

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: P320112

Luminaire Tested: **GLEON-SA8A-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26089 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

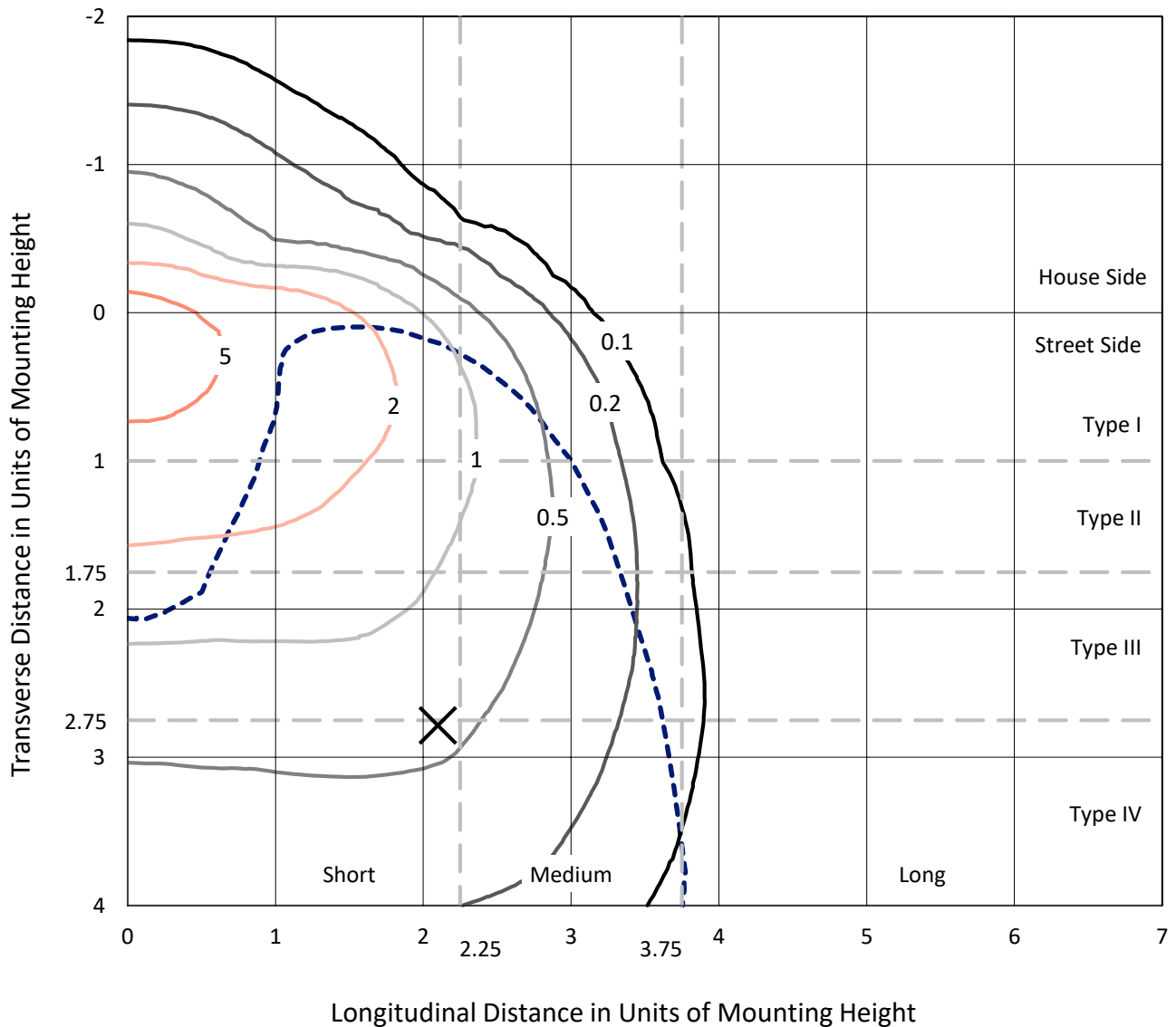
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

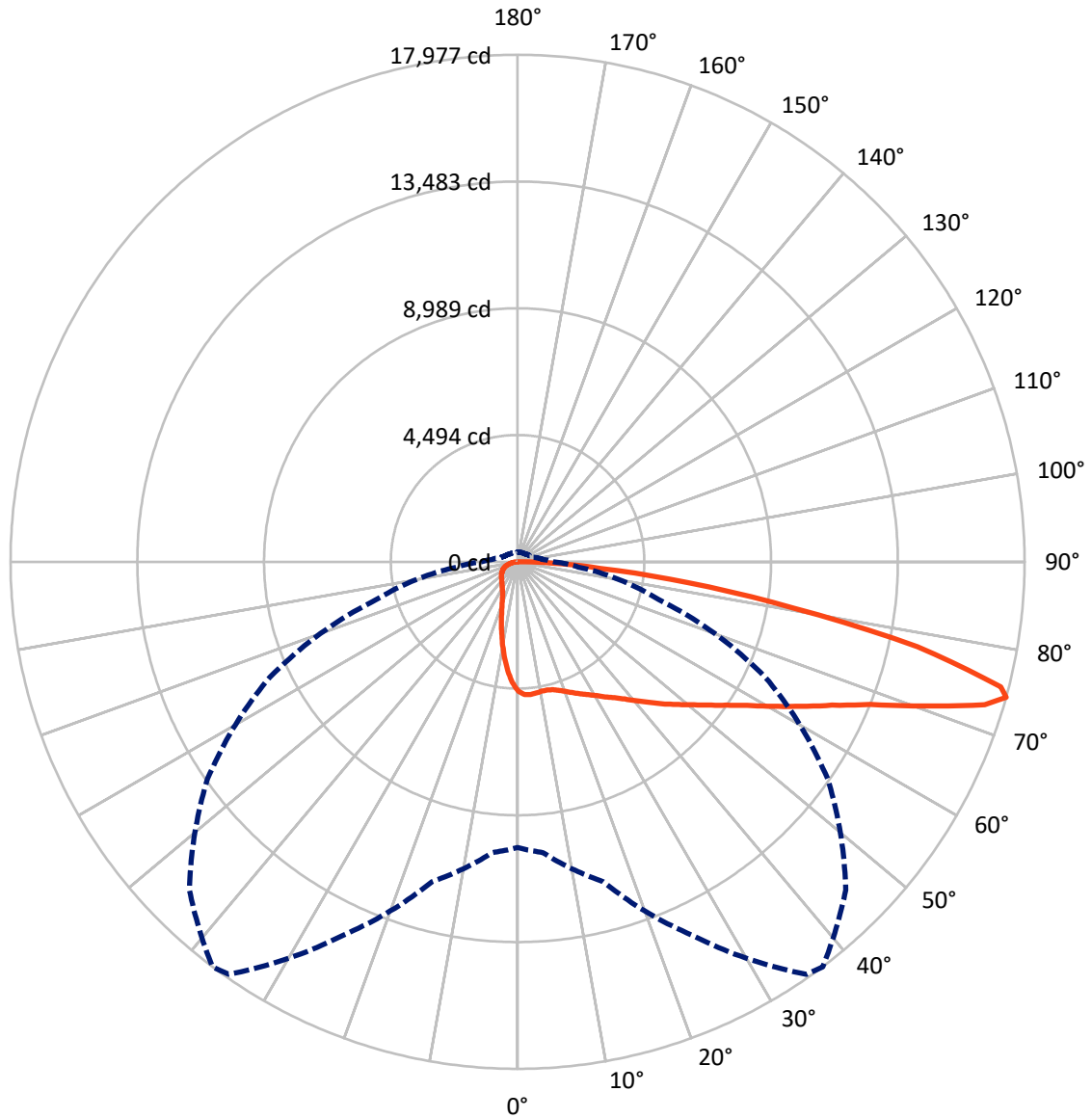
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3589.7	0.0	3589.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	22499.3	0.0	22499.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	26089.0	0.0	26089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.8	1.6
10°-20°	1037.6	4.0
20°-30°	1598.7	6.1
30°-40°	2324.8	8.9
40°-50°	3421.7	13.1
50°-60°	4805.2	18.4
60°-70°	6081.9	23.3
70°-80°	5355.3	20.5
80°-90°	1058.9	4.1
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°	26089.0	100.0
0°-180°	26089.0	100.0

**Coefficient of Utilization**



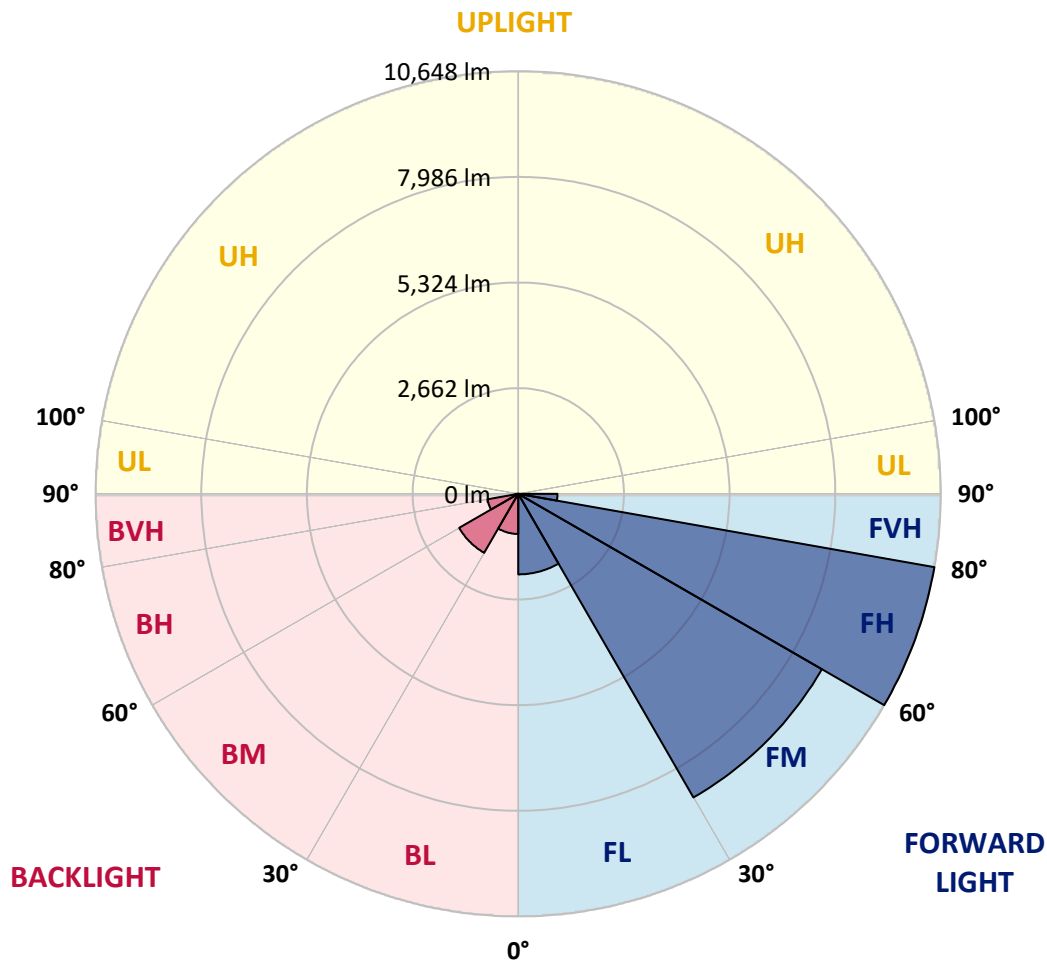
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2030.0	7.8			
FM (30°-60°)	8833.9	33.9			
FH (60°-80°)	10648.2	40.8			G4/12000
FVH (80°-90°)	987.2	3.8			G5
BL (0°-30°)	1011.1	3.9	B3/2500		
BM (30°-60°)	1717.8	6.6	B2/2500		
BH (60°-80°)	789.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	71.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8
2.5°	4753.9	4754.8	4753.9	4746.6	4729.1	4714.4	4702.5	4685.0	4646.4	4617.0	4572.9
5°	4799.0	4793.4	4789.8	4776.0	4748.4	4731.9	4708.9	4675.8	4612.4	4553.6	4481.9
7.5°	4777.8	4771.4	4763.1	4746.6	4715.3	4701.5	4669.4	4626.2	4549.9	4472.7	4369.8
10°	4712.6	4710.7	4707.1	4703.4	4676.7	4665.7	4636.3	4590.3	4515.0	4421.3	4300.9
12.5°	4640.0	4644.6	4659.3	4678.6	4666.6	4661.1	4642.7	4611.5	4534.3	4433.2	4288.0
15°	4594.0	4606.9	4646.4	4697.0	4707.1	4705.2	4700.6	4680.4	4598.6	4486.5	4317.4
17.5°	4578.4	4599.5	4674.9	4758.5	4787.9	4794.4	4796.2	4761.3	4670.3	4551.8	4347.7
20°	4606.9	4633.5	4743.8	4858.7	4905.6	4909.2	4901.0	4840.3	4738.3	4607.8	4364.3
22.5°	4693.3	4717.2	4855.0	4984.6	5037.9	5043.4	5018.6	4926.7	4810.0	4674.0	4387.3
25°	4859.6	4889.0	5026.9	5156.4	5184.0	5184.9	5149.1	5035.1	4903.7	4766.8	4436.9
27.5°	5076.5	5105.9	5230.0	5356.8	5342.1	5333.8	5285.1	5171.1	5025.9	4894.5	4525.1
30°	5318.2	5350.4	5468.0	5558.0	5523.1	5506.6	5467.1	5320.0	5196.0	5069.1	4660.2
32.5°	5568.2	5597.6	5700.5	5762.1	5717.9	5710.6	5650.9	5516.7	5417.4	5335.6	4878.9
35°	5824.5	5845.7	5946.8	5981.7	5922.9	5921.0	5904.5	5781.4	5718.9	5757.5	5196.9
37.5°	6086.5	6092.0	6178.4	6180.2	6162.7	6170.1	6187.5	6110.4	6127.8	6248.2	5610.4
40°	6319.9	6334.6	6397.1	6416.4	6446.7	6472.4	6559.7	6509.2	6644.3	6857.5	6125.1
42.5°	6492.7	6521.1	6621.3	6670.9	6769.3	6809.7	6932.8	6979.7	7251.7	7571.5	6737.1
45°	6638.8	6682.9	6843.7	6945.7	7112.1	7182.8	7359.3	7516.4	7938.2	8346.3	7381.3
47.5°	6796.8	6852.9	7054.2	7249.0	7475.1	7555.0	7875.7	8111.0	8670.7	9125.6	7988.8
50°	7029.3	7072.5	7269.2	7575.2	7857.4	7960.3	8404.2	8741.4	9415.0	9868.1	8515.3
52.5°	7353.7	7337.2	7503.5	7932.7	8311.3	8438.2	8968.4	9412.3	10169.5	10539.9	8960.1
55°	7680.0	7652.4	7769.1	8306.7	8840.7	8973.9	9589.6	10085.9	10887.3	11144.6	9301.1
57.5°	8043.0	7990.6	8088.9	8728.6	9443.5	9602.5	10285.3	10801.8	11593.0	11633.5	9518.0
60°	8417.0	8346.3	8456.5	9251.5	10209.0	10396.5	11099.5	11500.2	12258.4	12025.0	9587.8
62.5°	8744.2	8694.6	8864.6	9835.0	11072.0	11277.8	11899.1	12242.8	12914.5	12187.6	9336.0
65°	9030.0	9038.3	9332.3	10491.2	12034.2	12253.8	12816.2	13158.1	13431.0	12091.1	8746.9
67.5°	9370.9	9417.8	9919.6	11355.0	13245.4	13486.2	14150.6	14156.1	13719.6	11525.0	7587.2
70°	9868.1	9964.6	10727.4	12553.4	14967.6	15298.4	15811.2	14742.4	13314.3	9990.3	5969.7
72.5°	10309.2	10489.3	11586.6	13924.5	17066.5	17317.4	16782.6	14404.2	11620.6	7487.0	3719.1
74°	10130.0	10353.3	11742.8	14600.0	17856.9	17977.3	16454.5	13417.2	9688.9	5184.9	2161.5
75°	9744.0	9986.6	11514.9	14593.5	17756.7	17689.6	15662.3	12289.6	7979.6	3536.3	1438.2
77.5°	7863.8	8120.2	9702.7	12507.4	14559.5	14496.1	12031.4	8244.2	3494.9	1159.8	730.6
80°	4572.0	4767.7	6023.1	7942.8	9817.6	9932.4	7912.5	4079.4	1374.8	651.6	495.3
82.5°	2031.0	2166.1	2909.5	4054.6	5924.7	6072.7	4143.7	2137.6	849.1	396.1	297.8
85°	1332.5	1432.7	1766.3	1930.8	2821.3	2922.4	2028.2	1664.3	560.6	217.8	218.7
87.5°	958.5	1055.0	1312.3	1146.0	1294.9	1225.9	1103.7	1540.2	225.2	124.1	73.5
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°	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8	4596.8
2.5°	4553.6	4538.9	4505.8	4443.3	4408.4	4379.0	4330.3	4301.8	4288.9	4288.0	4293.5
5°	4440.6	4406.6	4321.1	4216.3	4132.7	4056.4	3961.8	3904.8	3864.3	3840.5	3846.9
7.5°	4309.1	4255.8	4121.7	3954.4	3820.2	3672.3	3526.2	3438.9	3370.8	3320.3	3329.5
10°	4219.1	4145.6	3949.8	3709.0	3485.7	3270.7	3069.4	2949.0	2853.5	2779.9	2785.5
12.5°	4188.7	4089.5	3818.4	3496.8	3183.4	2889.3	2626.5	2441.8	2343.4	2259.8	2266.2
15°	4193.3	4060.1	3708.1	3305.6	2911.4	2541.0	2222.1	2006.2	1872.9	1815.0	1815.9
17.5°	4197.0	4026.1	3592.3	3100.7	2642.1	2215.7	1869.2	1650.5	1524.6	1471.3	1472.2
20°	4185.1	3970.9	3449.0	2865.4	2360.9	1917.0	1581.6	1395.9	1300.4	1259.0	1259.0
22.5°	4169.5	3905.7	3287.2	2629.2	2083.3	1657.9	1375.7	1234.2	1179.1	1151.5	1150.6
25°	4176.8	3857.0	3121.8	2386.6	1827.9	1451.1	1238.8	1145.1	1108.3	1090.8	1089.9
27.5°	4216.3	3834.0	2969.3	2144.9	1604.6	1295.8	1146.9	1080.7	1056.8	1045.8	1045.8
30°	4288.0	3834.0	2810.3	1939.1	1418.9	1180.9	1076.1	1031.1	1014.6	1007.2	1007.2
32.5°	4413.0	3855.2	2656.8	1735.1	1271.0	1090.8	1017.3	987.0	974.1	970.5	970.5
35°	4628.0	3926.8	2507.0	1542.1	1151.5	1017.3	961.3	943.8	934.6	933.7	936.4
37.5°	4930.4	4073.0	2366.4	1399.6	1066.9	957.6	914.4	900.6	895.1	899.7	903.4
40°	5310.8	4271.5	2238.7	1271.0	1002.6	909.8	871.2	862.0	859.3	865.7	871.2
42.5°	5770.3	4539.8	2133.9	1178.1	953.0	869.4	834.4	823.4	820.7	828.0	835.4
45°	6267.5	4828.4	2060.4	1109.2	914.4	839.0	802.3	790.3	784.8	788.5	796.8
47.5°	6719.6	5101.3	2031.0	1060.5	877.6	813.3	773.8	759.1	749.9	748.1	754.5
50°	7101.0	5304.4	2044.7	1031.1	848.2	784.8	746.2	729.7	715.9	707.6	712.2
52.5°	7378.6	5432.1	2057.6	1018.2	825.3	753.6	715.9	700.3	681.9	668.1	668.1
55°	7579.8	5461.5	2029.1	1008.1	807.8	719.6	681.9	667.2	648.8	633.2	631.3
57.5°	7658.9	5378.8	1923.4	993.4	795.8	687.4	646.0	635.0	619.4	601.0	600.1
60°	7552.2	5123.4	1719.4	962.2	780.2	660.8	610.2	602.9	595.5	578.0	577.1
62.5°	7124.0	4562.8	1455.7	898.8	749.0	632.3	577.1	580.8	581.7	569.8	567.9
65°	6347.5	3792.7	1198.4	816.1	702.1	598.3	543.1	560.6	570.7	568.9	566.1
67.5°	5218.9	2951.8	1015.5	728.8	640.5	551.4	506.4	526.6	534.9	541.3	539.4
70°	3873.5	2081.5	840.0	636.9	566.1	496.3	458.6	468.7	463.2	470.5	473.3
72.5°	2159.6	1248.9	684.6	545.0	488.9	431.9	405.3	403.4	391.5	391.5	391.5
74°	1295.8	916.2	601.9	488.0	442.0	389.7	366.7	358.4	347.4	348.3	347.4
75°	1042.1	787.6	552.3	450.3	408.9	364.8	341.9	330.8	322.6	322.6	321.6
77.5°	658.0	598.3	444.8	358.4	327.2	300.5	284.9	270.2	270.2	269.3	268.3
80°	497.2	476.0	346.5	271.1	250.9	230.7	220.6	214.1	214.1	216.9	216.0
82.5°	340.9	358.4	243.5	189.3	179.2	164.5	162.7	163.6	160.8	157.1	156.2
85°	249.0	269.3	164.5	119.5	109.4	100.2	107.5	111.2	106.6	98.3	94.7
87.5°	95.6	176.4	88.2	49.6	45.9	39.5	45.9	47.8	51.5	40.4	41.4
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)