

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: P382841

Luminaire Tested: **GLEON-SA2A-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382841
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: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9254 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

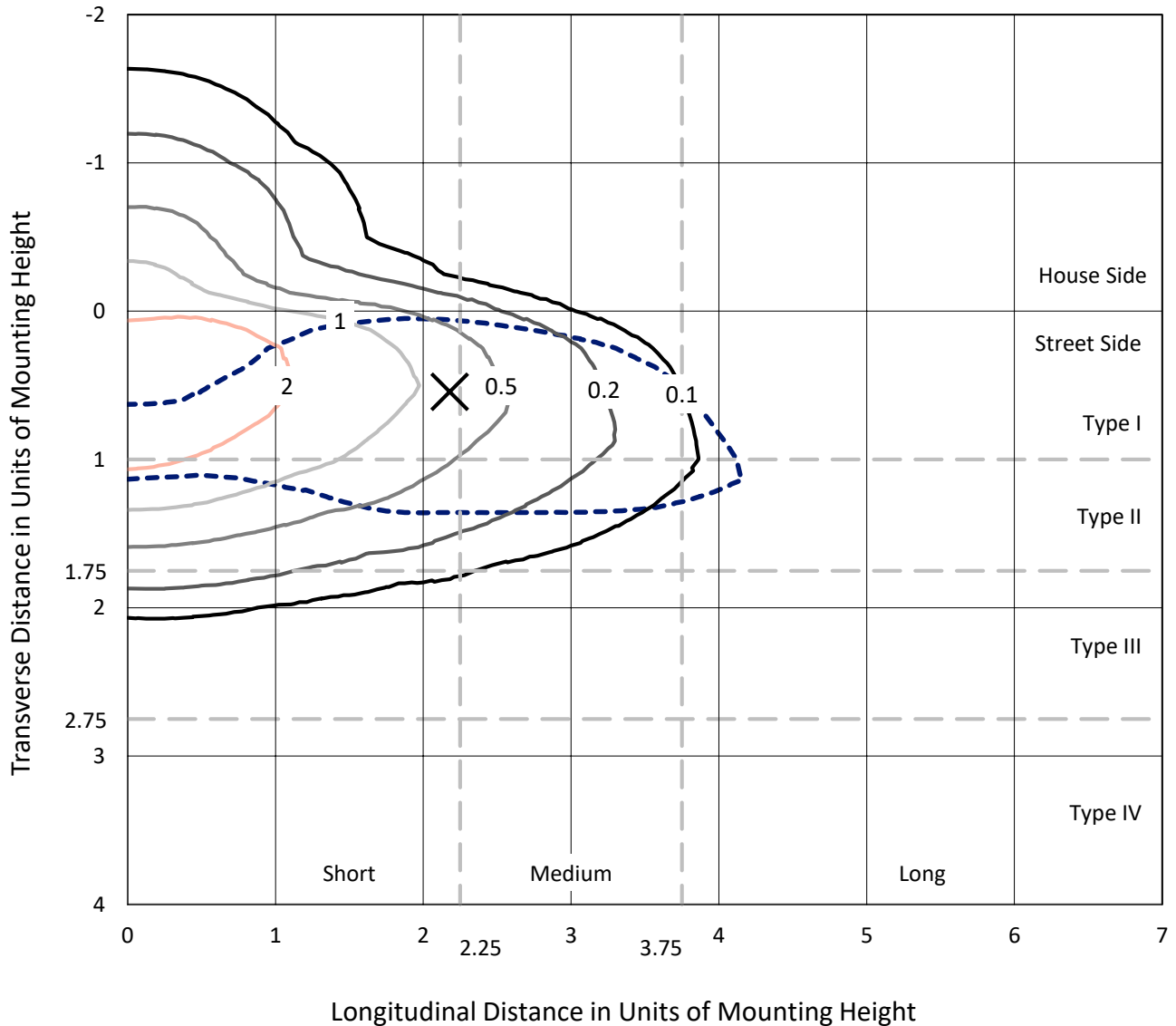
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GLEON-SA2A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

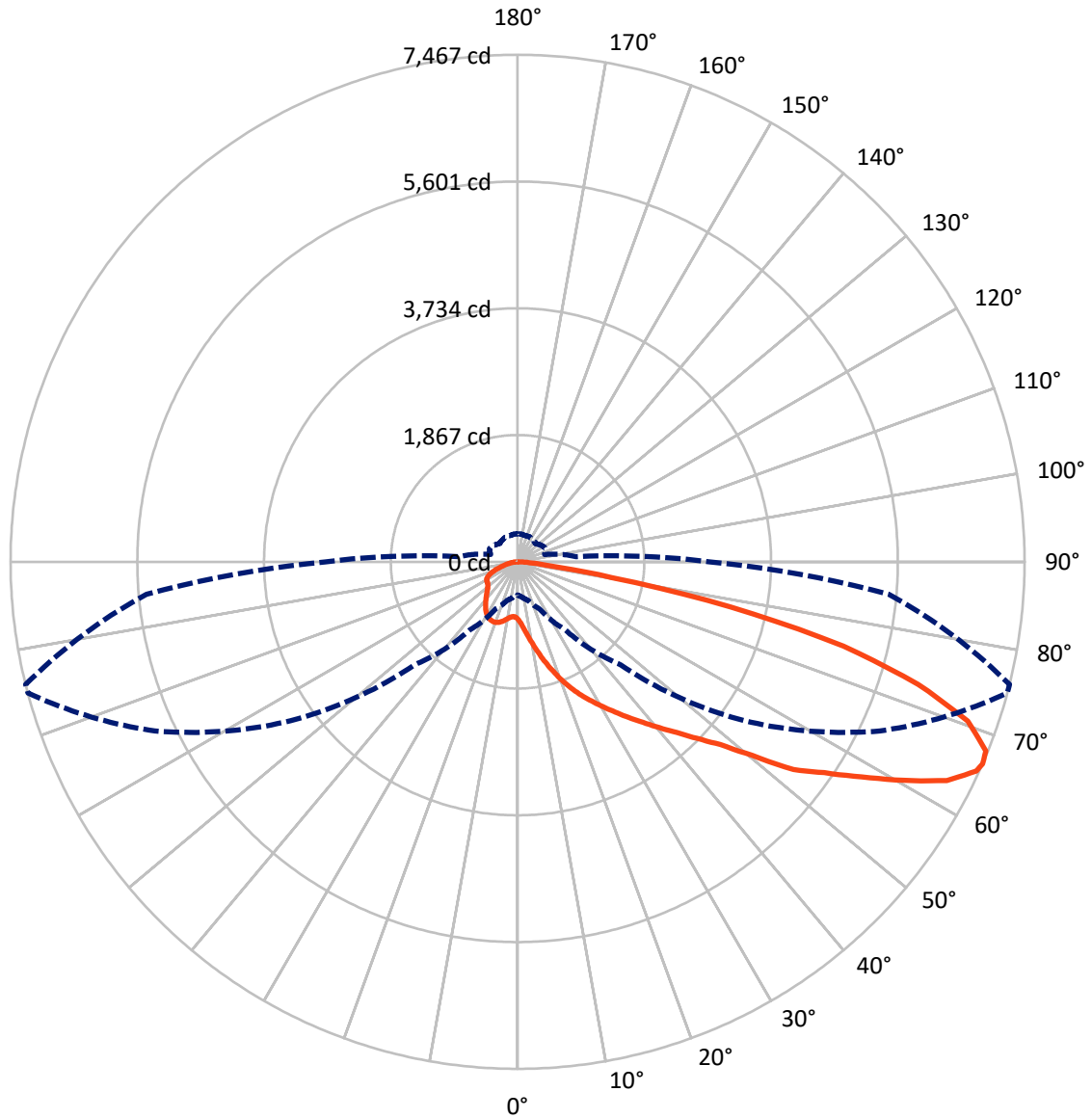
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P382841
CATALOG NUMBER: GLEON-SA2A-735-U-T2R

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.1	0.0	1557.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7696.9	0.0	7696.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	9254.0	0.0	9254.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.1
10°-20°	403.6	4.4
20°-30°	784.2	8.5
30°-40°	1280.0	13.8
40°-50°	1748.8	18.9
50°-60°	2037.0	22.0
60°-70°	1826.2	19.7
70°-80°	922.9	10.0
80°-90°	149.0	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°	9254.0	100.0
0°-180°	9254.0	100.0

Coefficient of Utilization



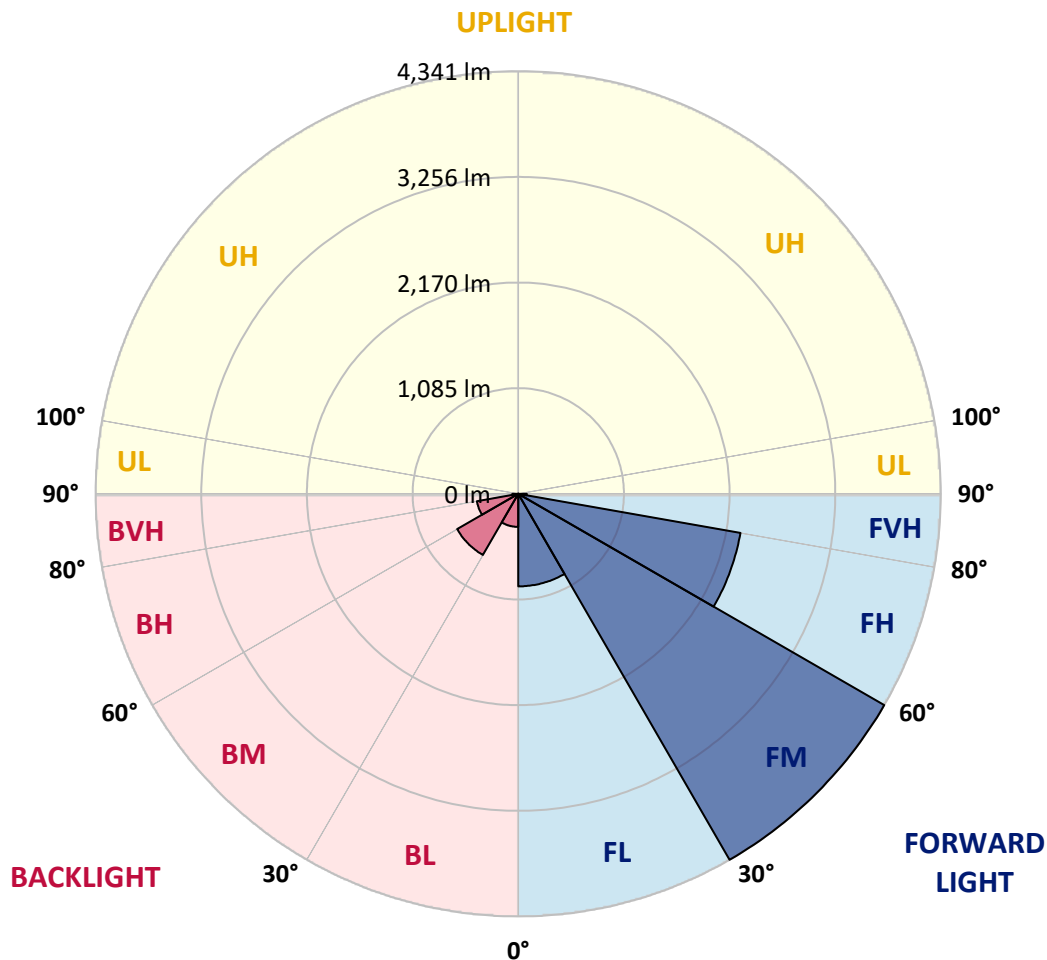
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 CATALOG NUMBER: GLEON-SA2A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	950.4	10.3			
FM (30°-60°)	4340.8	46.9			
FH (60°-80°)	2317.7	25.0			G2/5000
FVH (80°-90°)	88.0	1.0			G1/100
BL (0°-30°)	339.6	3.7	B1/500		
BM (30°-60°)	725.1	7.8	B1/1000		
BH (60°-80°)	431.4	4.7	B1/500		G1/500
BVH (80°-90°)	61.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	1121.9	1104.9	1103.3	1078.5	1072.9	1025.4	990.5	954.1	912.6	904.4	871.8
5°	1441.1	1439.5	1417.8	1377.3	1345.5	1264.5	1184.4	1099.6	1006.5	991.5	917.9
7.5°	1728.2	1725.7	1709.0	1665.4	1619.5	1519.9	1405.5	1275.5	1124.7	1102.4	980.5
10°	1946.3	1945.3	1939.7	1907.6	1868.7	1773.1	1646.9	1469.3	1262.0	1231.5	1058.7
12.5°	2114.6	2116.5	2120.3	2108.9	2090.5	2009.1	1879.7	1674.8	1408.4	1378.2	1145.7
15°	2228.6	2234.3	2253.8	2269.8	2279.6	2229.7	2104.3	1885.0	1572.4	1536.2	1242.2
17.5°	2286.2	2292.4	2326.1	2374.4	2419.0	2414.0	2314.4	2085.5	1729.8	1695.0	1345.9
20°	2335.8	2340.5	2378.2	2436.4	2515.2	2550.0	2494.1	2278.3	1902.2	1860.8	1455.8
22.5°	2479.7	2485.6	2497.0	2530.0	2599.7	2663.8	2636.7	2460.9	2060.3	2021.6	1560.2
25°	2757.4	2764.6	2740.1	2712.2	2725.3	2770.0	2775.0	2627.3	2220.5	2176.8	1672.3
27.5°	3092.0	3102.3	3060.6	2988.6	2925.8	2908.5	2902.5	2763.7	2373.5	2322.9	1783.2
30°	3419.6	3437.6	3383.2	3289.9	3174.6	3093.6	3033.6	2897.2	2524.3	2476.0	1887.8
32.5°	3739.8	3732.5	3653.7	3562.6	3427.5	3326.0	3180.9	3040.5	2693.9	2638.3	1991.8
35°	3959.1	3961.6	3888.4	3780.3	3651.5	3573.6	3378.2	3195.0	2867.0	2815.9	2110.0
37.5°	4145.7	4134.1	4051.1	3950.3	3839.4	3806.1	3609.1	3365.3	3054.6	2998.7	2235.6
40°	4207.9	4194.4	4140.1	4067.5	3978.5	3975.8	3863.9	3558.2	3266.7	3211.4	2377.3
42.5°	4170.2	4152.9	4130.6	4110.8	4083.5	4096.0	4103.3	3784.4	3499.7	3437.9	2541.3
45°	4031.0	4004.9	4020.7	4063.7	4123.0	4194.1	4319.4	4034.8	3760.8	3709.0	2733.8
47.5°	3817.1	3793.5	3842.5	3934.6	4096.0	4275.8	4524.0	4311.3	4072.5	4020.9	3008.2
50°	3516.1	3523.0	3593.1	3760.6	4004.6	4313.4	4776.0	4677.3	4525.6	4477.5	3382.3
52.5°	3022.2	3023.5	3220.8	3495.7	3842.5	4294.0	4915.7	5145.0	5144.1	5086.0	3738.6
55°	2563.5	2591.6	2747.7	3113.0	3579.8	4216.1	5013.4	5372.5	5550.3	5482.2	4070.6
57.5°	2115.5	2131.9	2279.9	2646.8	3205.1	4008.4	5113.6	5645.6	6018.4	5975.4	4483.4
60°	1606.0	1631.1	1784.1	2123.1	2725.7	3639.9	5123.0	5930.4	6577.9	6534.6	4944.3
62.5°	1042.4	1085.7	1229.0	1546.6	2145.7	3109.9	4904.4	6116.7	7108.3	7092.9	5353.3
65°	599.1	631.8	731.4	976.4	1480.3	2444.5	4384.4	6045.1	7434.7	7425.8	5506.4
66°	489.4	509.9	586.2	763.1	1221.4	2146.7	4082.2	5894.0	7467.0	7467.4	5488.8
67.5°	391.4	400.6	434.8	546.4	901.4	1701.5	3542.2	5560.7	7426.9	7437.8	5375.3
70°	323.9	328.6	339.3	366.3	492.0	1026.1	2514.2	4694.5	7023.1	7031.6	4932.6
72.5°	290.6	293.4	297.5	301.3	347.2	573.4	1535.7	3755.5	6157.6	6168.6	4258.2
75°	263.3	264.8	264.2	264.6	291.2	365.4	793.6	2803.9	4978.8	4956.9	3262.0
77.5°	231.2	232.8	229.6	230.3	257.6	280.9	394.9	1962.9	3360.0	3204.8	1837.9
80°	195.4	196.6	195.4	197.6	224.3	212.0	229.6	1104.3	1485.6	1405.2	653.5
82.5°	147.7	153.0	156.8	165.5	184.7	150.8	153.6	430.1	452.4	430.7	200.5
85°	64.7	78.8	118.1	126.6	138.9	90.5	100.9	175.3	184.1	178.5	72.8
87.5°	17.0	18.5	58.4	73.5	76.9	40.8	52.4	79.8	84.2	79.8	24.2
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: P382841
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1	845.1
2.5°	854.5	839.1	811.5	787.0	768.4	755.9	743.3	737.0	733.2	729.5	730.1
5°	881.9	850.8	803.3	769.7	750.8	738.9	732.7	730.1	728.6	724.7	724.7
7.5°	923.0	879.0	813.7	779.1	764.3	755.2	751.5	750.2	748.3	743.9	744.6
10°	974.9	913.3	835.3	801.8	788.3	778.2	772.8	770.9	767.5	762.5	763.1
12.5°	1035.8	955.7	863.9	828.8	812.4	798.9	790.1	784.7	778.8	772.3	772.5
15°	1102.4	1001.9	894.8	852.9	830.7	811.8	797.7	788.6	779.1	770.9	770.7
17.5°	1169.9	1046.5	918.3	866.2	836.0	811.2	792.0	777.8	766.2	756.2	755.2
20°	1242.9	1086.7	931.5	864.8	825.9	796.4	770.9	753.3	740.5	730.4	728.8
22.5°	1316.9	1124.4	933.7	852.0	803.6	767.5	740.8	721.3	708.2	697.7	694.0
25°	1384.8	1153.6	924.6	827.2	772.5	733.6	707.5	687.7	677.0	664.8	661.0
27.5°	1446.7	1174.0	906.4	795.4	737.7	699.3	674.8	657.9	646.2	636.8	633.6
30°	1502.3	1185.0	876.5	757.7	701.8	667.0	646.2	634.6	624.5	612.6	610.4
32.5°	1555.1	1185.0	838.2	716.6	666.3	638.4	626.1	618.9	607.6	596.0	592.8
35°	1607.9	1177.8	792.9	673.6	633.6	618.0	617.3	608.9	591.5	575.9	571.8
37.5°	1663.5	1163.0	742.1	633.4	607.0	608.9	614.2	595.4	570.9	548.5	542.5
40°	1726.3	1142.6	689.3	598.5	584.6	604.8	605.7	575.9	528.1	507.7	502.4
42.5°	1800.1	1122.2	640.3	567.7	567.0	592.6	589.7	533.8	505.2	494.8	492.0
45°	1897.2	1110.6	593.8	538.4	553.2	572.7	562.4	510.5	498.6	492.6	490.1
47.5°	2050.2	1116.6	551.0	515.2	539.5	553.0	511.4	501.1	492.6	485.3	482.9
50°	2241.9	1113.1	516.4	499.2	523.7	532.2	488.5	488.9	484.4	476.3	472.5
52.5°	2386.1	1086.1	494.2	490.1	509.9	495.4	474.1	476.9	474.7	462.8	458.7
55°	2525.2	1062.8	482.9	486.6	499.9	449.6	457.1	464.0	461.9	450.2	448.4
57.5°	2698.3	1058.4	475.9	487.6	491.4	426.6	440.8	449.8	448.4	443.3	442.3
60°	2910.4	1059.6	469.7	489.2	481.9	409.7	425.3	437.0	437.9	437.0	436.3
62.5°	3027.0	1025.4	453.9	484.8	465.3	394.9	409.3	426.3	426.6	428.5	428.2
65°	2928.0	923.0	424.8	469.3	437.3	382.7	395.5	414.1	409.3	417.8	417.8
66°	2831.9	863.9	410.3	459.3	425.3	377.9	391.2	407.7	401.8	413.4	413.4
67.5°	2635.5	764.3	384.3	437.9	408.4	371.3	386.1	397.4	389.3	406.5	405.3
70°	2276.7	591.3	331.7	389.6	380.4	361.6	379.2	376.7	364.7	391.2	386.1
72.5°	1919.5	449.3	266.4	326.1	338.1	349.3	369.5	350.3	335.2	353.7	342.7
75°	1489.5	337.7	210.5	253.6	285.6	330.1	357.8	319.8	298.1	296.2	290.3
77.5°	805.2	231.9	166.8	193.5	226.8	306.3	350.0	287.1	254.5	247.0	242.2
80°	318.9	150.8	121.3	146.7	158.6	271.7	331.2	249.1	209.9	202.3	195.1
82.5°	131.6	89.2	78.2	98.4	103.4	232.5	297.2	204.2	162.1	224.3	238.1
85°	56.5	49.0	46.5	50.9	58.4	163.0	236.5	155.8	174.9	156.1	124.1
87.5°	17.0	20.8	19.7	19.5	21.3	38.9	125.9	86.7	128.5	48.7	36.4
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)