

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: P323344

Luminaire Tested: **GLEON-SA0D-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46762 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

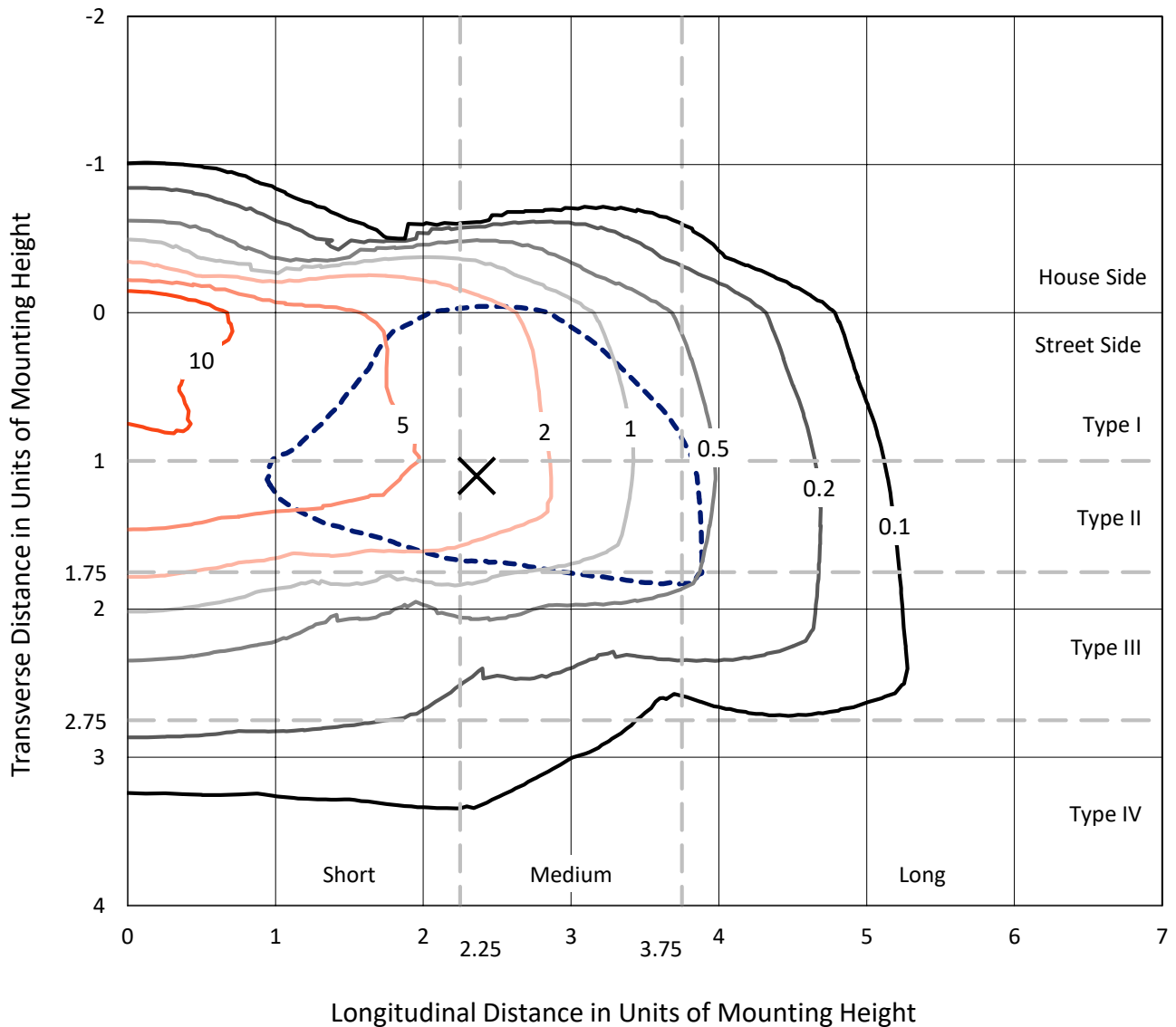
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

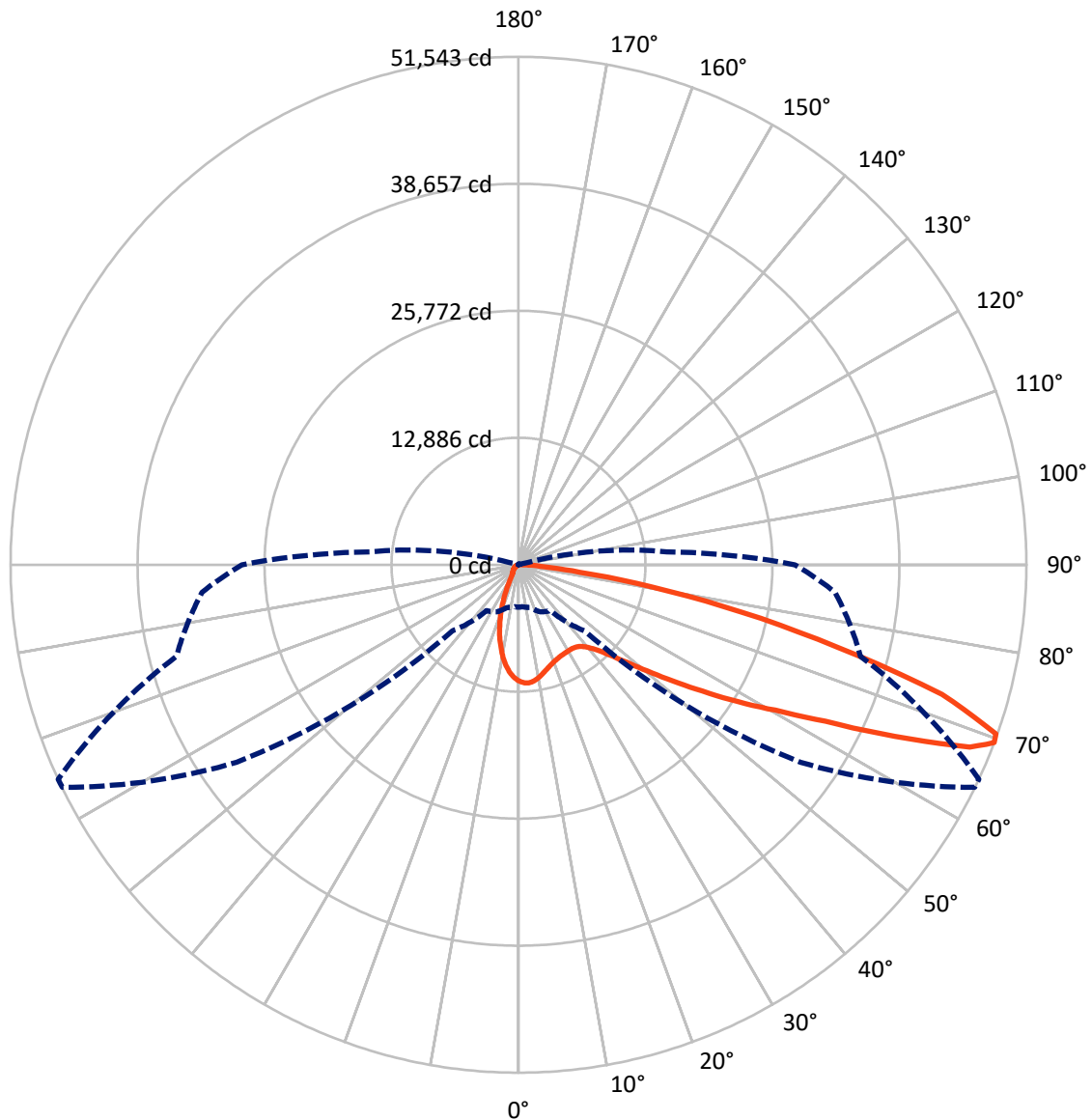
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5512.1	0.0	5512.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	41249.9	0.0	41249.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	46762.0	0.0	46762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.1	2.1
10°-20°	2163.1	4.6
20°-30°	2995.9	6.4
30°-40°	4177.3	8.9
40°-50°	6492.9	13.9
50°-60°	10423.6	22.3
60°-70°	11790.8	25.2
70°-80°	6924.8	14.8
80°-90°	805.5	1.7
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°	46762.0	100.0
0°-180°	46762.0	100.0

Coefficient of Utilization

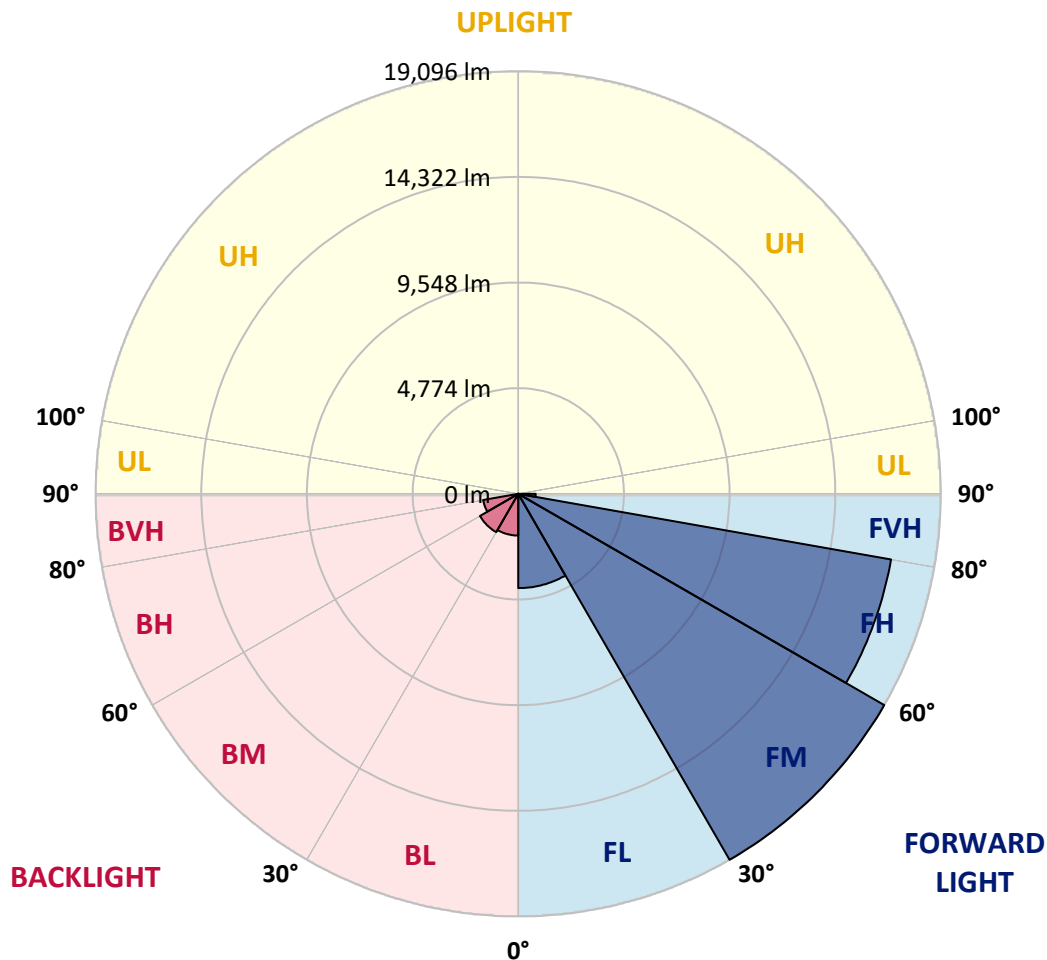


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4261.1	9.1			
FM (30°-60°)	19096.3	40.8			
FH (60°-80°)	17105.1	36.6			G5
FVH (80°-90°)	787.4	1.7			G5
BL (0°-30°)	1886.0	4.0	B3/2500		
BM (30°-60°)	1997.5	4.3	B2/2500		
BH (60°-80°)	1610.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	18.1	0.0			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8
2.5°	11921.7	11892.0	11915.8	11967.2	11992.9	11992.9	12012.7	11989.0	11996.9	11939.5	11856.4
5°	11175.7	11130.2	11195.5	11340.0	11518.1	11670.4	11896.0	12014.7	12026.6	12028.6	11931.6
7.5°	10372.4	10330.8	10427.8	10598.0	10827.5	11110.4	11504.2	11848.5	11868.3	12054.3	11983.1
10°	9719.4	9689.7	9802.5	9984.6	10253.7	10570.3	11053.1	11531.9	11589.3	12000.9	11975.1
12.5°	9201.0	9177.2	9284.1	9493.8	9768.9	10119.1	10623.7	11179.7	11256.9	11880.2	11935.6
15°	8823.1	8819.1	8908.1	9110.0	9414.7	9741.2	10257.6	10853.2	10942.3	11749.6	11929.6
17.5°	8625.2	8631.1	8696.4	8868.6	9129.8	9454.3	9948.9	10578.2	10675.1	11632.8	11959.3
20°	8605.4	8611.3	8647.0	8743.9	8955.6	9242.5	9697.6	10346.7	10447.6	11545.8	12006.8
22.5°	8779.5	8775.6	8785.5	8775.6	8894.3	9111.9	9531.4	10168.6	10285.3	11488.4	12044.4
25°	9113.9	9108.0	9104.0	9030.8	8951.7	9068.4	9462.2	10067.7	10178.5	11446.8	12066.2
27.5°	9578.9	9575.0	9569.0	9448.3	9210.9	9137.7	9470.1	10030.1	10123.1	11413.2	12062.2
30°	10190.3	10218.0	10210.1	10041.9	9671.9	9349.4	9553.2	10010.3	10091.4	11347.9	12020.6
32.5°	10908.6	10964.0	11007.5	10827.5	10364.5	9768.9	9745.1	10032.0	10091.4	11298.4	11945.5
35°	11654.6	11725.8	11886.1	11822.8	11213.3	10400.1	10075.6	10162.6	10212.1	11326.1	11909.8
37.5°	12388.7	12473.8	12822.0	13006.0	12325.4	11235.1	10590.0	10485.2	10510.9	11494.3	11949.4
40°	13241.5	13370.1	13898.4	14195.2	13653.1	12353.1	11359.8	11039.2	11049.1	11864.3	12133.4
42.5°	14361.5	14494.0	15065.9	15530.9	15149.0	13765.9	12404.5	11886.1	11876.2	12556.9	12566.8
45°	15726.8	15865.3	16456.9	16973.4	16801.2	15439.9	13742.1	13122.8	13110.9	13649.1	13387.9
47.5°	17274.1	17410.6	17939.0	18471.2	18657.2	17394.8	15445.8	14810.6	14782.9	15166.8	14656.3
50°	18601.8	18690.9	19177.6	19893.9	20732.9	19797.0	17565.0	16953.6	16923.9	17183.1	16518.2
52.5°	19084.6	19136.1	19630.8	20634.0	22727.4	23050.0	20349.0	19561.5	19539.7	19652.5	18997.6
55°	18107.1	18200.1	18807.6	20295.6	23807.8	26726.4	23863.2	22790.7	22626.5	22383.1	21589.7
57.5°	15443.8	15592.2	16245.2	18223.9	23303.2	29643.0	29027.6	26443.4	26202.0	24714.1	23697.0
60°	11571.5	11753.5	12295.7	14430.7	20610.2	30681.8	34670.9	30513.6	29969.5	26570.1	25634.2
62.5°	7940.6	8031.6	8399.6	9790.6	15178.7	28980.1	39392.1	35965.0	34971.7	28588.4	27729.6
65°	6064.7	6096.4	6246.8	6725.6	9038.7	23540.7	41269.9	43157.6	41956.5	31002.4	29904.2
67.5°	4887.4	4861.7	5069.4	5754.1	6052.9	14361.5	39079.5	49962.4	49400.4	34229.7	32092.7
69°	4309.6	4274.0	4485.7	5281.2	5684.8	9493.8	34936.1	51507.7	51543.3	35933.3	32243.0
70°	3878.3	3902.0	4111.8	5000.2	5560.2	7451.8	30978.6	51114.0	51394.9	36570.5	31340.7
72.5°	2590.1	2653.4	3074.9	4151.3	5346.5	5639.3	18704.7	43862.0	44942.4	35135.9	26888.7
75°	1460.3	1507.8	2008.4	3130.3	5037.8	5370.2	9879.7	32314.3	33359.0	29381.8	20734.9
77.5°	716.3	742.0	1135.8	2020.3	4212.7	5116.9	5603.7	21949.8	23143.0	19177.6	11727.8
80°	302.7	316.6	567.9	1246.6	3011.6	4883.4	4161.2	13508.6	13657.0	7513.2	3124.4
82.5°	116.7	120.7	239.4	777.6	1913.4	3807.0	3480.5	6405.1	6250.7	1414.8	712.3
85°	13.9	15.8	87.1	467.0	1064.5	1958.9	2827.6	2760.3	2554.5	281.0	366.1
87.5°	0.0	0.0	5.9	142.5	316.6	918.1	1470.2	1145.7	1032.9	91.0	190.0
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°	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8	11816.8
2.5°	11787.2	11767.4	11660.5	11506.2	11359.8	11177.7	11003.6	10898.7	10815.6	10760.2	10825.5
5°	11818.8	11731.8	11407.2	10991.7	10584.1	10125.0	9697.6	9335.5	9193.1	9034.8	9106.0
7.5°	11808.9	11644.7	11061.0	10320.9	9573.0	8799.3	8067.2	7503.3	7210.4	6923.5	6996.7
10°	11759.5	11482.4	10598.0	9501.8	8381.8	7269.8	6230.9	5441.4	5000.2	4600.5	4657.9
12.5°	11650.6	11264.8	10051.8	8563.8	7066.0	5599.7	4382.8	3371.7	2829.6	2590.1	2619.8
15°	11585.3	11053.1	9474.1	7614.1	5661.1	3900.0	2679.2	1992.6	1745.2	1666.1	1676.0
17.5°	11553.7	10849.3	8876.5	6527.8	4224.5	2483.3	1731.4	1527.6	1474.1	1460.3	1464.2
20°	11522.0	10643.5	8261.1	5453.3	2910.7	1670.0	1422.7	1363.3	1343.5	1325.7	1329.7
22.5°	11468.6	10445.6	7600.2	4365.0	1962.9	1355.4	1282.2	1224.8	1183.3	1161.5	1165.5
25°	11403.3	10237.8	6925.5	3251.0	1432.6	1209.0	1139.7	1058.6	1009.1	969.6	971.5
27.5°	11298.4	9982.6	6229.0	2366.5	1203.1	1082.4	989.4	900.3	817.2	771.7	771.7
30°	11152.0	9693.7	5455.3	1693.8	1078.4	957.7	844.9	734.1	645.1	603.5	599.5
32.5°	10989.7	9392.9	4673.7	1284.2	979.5	841.0	712.3	595.6	516.4	482.8	480.8
35°	10851.2	9068.4	3894.1	1076.4	880.5	728.2	587.7	488.7	425.4	397.7	395.7
37.5°	10762.2	8743.9	3134.3	961.7	791.5	623.3	492.7	403.7	358.1	336.4	334.4
40°	10748.3	8502.5	2439.7	874.6	708.4	530.3	411.6	342.3	300.8	277.0	275.0
42.5°	10928.4	8364.0	1871.9	801.4	623.3	449.2	350.2	292.8	249.3	225.6	223.6
45°	11401.3	8407.5	1440.5	736.1	538.2	379.9	296.8	243.4	203.8	186.0	182.0
47.5°	12264.0	8708.3	1145.7	670.8	457.1	322.5	253.3	201.8	168.2	150.4	148.4
50°	13799.5	9414.7	957.7	599.5	381.9	275.0	209.7	164.2	136.5	120.7	118.7
52.5°	15837.6	10673.1	854.8	530.3	316.6	233.5	172.1	130.6	106.9	95.0	93.0
55°	18085.4	12196.8	787.5	455.1	259.2	193.9	136.5	102.9	83.1	73.2	69.3
57.5°	20279.8	13516.5	724.2	381.9	215.7	158.3	108.8	81.1	65.3	55.4	53.4
60°	22296.1	14729.5	651.0	306.7	176.1	124.7	85.1	63.3	51.4	41.6	41.6
62.5°	24454.8	15667.4	550.1	239.4	144.4	95.0	69.3	57.4	41.6	35.6	33.6
65°	26742.2	16363.9	431.4	186.0	112.8	71.2	57.4	59.4	33.6	25.7	23.7
67.5°	28432.0	16225.4	318.6	146.4	87.1	55.4	55.4	63.3	29.7	19.8	17.8
69°	28060.0	15099.5	267.1	126.6	75.2	47.5	51.4	63.3	27.7	17.8	15.8
70°	26981.7	13852.9	235.5	112.8	67.3	43.5	49.5	61.3	25.7	17.8	15.8
72.5°	22470.2	10433.7	184.0	85.1	53.4	35.6	41.6	53.4	25.7	17.8	13.9
75°	16902.1	6678.1	140.5	61.3	39.6	27.7	31.7	39.6	25.7	15.8	13.9
77.5°	9197.0	2408.1	100.9	41.6	27.7	21.8	21.8	29.7	23.7	11.9	7.9
80°	2364.6	605.5	63.3	27.7	21.8	15.8	13.9	19.8	13.9	2.0	0.0
82.5°	583.7	136.5	33.6	19.8	15.8	5.9	5.9	9.9	5.9	0.0	0.0
85°	320.6	67.3	21.8	13.9	7.9	0.0	0.0	2.0	0.0	0.0	0.0
87.5°	164.2	19.8	5.9	4.0	2.0	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)