

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: P323971

Luminaire Tested: **GLEON-SA7C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29849 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

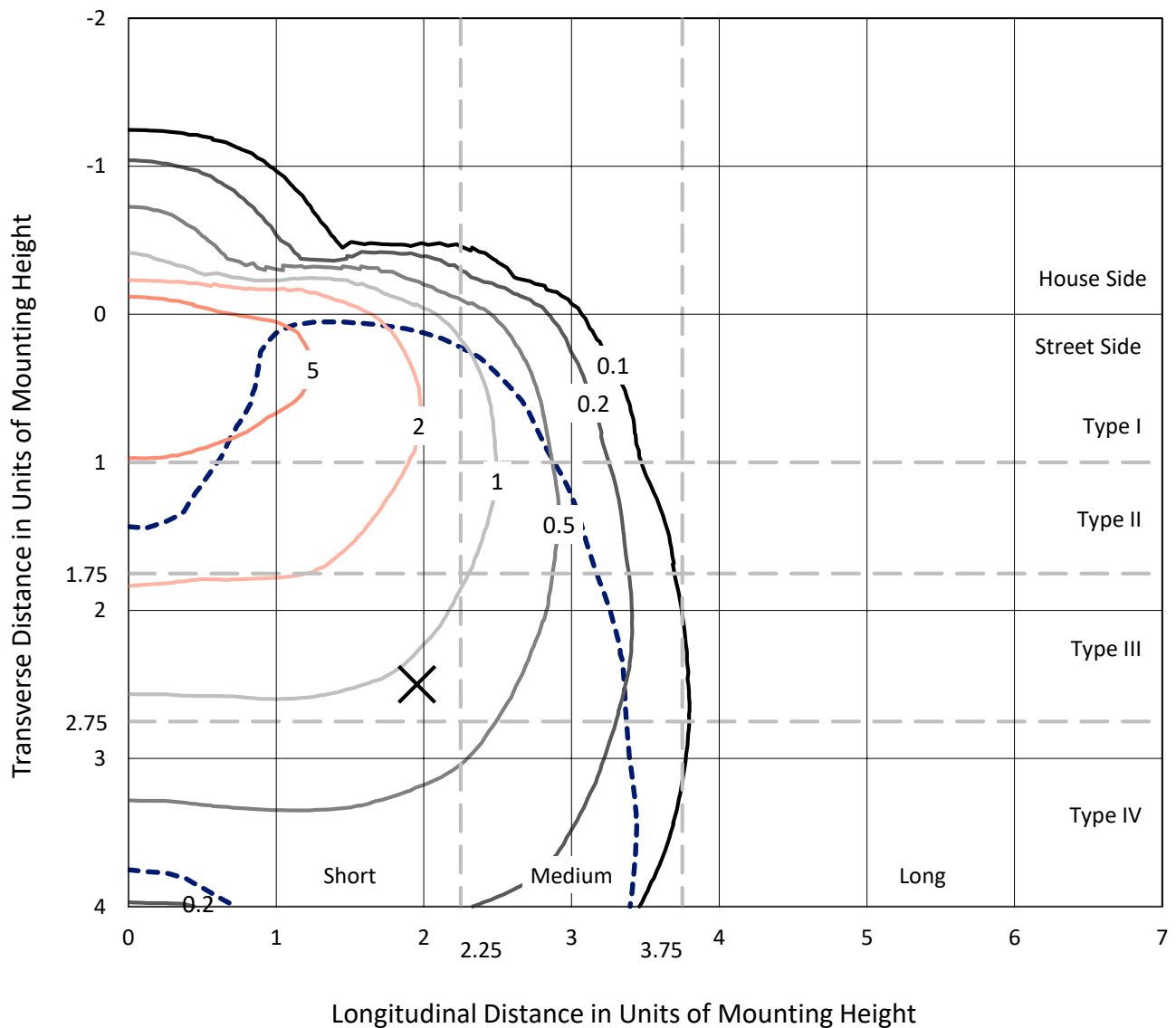
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

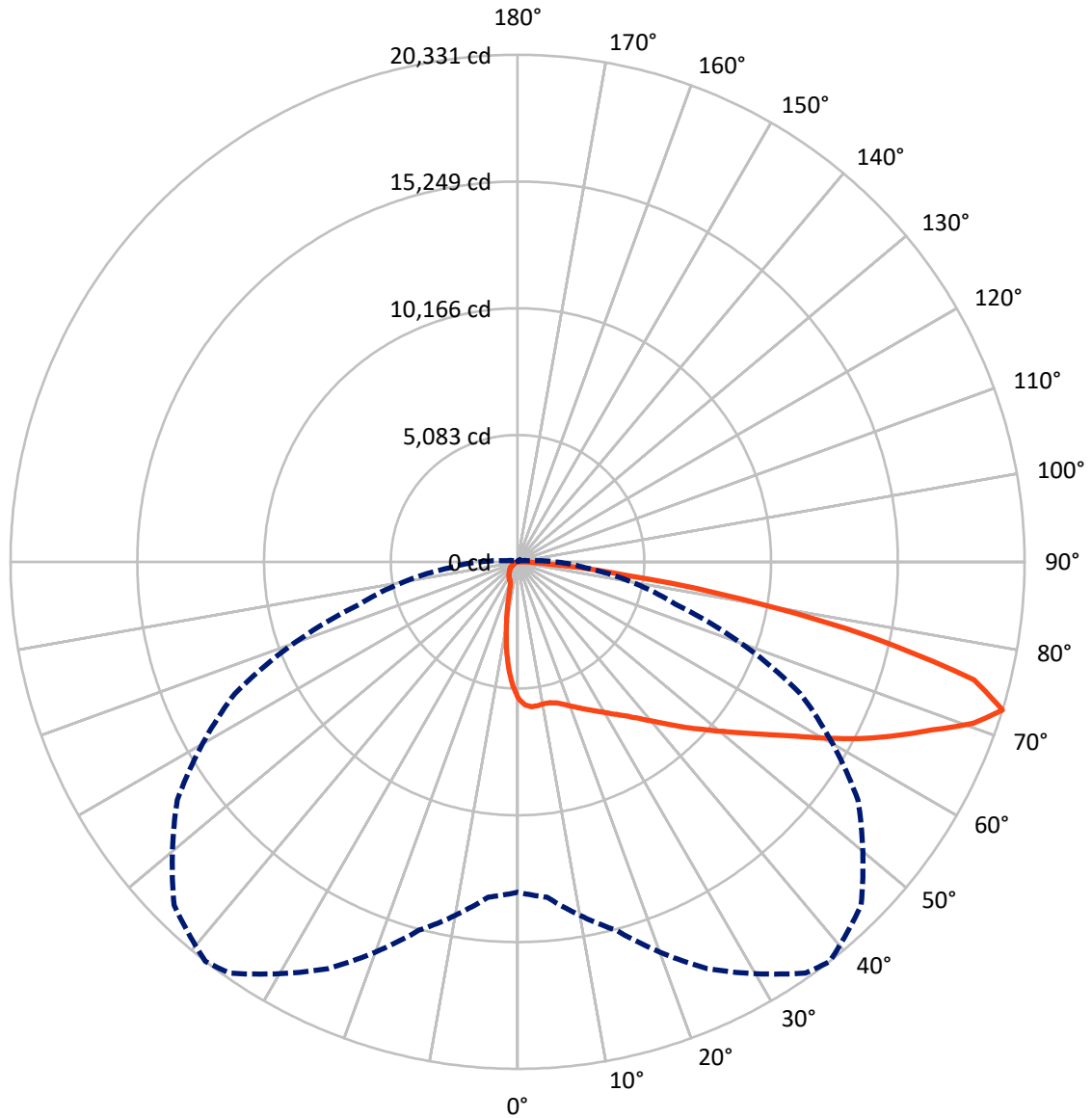
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2511.9	0.0	2511.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27337.1	0.0	27337.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	29849.0	0.0	29849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.8	1.6
10°-20°	1143.8	3.8
20°-30°	1819.2	6.1
30°-40°	2735.0	9.2
40°-50°	4172.5	14.0
50°-60°	5897.1	19.8
60°-70°	7396.9	24.8
70°-80°	5530.8	18.5
80°-90°	685.8	2.3
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°	29849.0	100.0
0°-180°	29849.0	100.0

Coefficient of Utilization



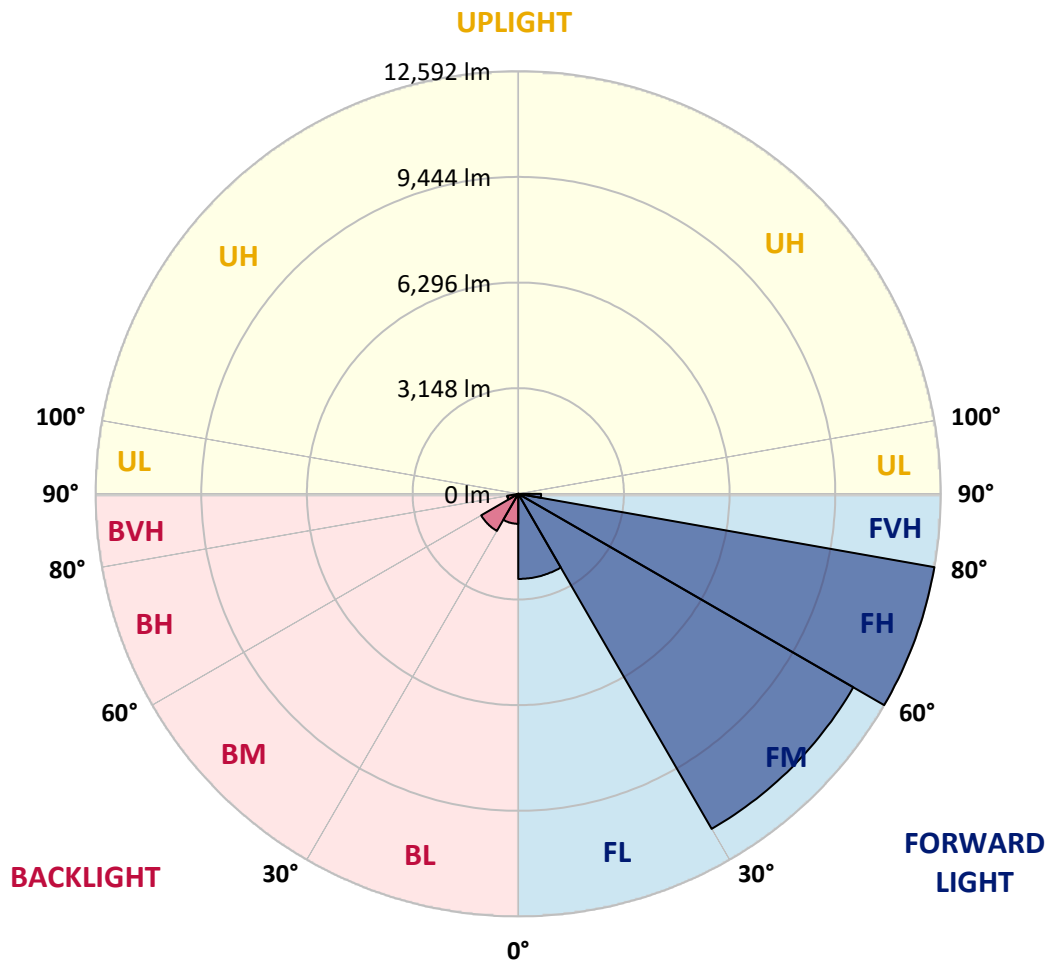
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2536.4	8.5			
FM (30°-60°)	11529.0	38.6			
FH (60°-80°)	12592.2	42.2			G5
FVH (80°-90°)	679.4	2.3			G4/750
BL (0°-30°)	894.4	3.0	B2/1000		
BM (30°-60°)	1275.6	4.3	B2/2500		
BH (60°-80°)	335.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1
2.5°	5826.3	5827.6	5813.9	5791.6	5763.1	5748.2	5723.4	5683.8	5641.6	5566.0	5484.2
5°	5945.3	5945.3	5928.0	5898.2	5852.3	5838.7	5791.6	5728.4	5641.6	5518.9	5381.3
7.5°	5932.9	5935.4	5911.9	5880.9	5835.0	5822.6	5765.6	5694.9	5587.1	5438.3	5262.3
10°	5868.5	5874.7	5856.1	5841.2	5799.0	5785.4	5732.1	5661.4	5553.6	5394.9	5192.9
12.5°	5802.8	5809.0	5815.2	5828.8	5802.8	5797.8	5755.7	5696.2	5593.3	5428.4	5200.3
15°	5760.6	5773.0	5817.6	5870.9	5877.1	5872.2	5844.9	5789.1	5685.0	5513.9	5253.6
17.5°	5760.6	5780.4	5873.4	5975.1	6011.0	6014.7	5991.2	5913.1	5789.1	5605.7	5303.2
20°	5809.0	5836.2	5981.3	6125.1	6184.6	6184.6	6138.7	6029.6	5884.6	5688.7	5336.7
22.5°	5932.9	5968.9	6151.1	6317.2	6380.4	6366.8	6304.8	6146.1	5983.7	5782.9	5378.8
25°	6177.1	6204.4	6394.1	6561.4	6599.9	6568.9	6490.8	6287.5	6110.2	5910.6	5455.7
27.5°	6492.0	6495.7	6691.6	6832.9	6809.4	6788.3	6690.3	6464.7	6292.4	6092.8	5588.3
30°	6837.9	6837.9	7010.2	7118.0	7046.1	7028.8	6930.8	6679.2	6525.5	6340.8	5776.7
32.5°	7172.6	7187.4	7327.5	7395.7	7315.1	7297.8	7202.3	6950.7	6835.4	6718.9	6070.5
35°	7496.1	7507.3	7639.9	7677.1	7600.2	7605.2	7537.0	7323.8	7280.4	7265.5	6513.1
37.5°	7809.7	7812.2	7947.3	7970.9	7932.5	7974.6	7980.8	7792.4	7873.0	7993.2	7136.6
40°	8096.1	8098.6	8232.5	8293.2	8358.9	8413.4	8461.8	8361.4	8627.9	8906.8	7879.2
42.5°	8325.4	8351.5	8521.3	8636.6	8810.1	8914.3	9045.7	9040.7	9526.6	9945.6	8776.7
45°	8527.5	8572.1	8808.9	9011.0	9308.5	9474.6	9680.4	9841.5	10538.2	11102.2	9685.3
47.5°	8794.0	8836.2	9106.4	9437.4	9834.1	10052.3	10393.2	10741.5	11650.2	12237.7	10572.9
50°	9169.6	9151.0	9417.6	9892.3	10401.8	10688.2	11174.1	11696.0	12753.4	13227.0	11094.8
52.5°	9570.0	9562.6	9759.7	10387.0	11071.2	11405.9	12048.1	12682.8	13808.4	13908.8	11334.0
55°	10065.9	10012.6	10178.7	10951.0	11865.8	12225.3	12981.5	13659.6	14648.8	14293.1	11454.3
57.5°	10585.3	10497.3	10656.0	11579.5	12762.1	13187.3	14015.4	14611.7	15207.9	14555.9	11453.0
60°	11122.1	11017.9	11206.4	12365.4	13875.3	14367.4	15136.0	15255.0	15729.8	14688.5	11368.8
62.5°	11570.8	11508.8	11789.0	13205.9	15118.7	15602.1	15982.7	15840.1	16169.9	14791.4	11171.6
65°	12045.6	12049.3	12501.8	14186.5	16440.1	16766.2	16798.4	16598.8	16538.1	14770.3	10504.7
67.5°	12687.7	12747.2	13502.2	15517.8	17725.6	17977.3	17974.8	17420.7	16807.1	13932.3	9025.8
70°	13367.1	13507.1	14655.0	17041.4	19128.9	19384.3	19252.9	17943.8	15825.3	11265.9	6387.9
72.5°	13253.0	13496.0	15295.9	18002.1	20136.7	20331.4	19477.2	16658.3	12508.0	6547.8	2719.8
75°	10224.6	10506.0	14025.3	17050.0	19079.3	18904.5	16735.2	12962.9	6835.4	1827.2	612.4
77.5°	5401.1	5551.1	9265.1	12989.0	14876.9	14511.2	11789.0	7191.2	2083.8	452.5	275.2
80°	2828.9	2863.6	4037.5	7369.7	9182.0	9184.5	6986.6	3158.6	859.1	231.8	184.7
82.5°	1514.8	1544.6	2133.4	3405.3	4811.0	4361.1	2675.1	1738.0	499.6	131.4	177.3
85°	364.5	370.7	1209.9	1555.8	1891.7	1351.2	794.6	1459.1	135.1	76.9	143.8
87.5°	140.1	142.6	448.8	673.1	482.2	312.4	371.9	544.2	17.4	29.8	22.3
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°	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1	5489.1
2.5°	5434.6	5402.4	5323.0	5222.6	5133.4	5068.9	4972.2	4909.0	4866.8	4865.6	4849.5
5°	5297.0	5231.3	5060.2	4856.9	4672.2	4506.1	4310.2	4155.3	4040.0	4021.4	3981.7
7.5°	5149.5	5041.6	4778.8	4461.5	4151.6	3836.7	3471.0	3244.1	3049.5	2956.5	2946.6
10°	5059.0	4907.7	4534.6	4075.9	3590.0	3078.0	2599.5	2268.5	2029.3	1961.1	1910.3
12.5°	5040.4	4840.8	4346.2	3714.0	3019.8	2342.9	1813.6	1461.5	1270.6	1209.9	1193.8
15°	5059.0	4809.8	4187.5	3355.7	2442.1	1662.4	1217.3	1012.8	940.9	923.5	922.3
17.5°	5070.1	4772.6	4007.8	2957.8	1881.8	1187.6	932.2	872.7	861.6	860.3	862.8
20°	5068.9	4715.6	3793.3	2514.0	1399.6	933.5	843.0	830.6	828.1	829.3	828.1
22.5°	5060.2	4648.7	3557.8	2056.6	1057.4	834.3	804.5	797.1	795.8	795.8	795.8
25°	5076.3	4595.4	3298.7	1619.0	871.5	788.4	769.8	763.6	762.4	762.4	759.9
27.5°	5134.6	4565.6	3014.8	1245.8	787.2	747.5	732.6	731.4	727.7	726.4	728.9
30°	5228.8	4565.6	2703.7	969.4	736.3	705.4	694.2	691.7	690.5	689.2	690.5
32.5°	5394.9	4600.3	2364.0	805.8	688.0	658.2	650.8	654.5	650.8	650.8	650.8
35°	5694.9	4704.4	2008.2	702.9	637.2	612.4	604.9	609.9	607.4	607.4	606.2
37.5°	6132.5	4897.8	1650.0	640.9	592.5	566.5	556.6	564.0	561.6	561.6	560.3
40°	6665.6	5179.2	1309.1	593.8	549.2	521.9	513.2	516.9	510.7	510.7	513.2
42.5°	7323.8	5536.2	1011.5	547.9	505.8	479.7	474.8	471.1	459.9	453.7	454.9
45°	8055.2	5908.1	788.4	503.3	464.9	443.8	436.4	426.4	407.8	395.4	396.7
47.5°	8708.5	6194.5	640.9	459.9	427.7	411.6	400.4	381.8	354.5	339.7	340.9
50°	9051.9	6237.9	545.4	416.5	393.0	376.9	360.7	332.2	300.0	283.9	282.6
52.5°	9139.9	6034.6	474.8	376.9	358.3	339.7	318.6	280.2	244.2	226.9	224.4
55°	9172.1	5724.7	411.6	339.7	321.1	300.0	272.7	229.3	195.9	178.5	177.3
57.5°	9065.5	5262.3	362.0	306.2	283.9	257.8	224.4	183.5	151.2	137.6	137.6
60°	8828.7	4636.3	323.5	270.2	245.4	215.7	181.0	142.6	112.8	101.7	101.7
62.5°	8356.4	3825.5	287.6	233.1	209.5	178.5	146.3	107.8	79.3	73.1	74.4
65°	7465.1	2902.0	251.6	199.6	178.5	147.5	114.0	76.9	53.3	53.3	55.8
67.5°	6087.9	2015.7	214.5	169.8	153.7	120.2	86.8	53.3	37.2	42.1	47.1
70°	4030.1	1130.6	183.5	140.1	131.4	95.5	64.5	35.9	29.8	39.7	48.3
72.5°	1521.0	440.1	153.7	112.8	114.0	73.1	45.9	27.3	27.3	43.4	57.0
75°	424.0	215.7	110.3	83.1	89.3	53.3	33.5	23.6	26.0	49.6	66.9
77.5°	249.2	158.7	71.9	48.3	60.7	37.2	22.3	18.6	22.3	42.1	64.5
80°	200.8	84.3	42.1	24.8	33.5	21.1	14.9	11.2	6.2	16.1	33.5
82.5°	200.8	50.8	19.8	17.4	17.4	11.2	7.4	5.0	1.2	0.0	8.7
85°	135.1	21.1	12.4	11.2	8.7	3.7	2.5	1.2	0.0	0.0	0.0
87.5°	22.3	8.7	5.0	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)