.1	760.0	756.2	758.1
67.5°	24565.7	15411.6	2076.0	1343.7	1310.6	1022.5	816.9	719.5	686.6	673.7	671.8
70°	22030.7	12520.6	1617.2	1281.3	1244.5	993.0	770.9	670.0	620.4	600.2	598.4
71°	20793.5	11525.7	1532.7	1250.0	1195.0	963.7	750.7	648.0	596.6	574.6	570.9
72.5°	18853.3	10332.5	1429.9	1200.5	1099.5	888.4	712.2	616.8	563.5	537.8	532.3
75°	13530.1	6756.8	1228.0	1070.2	910.5	708.5	624.1	554.4	508.4	477.2	473.6
77.5°	5213.0	2689.1	928.8	890.3	697.5	554.4	513.9	479.1	446.0	414.8	413.0
80°	1611.7	1202.3	677.3	670.0	504.8	413.0	400.2	391.0	378.1	345.0	337.8
82.5°	860.9	690.2	466.2	433.2	330.4	275.4	290.0	293.7	295.5	260.6	257.0
85°	411.2	365.3	262.5	245.9	192.7	154.2	178.0	192.7	194.6	159.7	148.7
87.5°	196.4	190.9	123.0	93.6	71.5	51.4	62.4	77.1	84.4	60.6	53.2
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)