

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: P321411

Luminaire Tested: **GLEON-SA7C-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
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-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29686 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

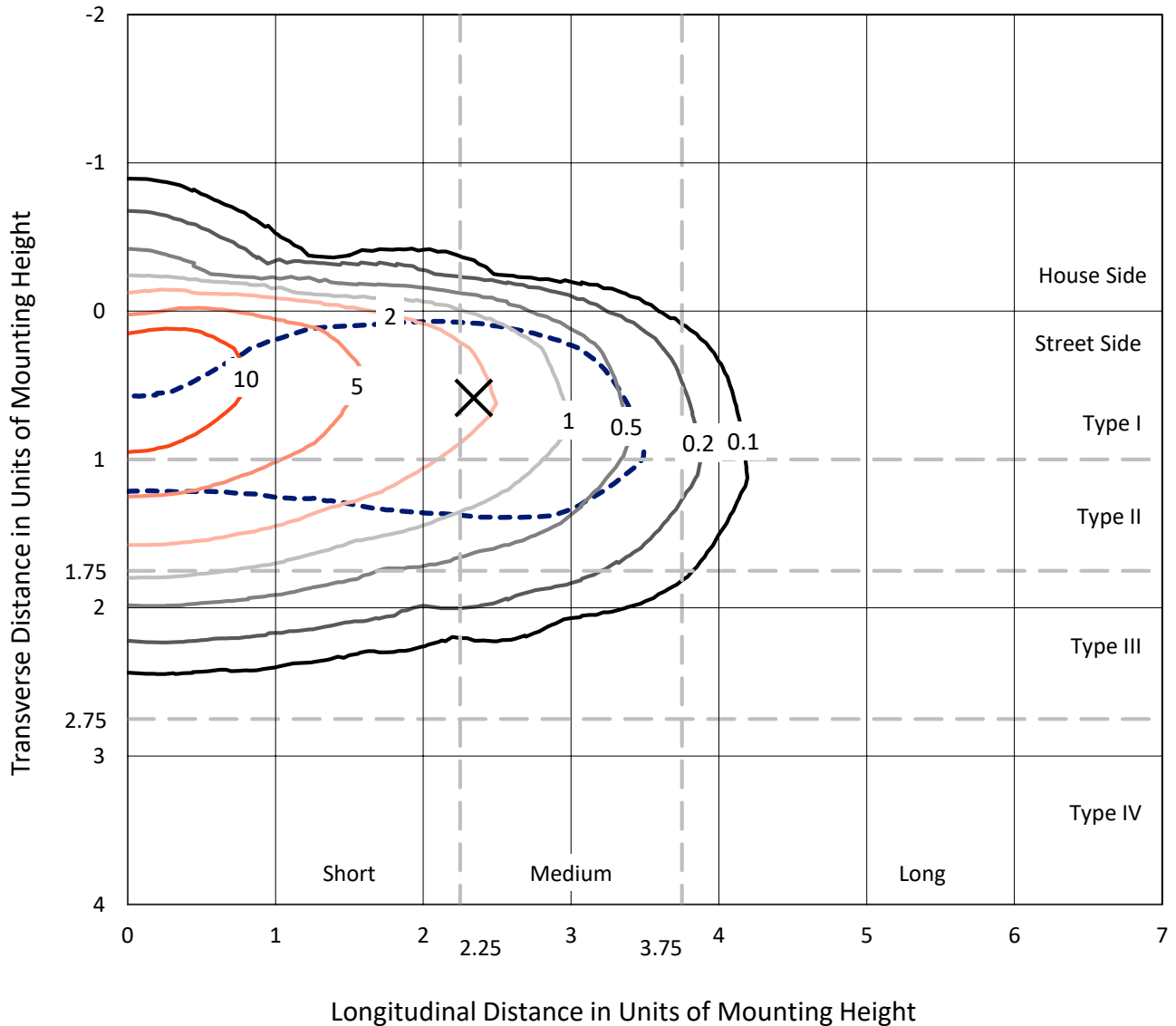
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

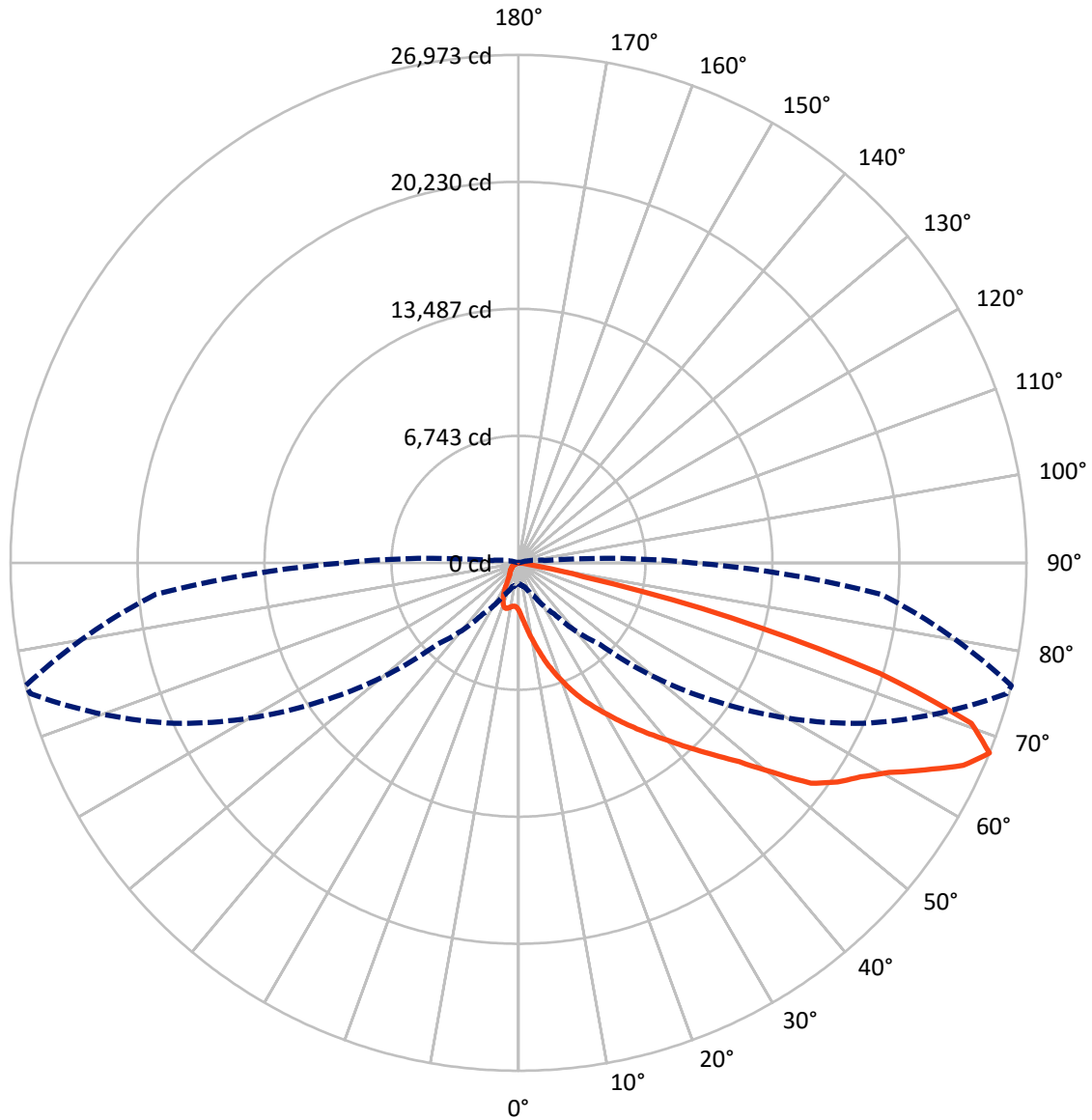
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1474.1	0.0	1474.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	28211.9	0.0	28211.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	29686.0	0.0	29686.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.1	1.1
10°-20°	1241.3	4.2
20°-30°	2525.7	8.5
30°-40°	4383.8	14.8
40°-50°	6193.7	20.9
50°-60°	7024.0	23.7
60°-70°	5825.7	19.6
70°-80°	2110.2	7.1
80°-90°	68.4	0.2
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°	29686.0	100.0
0°-180°	29686.0	100.0

**Coefficient of Utilization**

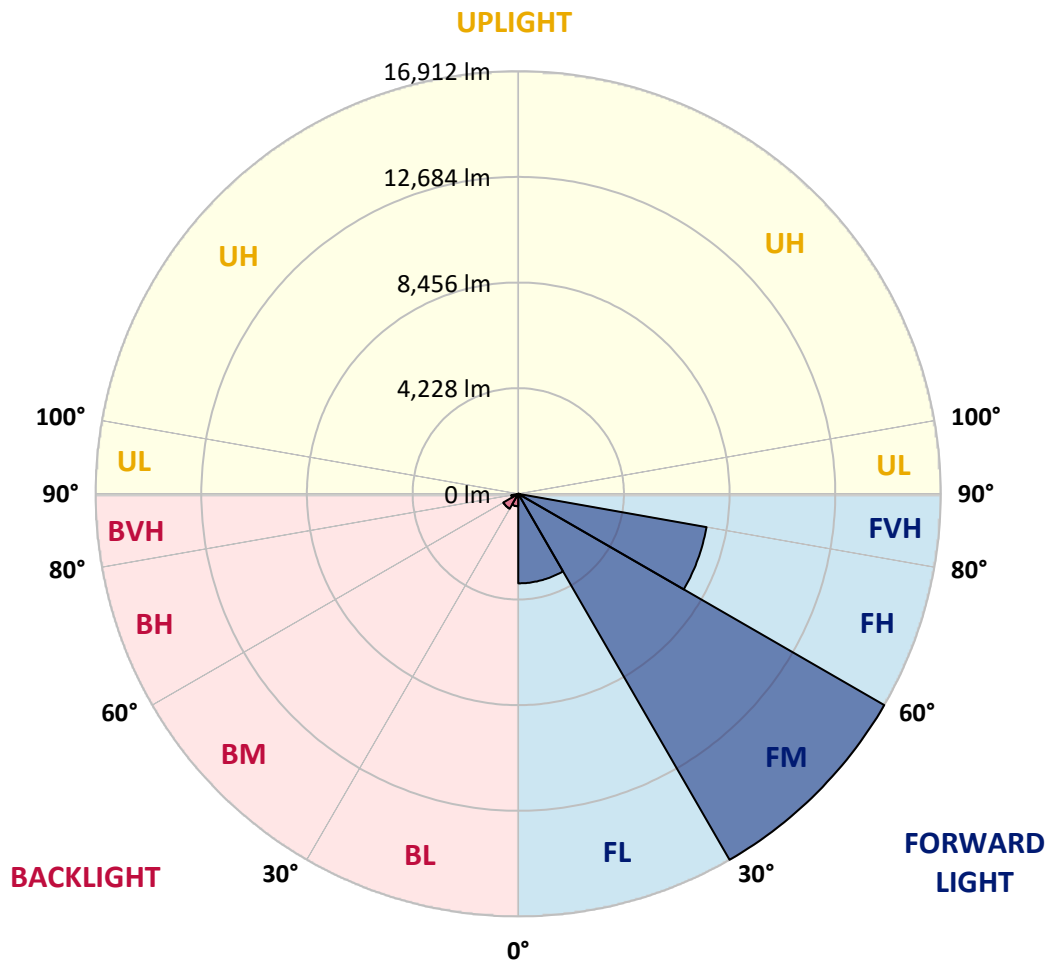


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.0	12.1			
FM (30°-60°)	16911.5	57.0			
FH (60°-80°)	7651.1	25.8			G4/12000
FVH (80°-90°)	66.3	0.2			G1/100
BL (0°-30°)	497.2	1.7	B1/500		
BM (30°-60°)	689.9	2.3	B1/1000		
BH (60°-80°)	284.9	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2
2.5°	3759.1	3674.6	3694.1	3639.5	3540.6	3337.7	3164.7	3000.8	2809.6	2803.1	2645.7
5°	5069.0	4997.4	4988.3	4877.8	4698.3	4353.6	4018.0	3635.6	3208.9	3177.7	2843.4
7.5°	6257.9	6200.6	6179.8	6048.4	5714.2	5378.6	4941.5	4379.6	3712.3	3655.1	3110.1
10°	7171.0	7143.7	7148.9	7055.2	6769.1	6456.9	5883.2	5166.5	4283.3	4194.9	3430.1
12.5°	7863.0	7869.5	7916.3	7859.1	7699.1	7467.5	6854.9	6005.5	4915.5	4794.5	3795.6
15°	8371.6	8404.1	8489.9	8561.5	8549.8	8349.4	7787.5	6857.5	5586.7	5452.7	4202.7
17.5°	8700.6	8737.1	8861.9	9020.6	9166.3	9119.5	8687.6	7679.6	6265.7	6110.9	4638.4
20°	8989.4	9032.3	9166.3	9375.7	9647.6	9706.1	9422.6	8476.9	6943.3	6754.7	5088.5
22.5°	9615.1	9613.8	9695.7	9818.0	10076.8	10227.7	10048.2	9217.0	7613.2	7416.8	5547.7
25°	10746.7	10703.8	10675.2	10578.9	10636.2	10729.8	10629.6	9909.0	8287.0	8088.0	6013.3
27.5°	12091.7	12117.7	11886.2	11627.3	11427.0	11330.7	11166.9	10550.3	8934.8	8716.3	6468.6
30°	13510.8	13518.6	13245.4	12915.0	12474.1	12108.6	11825.0	11163.0	9600.8	9362.7	6910.8
32.5°	14790.7	14740.0	14469.4	14019.4	13462.7	13051.6	12462.4	11847.1	10305.8	10075.5	7402.5
35°	15805.3	15745.5	15416.4	15006.6	14429.1	14015.5	13306.6	12530.0	11047.2	10822.2	7895.5
37.5°	16546.7	16476.5	16138.3	15716.8	15218.7	14978.0	14286.0	13272.8	11856.2	11614.3	8414.5
40°	16804.3	16743.1	16531.1	16222.8	15822.2	15767.6	15325.3	14127.3	12736.8	12479.3	9002.4
42.5°	16650.8	16590.9	16515.5	16411.4	16244.9	16297.0	16306.1	15101.6	13715.0	13461.4	9651.5
45°	16042.0	15988.7	16066.7	16218.9	16425.7	16683.3	17201.0	16148.7	14807.6	14537.1	10402.0
47.5°	15145.8	15106.8	15322.7	15702.5	16307.4	17017.6	18019.2	17249.1	16034.2	15783.2	11338.6
50°	13871.1	13864.6	14296.4	14989.7	15919.8	17178.9	18864.6	18500.4	17738.2	17474.1	12640.6
52.5°	11886.2	11899.2	12748.6	13858.1	15239.5	17069.6	19408.3	20108.1	19720.5	19446.1	13768.3
55°	9996.2	10074.2	10676.5	12276.4	14196.3	16663.8	19595.6	20858.7	20814.4	20554.3	14395.3
57.5°	8145.2	8287.0	8867.1	10361.7	12673.1	15728.5	19492.9	21183.9	21628.7	21429.7	15222.6
60°	6139.5	6204.5	6873.1	8270.1	10718.1	14022.0	18747.6	21360.8	22742.1	22604.3	16423.1
62.5°	3906.1	4068.7	4661.9	6009.4	8345.5	11652.0	17491.1	21358.2	24135.2	24210.7	17972.3
65°	2057.8	2247.7	2562.5	3724.0	5735.0	9005.0	15601.1	21157.8	25844.4	25949.8	19183.3
67.5°	1109.5	1164.2	1330.7	1932.9	3326.0	6100.5	12824.0	20169.3	26834.3	26973.4	19352.4
70°	811.7	841.6	904.0	1069.2	1674.1	3543.2	9357.5	17928.1	25558.2	25506.2	17194.5
72.5°	623.1	669.9	716.7	783.0	962.5	1891.3	5826.0	14038.9	20393.0	20049.6	12852.6
75°	491.7	499.5	565.8	625.7	721.9	1077.0	2587.2	8176.5	12446.8	11633.8	6665.0
77.5°	392.8	398.0	437.0	489.1	580.1	707.6	801.3	3216.7	3973.8	3545.8	1446.4
80°	232.8	245.8	325.2	377.2	481.3	446.2	292.7	698.5	620.5	561.9	243.2
82.5°	130.1	140.5	183.4	297.9	335.6	213.3	145.7	188.6	145.7	141.8	68.9
85°	0.0	6.5	118.4	184.7	136.6	46.8	61.1	62.4	42.9	40.3	27.3
87.5°	0.0	0.0	36.4	35.1	5.2	7.8	14.3	20.8	16.9	16.9	14.3
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°	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2	2518.2
2.5°	2567.7	2497.4	2364.7	2234.7	2125.4	2035.7	1955.0	1922.5	1896.5	1892.6	1871.8
5°	2682.1	2540.3	2286.7	2078.6	1939.4	1840.5	1756.0	1704.0	1663.6	1648.0	1633.7
7.5°	2855.1	2640.5	2276.3	2037.0	1870.5	1704.0	1547.9	1378.8	1273.4	1233.1	1209.7
10°	3065.8	2773.2	2315.3	2025.3	1733.9	1382.7	1123.8	909.2	822.1	793.5	785.6
12.5°	3311.7	2938.4	2383.0	1952.4	1442.5	982.1	775.2	702.4	682.9	673.8	673.8
15°	3593.9	3119.2	2431.1	1741.7	1066.6	742.7	671.2	637.4	616.6	604.8	606.1
17.5°	3882.7	3296.1	2407.7	1436.0	786.9	660.8	607.4	571.0	542.4	530.7	528.1
20°	4174.1	3460.0	2277.6	1069.2	666.0	599.6	539.8	499.5	470.9	459.2	456.6
22.5°	4475.8	3599.1	2048.7	784.3	598.3	532.0	473.5	433.1	405.8	395.4	390.2
25°	4769.8	3712.3	1728.7	634.8	534.6	468.3	412.3	374.6	349.9	339.5	338.2
27.5°	5044.3	3783.9	1358.0	560.6	478.7	411.0	360.3	326.5	305.7	297.9	296.6
30°	5291.4	3790.4	1004.2	506.0	429.2	361.6	314.8	284.9	266.7	258.8	256.2
32.5°	5541.2	3735.7	731.0	456.6	383.7	318.7	273.2	249.7	236.7	230.2	230.2
35°	5776.6	3609.6	569.7	413.6	339.5	277.1	240.6	223.7	215.9	209.4	209.4
37.5°	6006.8	3428.8	483.9	375.9	297.9	241.9	212.0	201.6	195.1	188.6	188.6
40°	6241.0	3201.1	439.7	340.8	264.1	214.6	188.6	179.5	173.0	167.8	166.5
42.5°	6528.4	2938.4	411.0	308.3	234.1	189.9	166.5	156.1	150.9	145.7	143.1
45°	6861.4	2712.0	387.6	275.8	209.4	169.1	144.4	134.0	126.2	119.7	118.4
47.5°	7341.4	2548.1	356.4	240.6	186.0	147.0	124.9	113.2	101.5	95.0	93.7
50°	7954.0	2412.9	316.1	209.4	162.6	124.9	104.1	89.8	79.3	72.8	72.8
52.5°	8258.4	2236.0	279.7	182.1	136.6	105.4	84.5	67.6	62.4	55.9	55.9
55°	8380.7	2100.7	243.2	154.8	113.2	87.1	66.3	52.0	48.1	44.2	42.9
57.5°	8724.1	2061.7	212.0	131.4	93.7	68.9	50.7	39.0	36.4	31.2	31.2
60°	9276.9	2081.2	183.4	111.9	75.4	53.3	37.7	29.9	27.3	22.1	22.1
62.5°	9873.9	2056.5	154.8	96.3	58.5	39.0	26.0	22.1	22.1	13.0	11.7
65°	9988.4	1831.4	132.7	79.3	45.5	28.6	16.9	14.3	19.5	2.6	0.0
67.5°	9270.4	1420.4	114.5	61.1	33.8	22.1	13.0	6.5	16.9	0.0	0.0
70°	7412.9	902.7	92.4	44.2	26.0	18.2	10.4	2.6	13.0	0.0	0.0
72.5°	5242.0	524.2	72.8	31.2	22.1	14.3	7.8	0.0	7.8	0.0	0.0
75°	2650.9	279.7	45.5	23.4	16.9	10.4	5.2	0.0	1.3	0.0	0.0
77.5°	573.6	130.1	28.6	16.9	11.7	6.5	2.6	0.0	0.0	0.0	0.0
80°	124.9	57.2	18.2	10.4	6.5	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	29.9	9.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.7	15.6	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	1.3	1.3	0.0	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)