

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: P651064

Luminaire Tested: **GALN-SA8C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27868.2 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

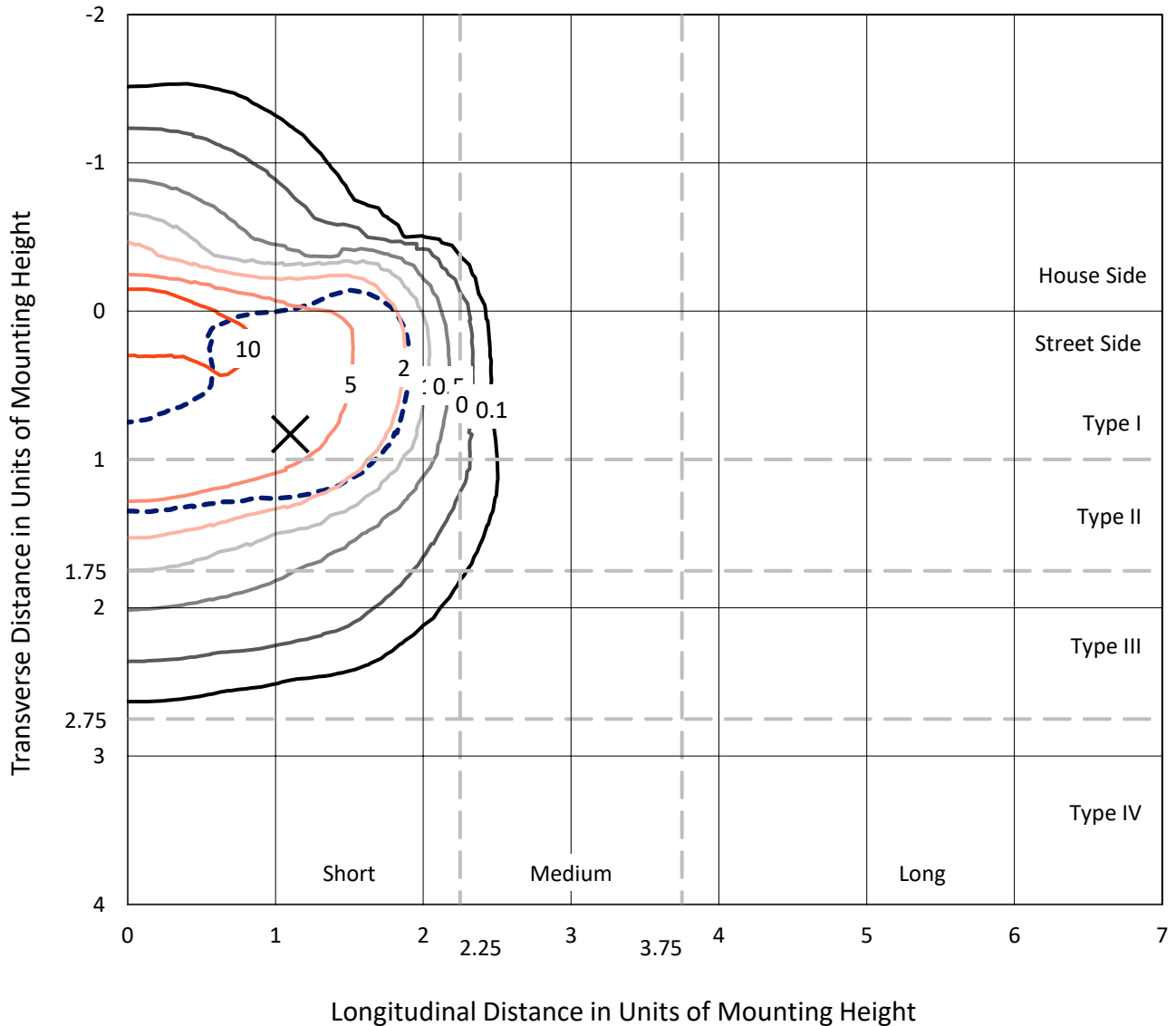
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

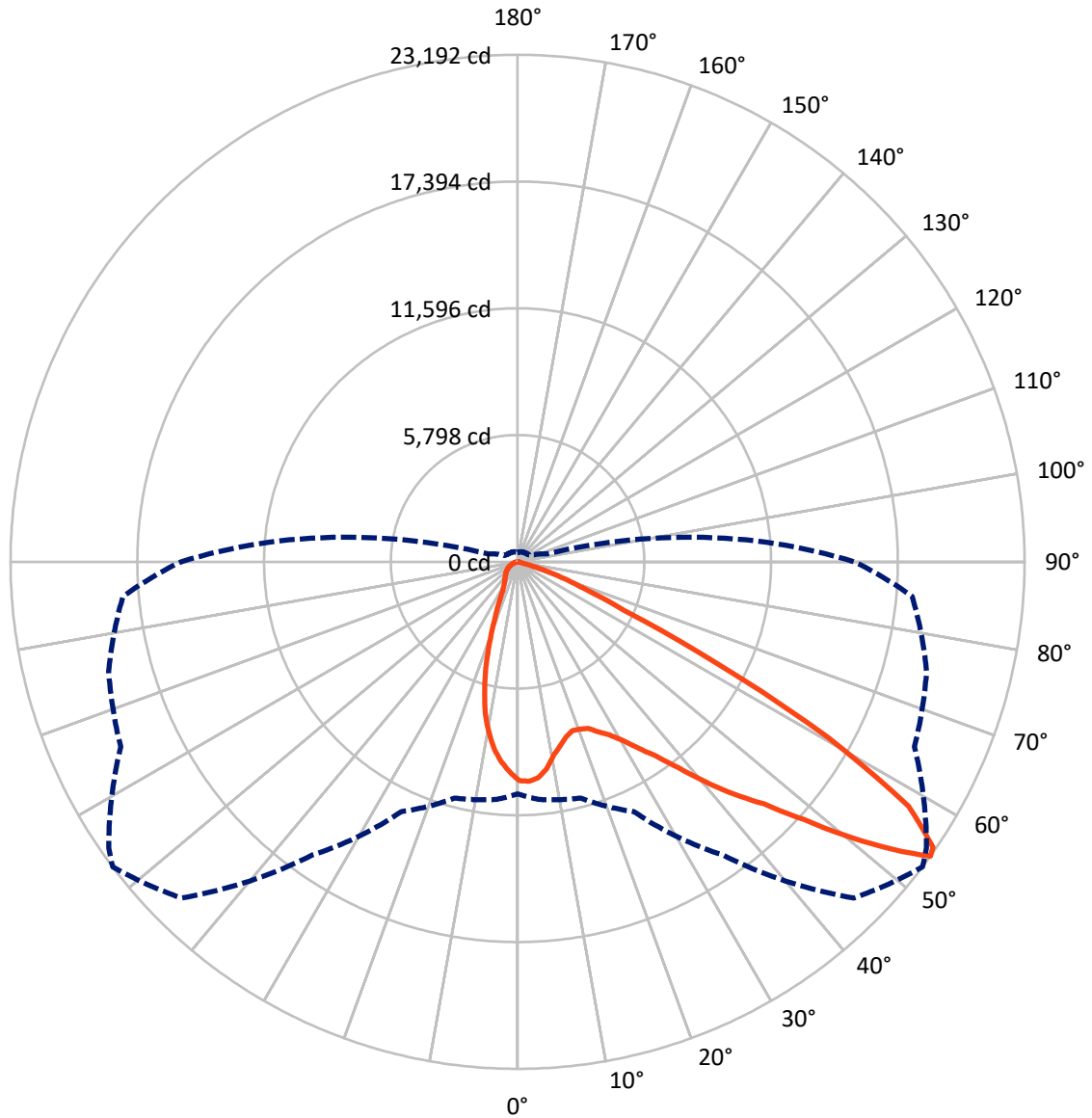
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4610.9	0.0	4610.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	23257.3	0.0	23257.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	27868.2	0.0	27868.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.8	3.1
10°-20°	1969.0	7.1
20°-30°	2798.4	10.0
30°-40°	4318.6	15.5
40°-50°	6771.2	24.3
50°-60°	7865.7	28.2
60°-70°	2972.1	10.7
70°-80°	282.6	1.0
80°-90°	31.8	0.1
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°	27868.2	100.0
0°-180°	27868.2	100.0

**Coefficient of Utilization**



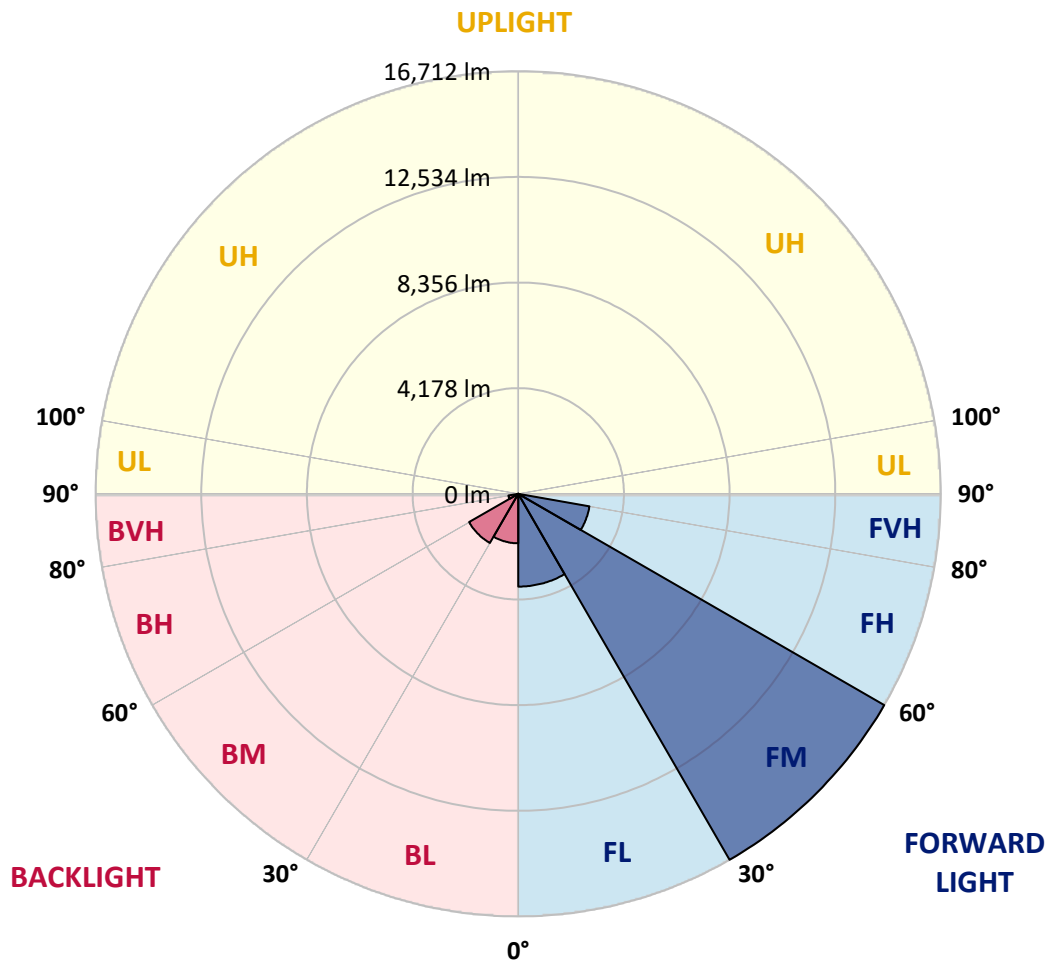
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3669.5	13.2			
FM (30°-60°)	16711.7	60.0			
FH (60°-80°)	2859.7	10.3			G2/5000
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	1956.7	7.0	B3/2500		
BM (30°-60°)	2243.8	8.1	B2/2500		
BH (60°-80°)	395.0	1.4	B1/500		G1/500
BVH (80°-90°)	15.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8
2.5°	9957.9	9869.6	9957.9	9968.3	10030.5	10087.7	10051.3	10134.4	10087.7	10035.7	10020.2
5°	9153.1	9272.5	9277.7	9464.6	9423.2	9765.8	9916.3	9874.8	10129.2	10113.6	10077.3
7.5°	8431.4	8384.8	8447.1	8665.1	8940.3	9334.8	9552.9	9547.7	9911.2	10170.7	10144.8
10°	7761.8	7756.5	7886.3	8057.7	8291.3	8706.6	9007.8	9158.3	9724.2	10118.8	10175.9
12.5°	7310.1	7289.3	7429.5	7569.7	7938.3	8260.1	8644.4	8717.0	9366.0	9937.1	10030.5
15°	7014.1	7060.9	7071.2	7341.2	7574.8	8000.6	8301.7	8452.2	9199.9	9791.8	10149.9
17.5°	6962.2	7024.5	7029.7	7253.0	7502.1	7860.4	8125.2	8327.7	9059.7	9864.4	10155.2
20°	7066.1	7029.7	7060.9	7201.1	7445.0	7787.7	8171.9	8239.4	9013.0	9900.8	10212.3
22.5°	7361.9	7351.6	7273.7	7387.9	7559.2	7917.5	8280.9	8384.8	9148.0	10087.7	10259.0
25°	7689.1	7746.2	7673.5	7657.9	7777.3	8130.4	8613.2	8748.2	9599.7	10425.1	10404.3
27.5°	8301.7	8244.6	8244.6	8171.9	8140.7	8312.1	8971.5	9194.7	10103.3	10861.3	10570.5
30°	8888.4	8950.7	8903.9	8929.9	8722.3	8706.6	9480.3	9755.4	10996.2	11525.8	10923.6
32.5°	9817.7	9734.7	9812.5	9745.0	9469.8	9189.5	10170.7	10456.3	12076.2	12289.0	11453.1
35°	10591.3	10555.0	10887.2	10876.8	10430.3	10155.2	10902.8	11328.5	12829.0	13202.8	12076.2
37.5°	11691.9	11624.5	12003.4	12185.2	11785.4	11375.2	11951.5	12444.8	13529.8	13934.8	12714.7
40°	12823.7	12995.0	13503.9	13805.0	13379.3	12834.2	13233.9	13384.4	13997.1	14412.5	13150.8
42.5°	14256.7	14505.9	15025.1	15284.7	15248.3	14656.4	14537.0	14531.9	14334.6	14277.5	13472.7
45°	15632.5	15539.1	16338.6	16904.5	17361.4	17190.0	15793.5	15637.7	14869.3	14479.9	13555.8
47.5°	16234.7	16203.6	16748.8	17755.9	19313.5	19526.3	17621.0	17018.7	15772.7	15331.4	14007.4
50°	15456.0	15616.9	16156.9	17273.1	19661.3	21286.4	19863.8	19053.9	16826.6	16369.7	15077.0
52.5°	12912.0	13021.0	13535.1	14952.4	18477.6	22324.8	22013.3	21546.0	18763.1	18005.1	16940.9
54°	10617.2	10907.9	11188.3	12610.9	16369.7	21748.4	23191.8	22833.6	20024.8	19365.5	18114.2
55°	9246.6	9417.9	9620.4	11037.8	14910.8	20772.4	23056.8	23088.0	20871.0	19791.2	18903.3
57.5°	6754.6	6873.9	6666.3	7294.5	10238.2	16868.2	21089.1	21930.2	22013.3	20429.7	19386.2
60°	5160.6	5212.6	4979.0	5077.6	6365.1	11577.7	16312.6	17325.0	19858.6	17854.6	16421.7
62.5°	4002.9	4013.3	4008.0	4179.4	4387.1	6811.7	10201.9	11100.1	13690.8	12678.4	11152.0
65°	2949.0	2902.2	2985.3	3504.4	3743.3	4283.2	5373.5	6027.7	7439.8	6282.1	4490.9
67.5°	1910.6	1926.1	2009.2	2606.3	3208.5	3286.4	3307.1	3255.3	3260.5	1796.4	1126.6
70°	1147.4	1173.4	1147.4	1474.4	2294.8	2357.1	2154.6	2102.7	1640.6	425.7	420.5
72.5°	680.1	643.8	576.3	633.4	955.3	1142.2	1028.0	1022.8	643.8	249.2	249.2
75°	285.5	259.6	212.9	192.1	254.4	244.0	244.0	218.1	171.3	166.1	155.8
77.5°	57.1	57.1	41.5	46.8	62.3	72.7	88.2	88.2	103.9	103.9	98.6
80°	0.0	5.2	15.6	31.1	46.8	67.5	77.9	77.9	88.2	88.2	72.7
82.5°	0.0	5.2	15.6	31.1	41.5	62.3	77.9	77.9	88.2	93.4	77.9
85°	0.0	5.2	15.6	26.0	41.5	51.9	51.9	46.8	36.3	31.1	20.8
87.5°	0.0	0.0	5.2	10.3	5.2	10.3	10.3	10.3	10.3	10.3	10.3
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°	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8	10009.8
2.5°	10056.5	10051.3	9926.7	9724.2	9677.6	9506.2	9485.4	9381.6	9438.7	9246.6	9225.9
5°	9973.4	9911.2	9760.6	9630.8	9251.8	8981.8	8768.9	8509.3	8358.8	8384.8	8286.1
7.5°	10092.8	9932.0	9667.1	9215.4	8753.4	8280.9	8026.5	7496.9	7304.8	7019.3	6977.8
10°	9968.3	9848.9	9438.7	8691.1	8052.5	7372.4	6775.3	6188.7	5742.1	5550.0	5508.5
12.5°	9957.9	9750.2	9064.9	8234.2	7310.1	6334.0	5467.0	4734.9	4293.6	4044.5	3987.3
15°	9796.9	9547.7	8644.4	7528.1	6250.9	5036.1	4091.1	3385.0	3047.6	2902.2	2943.8
17.5°	9812.5	9438.7	8223.8	6780.5	5207.4	3696.5	2793.2	2429.7	2341.5	2377.8	2377.8
20°	9796.9	9194.7	7715.0	5918.6	3987.3	2564.7	2050.8	1920.9	1978.1	2092.3	2066.3
22.5°	9713.9	9080.4	7247.7	5010.1	2933.4	1900.2	1645.8	1651.0	1739.3	1879.5	1910.6
25°	9776.2	8826.0	6655.9	4091.1	2139.0	1516.0	1427.8	1464.1	1557.5	1661.4	1682.2
27.5°	9729.4	8644.4	6038.0	3177.4	1562.7	1303.1	1297.9	1339.5	1381.0	1458.9	1458.9
30°	9781.3	8478.2	5430.6	2362.3	1287.6	1194.1	1173.4	1204.5	1246.0	1261.6	1256.5
32.5°	9973.4	8353.6	4729.7	1765.2	1137.0	1090.3	1090.3	1090.3	1085.1	1105.8	1111.0
35°	10394.0	8374.3	4111.9	1365.4	1038.4	1002.1	986.4	965.6	955.3	965.6	970.9
37.5°	10850.8	8364.0	3473.3	1162.9	965.6	934.5	898.2	867.1	861.9	872.2	856.6
40°	11053.3	8462.6	2881.4	1043.5	898.2	861.9	804.8	778.8	784.0	794.3	784.0
42.5°	11328.5	8493.8	2497.3	950.1	835.9	778.8	742.4	711.3	706.1	721.7	716.4
45°	11323.3	8317.2	2092.3	898.2	778.8	716.4	669.8	643.8	643.8	654.1	659.3
47.5°	11655.6	8291.3	1796.4	851.4	737.2	674.9	617.8	597.0	591.9	591.9	581.5
50°	12429.1	8654.7	1568.0	799.5	685.3	628.2	581.5	555.6	534.8	524.4	519.1
52.5°	13940.0	9786.5	1391.4	737.2	628.2	581.5	539.9	519.1	493.2	467.3	462.0
54°	15404.1	10954.7	1381.0	685.3	581.5	550.4	514.0	503.6	472.5	436.1	425.7
55°	16063.4	11634.8	1417.3	643.8	550.4	529.6	498.4	488.0	456.9	415.4	410.2
57.5°	16608.6	11899.6	1396.6	534.8	498.4	493.2	467.3	451.7	415.4	358.3	347.8
60°	13368.9	8997.4	1002.1	472.5	456.9	446.5	425.7	415.4	368.6	306.3	301.2
62.5°	8447.1	5176.2	638.6	415.4	399.7	384.2	358.3	347.8	306.3	244.0	228.4
65°	3597.9	2144.2	430.9	368.6	342.6	316.7	295.9	280.4	244.0	181.7	176.5
67.5°	934.5	763.2	358.3	321.9	285.5	249.2	233.6	207.6	166.1	124.6	119.4
70°	420.5	384.2	301.2	270.0	228.4	192.1	171.3	145.4	109.0	83.1	77.9
72.5°	249.2	244.0	228.4	202.5	171.3	145.4	124.6	98.6	72.7	46.8	46.8
75°	155.8	150.5	155.8	140.2	119.4	109.0	93.4	67.5	41.5	20.8	20.8
77.5°	93.4	93.4	93.4	88.2	83.1	83.1	67.5	41.5	20.8	5.2	5.2
80°	72.7	72.7	77.9	72.7	72.7	72.7	57.1	31.1	10.3	0.0	0.0
82.5°	72.7	77.9	88.2	83.1	72.7	62.3	51.9	31.1	10.3	0.0	0.0
85°	20.8	15.6	26.0	36.3	51.9	46.8	36.3	26.0	10.3	0.0	0.0
87.5°	10.3	10.3	10.3	10.3	5.2	5.2	5.2	5.2	5.2	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)