

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: P322704

Luminaire Tested: **GLEON-SA0D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40093 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

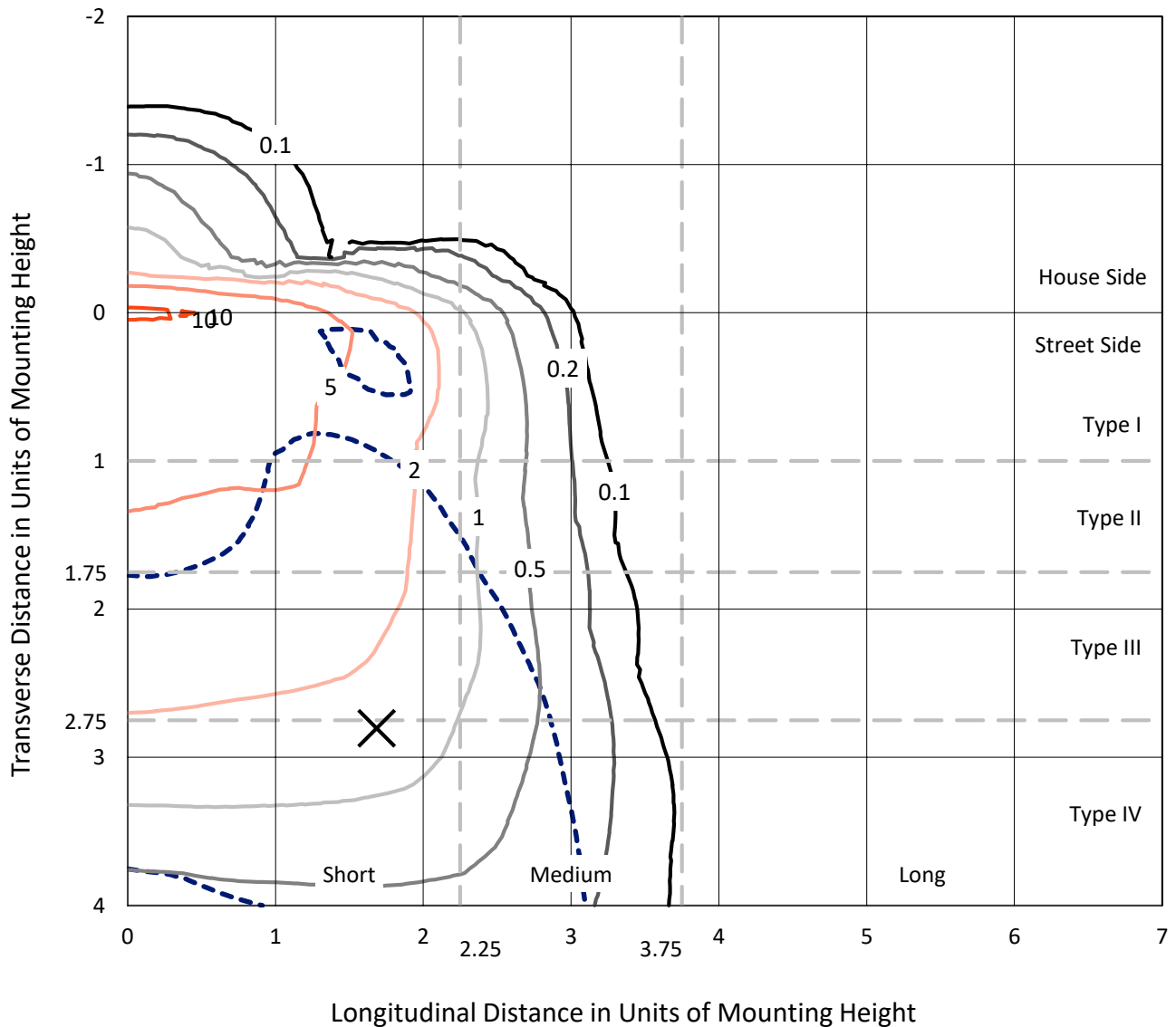
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

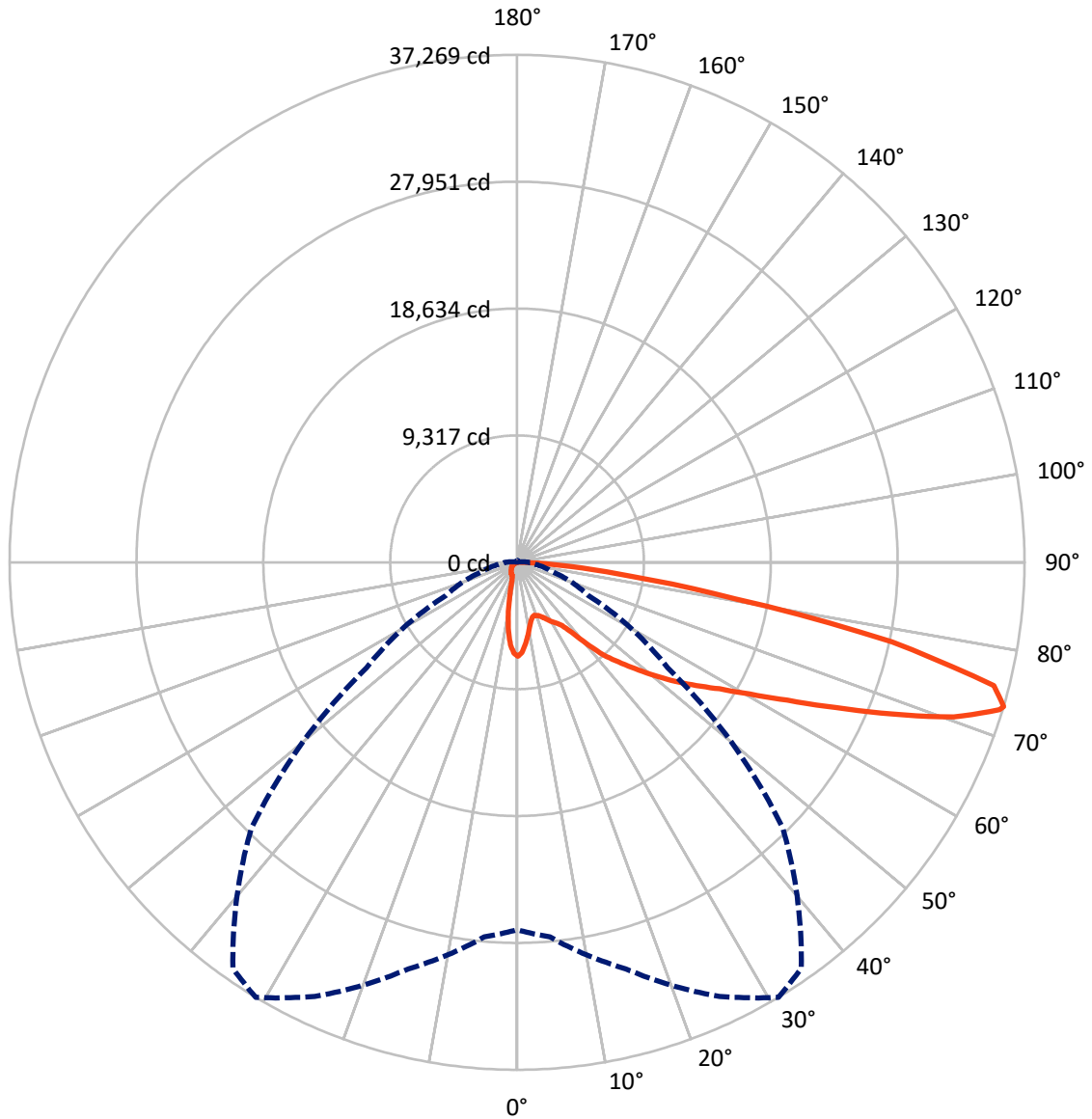
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3654.6	0.0	3654.6
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	36438.4	0.0	36438.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	40093.0	0.0	40093.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.9	1.4
10°-20°	1241.9	3.1
20°-30°	1860.7	4.6
30°-40°	2960.3	7.4
40°-50°	5286.3	13.2
50°-60°	8202.9	20.5
60°-70°	10904.6	27.2
70°-80°	8202.5	20.5
80°-90°	861.9	2.1
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°	40093.0	100.0
0°-180°	40093.0	100.0



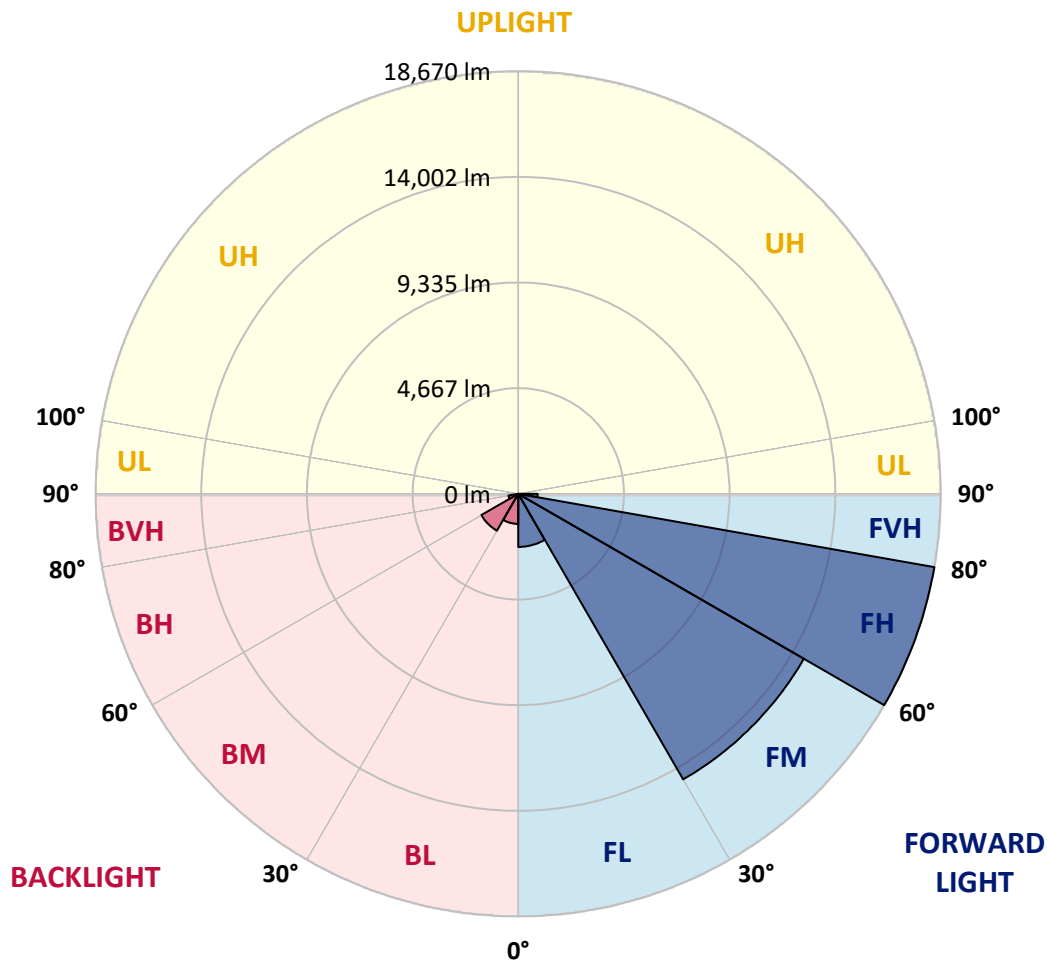
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2345.5	5.9			
FM (30°-60°)	14568.4	36.3			
FH (60°-80°)	18669.8	46.6			G5
FVH (80°-90°)	854.7	2.1			G5
BL (0°-30°)	1329.0	3.3	B3/2500		
BM (30°-60°)	1881.1	4.7	B2/2500		
BH (60°-80°)	437.3	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1
2.5°	6537.1	6564.6	6594.0	6599.9	6648.9	6650.9	6721.5	6774.5	6827.5	6878.5	6896.1
5°	5866.1	5911.2	5964.2	6017.2	6121.2	6162.4	6335.0	6511.6	6680.3	6841.2	6919.7
7.5°	5150.0	5201.0	5275.6	5407.0	5522.8	5603.2	5875.9	6189.8	6503.7	6800.0	6970.7
10°	4496.7	4543.8	4622.3	4761.6	4940.1	5050.0	5416.8	5852.4	6313.4	6762.7	7047.2
12.5°	4080.8	4106.3	4149.4	4298.5	4459.4	4583.0	5014.6	5554.2	6156.5	6760.7	7170.8
15°	4004.3	4012.1	3976.8	4043.5	4169.1	4288.7	4726.2	5312.9	6036.8	6792.1	7331.7
17.5°	4125.9	4122.0	4004.3	3996.4	4096.5	4194.6	4585.0	5146.1	5952.4	6864.7	7539.6
20°	4310.3	4296.6	4092.5	4055.3	4161.2	4253.4	4575.2	5083.3	5921.1	6986.4	7792.7
22.5°	4555.6	4532.0	4212.2	4173.0	4286.8	4382.9	4696.8	5144.1	5948.5	7149.2	8087.0
25°	4859.7	4824.3	4418.2	4375.1	4490.8	4587.0	4914.6	5318.7	6030.9	7347.4	8459.8
27.5°	5203.0	5152.0	4747.8	4636.0	4767.4	4867.5	5205.0	5585.6	6160.4	7557.3	8916.9
30°	5526.7	5460.0	5095.1	4910.7	5071.5	5183.4	5518.9	5903.4	6368.4	7881.0	9542.7
32.5°	5852.4	5777.8	5405.1	5185.3	5330.5	5452.2	5842.6	6340.9	6758.8	8375.4	10374.6
35°	6601.8	6523.4	6066.2	5703.3	5701.3	5770.0	6295.8	6939.3	7274.8	9064.0	11367.3
37.5°	7863.3	7818.2	7382.7	6694.0	6509.6	6433.1	6913.8	7653.4	8016.4	10011.6	12487.6
40°	9244.5	9205.3	8716.8	8092.9	7812.3	7624.0	7800.6	8648.1	9064.0	11169.2	13631.4
42.5°	10804.2	10617.9	9746.8	9560.4	9309.3	9166.1	9007.1	9874.3	10351.0	12428.7	14765.4
45°	12220.8	11906.8	10776.8	10494.3	10437.4	10472.7	10561.0	11522.3	11798.9	13925.7	15895.4
47.5°	13064.4	12817.2	11950.0	11679.3	11663.6	11897.0	12564.1	13384.2	13240.9	15230.3	16890.1
50°	13866.8	13643.1	12923.1	12989.8	13062.4	13380.2	14837.9	15299.0	14557.4	16413.4	17802.4
52.5°	14516.2	14174.8	13798.1	14172.9	14529.9	15042.0	17184.4	17017.6	15491.3	17355.1	18583.2
55°	14890.9	14735.9	14918.4	15295.1	15966.0	16797.9	19399.4	18447.9	16174.0	18214.4	19103.1
57.5°	16264.3	15960.2	16323.1	16648.8	17523.8	18687.2	21296.6	19513.2	16666.4	18746.1	19222.8
60°	17926.0	17680.8	17894.6	18436.1	19617.2	20984.6	23070.1	20382.3	16923.5	19087.4	18912.8
62.5°	20570.6	20246.9	20113.5	20719.8	22285.4	23778.4	24416.0	20984.6	16866.6	18936.4	17849.5
65°	24113.9	23778.4	23182.0	23731.3	25722.6	26776.2	25920.8	21112.1	16474.2	17714.1	15161.7
67.5°	27743.4	27500.1	26990.0	27916.0	29713.2	30052.6	27511.9	20802.2	15210.7	14363.2	10712.0
70°	30140.9	30036.9	30368.4	32416.7	34019.6	33921.5	28971.6	19136.5	11855.8	8832.5	5299.1
72.5°	28412.4	28910.7	31359.2	35073.1	37031.1	36230.6	28222.1	14694.7	6776.4	3398.0	1532.3
73°	26980.2	27617.8	30913.8	35173.2	37268.5	36391.5	27592.3	13488.1	5775.9	2681.9	1161.5
75°	18769.6	19552.4	25593.1	32758.0	36158.0	34672.9	22999.5	8255.7	2676.0	1188.9	468.9
77.5°	9113.1	9691.8	14092.4	23668.5	28120.1	27090.1	14318.0	3076.3	1208.5	743.6	215.8
80°	3402.0	3782.6	6117.2	12046.1	16250.5	16676.3	6297.7	1163.4	804.4	598.4	109.9
82.5°	890.7	992.7	2256.2	5371.7	8328.3	8716.8	1985.5	586.6	588.6	492.4	66.7
85°	284.5	325.7	704.3	2411.2	3923.8	3445.1	517.9	284.5	427.7	366.9	37.3
87.5°	35.3	45.1	223.7	567.0	865.2	480.7	80.4	84.4	182.5	204.0	21.6
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°	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1	6898.1
2.5°	6913.8	6904.0	6905.9	6854.9	6821.6	6754.9	6686.2	6654.8	6621.5	6607.7	6621.5
5°	6949.1	6931.4	6880.4	6723.5	6556.7	6340.9	6138.8	5985.8	5793.5	5740.6	5795.5
7.5°	7004.0	6968.7	6819.6	6499.8	6129.0	5717.0	5254.0	4916.6	4639.9	4461.4	4526.1
10°	7084.5	7017.8	6717.6	6174.1	5511.0	4781.2	4123.9	3611.9	3248.9	3099.8	3093.9
12.5°	7219.8	7094.3	6592.0	5750.4	4755.7	3782.6	2921.3	2366.1	2071.8	1881.5	1877.5
15°	7368.9	7184.5	6433.1	5242.2	3876.7	2709.4	1881.5	1459.7	1269.4	1208.5	1200.7
17.5°	7551.4	7288.5	6227.1	4616.4	2956.6	1795.1	1228.2	1106.5	1098.7	1092.8	1092.8
20°	7780.9	7412.1	5962.3	3900.3	2097.3	1198.7	1043.7	1051.6	1055.5	1047.7	1049.6
22.5°	8047.8	7537.7	5646.4	3131.2	1418.5	1002.5	998.6	1008.4	1012.3	1008.4	1010.4
25°	8357.7	7682.8	5261.8	2324.9	1024.1	951.5	961.3	975.1	984.9	984.9	984.9
27.5°	8742.3	7859.4	4798.8	1622.5	884.8	898.6	926.0	951.5	965.3	969.2	969.2
30°	9242.6	8079.2	4243.6	1112.4	804.4	827.9	878.9	928.0	953.5	957.4	959.4
32.5°	9874.3	8326.4	3600.1	822.0	735.7	753.4	808.3	890.7	939.8	947.6	947.6
35°	10598.2	8612.8	2907.6	716.1	686.7	692.6	735.7	829.9	916.2	937.8	939.8
37.5°	11390.9	8895.3	2211.1	669.0	645.5	645.5	676.9	757.3	859.3	926.0	933.9
40°	12130.5	9066.0	1549.9	631.7	608.2	608.2	635.7	694.5	790.7	890.7	912.3
42.5°	12813.2	9124.9	1079.1	596.4	572.9	578.8	602.3	649.4	722.0	822.0	841.7
45°	13515.6	9115.0	786.7	555.2	537.6	555.2	572.9	608.2	661.2	718.1	722.0
47.5°	14045.3	9032.6	623.9	516.0	504.2	527.8	543.4	567.0	596.4	592.5	592.5
50°	14541.7	8832.5	502.2	463.0	470.9	498.3	506.2	514.0	516.0	478.7	474.8
52.5°	14918.4	8520.6	402.2	406.1	437.5	465.0	457.1	445.4	425.7	380.6	372.8
55°	15043.9	7920.2	315.9	335.5	388.5	423.8	394.3	368.8	331.6	294.3	286.4
57.5°	14816.4	7145.3	257.0	260.9	327.6	357.1	323.7	294.3	253.1	221.7	215.8
60°	14333.7	6284.0	211.9	196.2	253.1	278.6	257.0	227.6	190.3	166.8	164.8
62.5°	13376.3	5365.8	174.6	153.0	192.3	213.8	200.1	178.5	147.1	131.4	129.5
65°	11363.4	4292.7	141.3	123.6	149.1	166.8	155.0	139.3	115.8	104.0	102.0
67.5°	7932.0	2901.7	115.8	102.0	117.7	131.4	121.6	113.8	92.2	90.2	92.2
70°	3825.7	1398.8	96.1	82.4	92.2	102.0	98.1	92.2	88.3	102.0	117.7
72.5°	1096.7	468.9	76.5	68.7	74.6	80.4	84.4	82.4	96.1	123.6	143.2
73°	843.6	378.6	72.6	64.7	70.6	78.5	82.4	80.4	98.1	125.6	143.2
75°	361.0	182.5	54.9	53.0	58.9	68.7	72.6	72.6	98.1	127.5	137.3
77.5°	162.8	98.1	35.3	41.2	51.0	54.9	60.8	60.8	78.5	98.1	98.1
80°	92.2	53.0	27.5	31.4	37.3	37.3	37.3	33.4	35.3	39.2	43.2
82.5°	58.9	35.3	21.6	25.5	23.5	19.6	15.7	15.7	13.7	15.7	19.6
85°	33.4	19.6	19.6	15.7	9.8	7.8	9.8	7.8	2.0	0.0	2.0
87.5°	19.6	11.8	5.9	0.0	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)