

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: P652054

Luminaire Tested: **GALN-SA8A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652054  
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-SA8A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA 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: 18126.9 lumens  
Efficiency: N/A  
Efficacy: 74.3 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

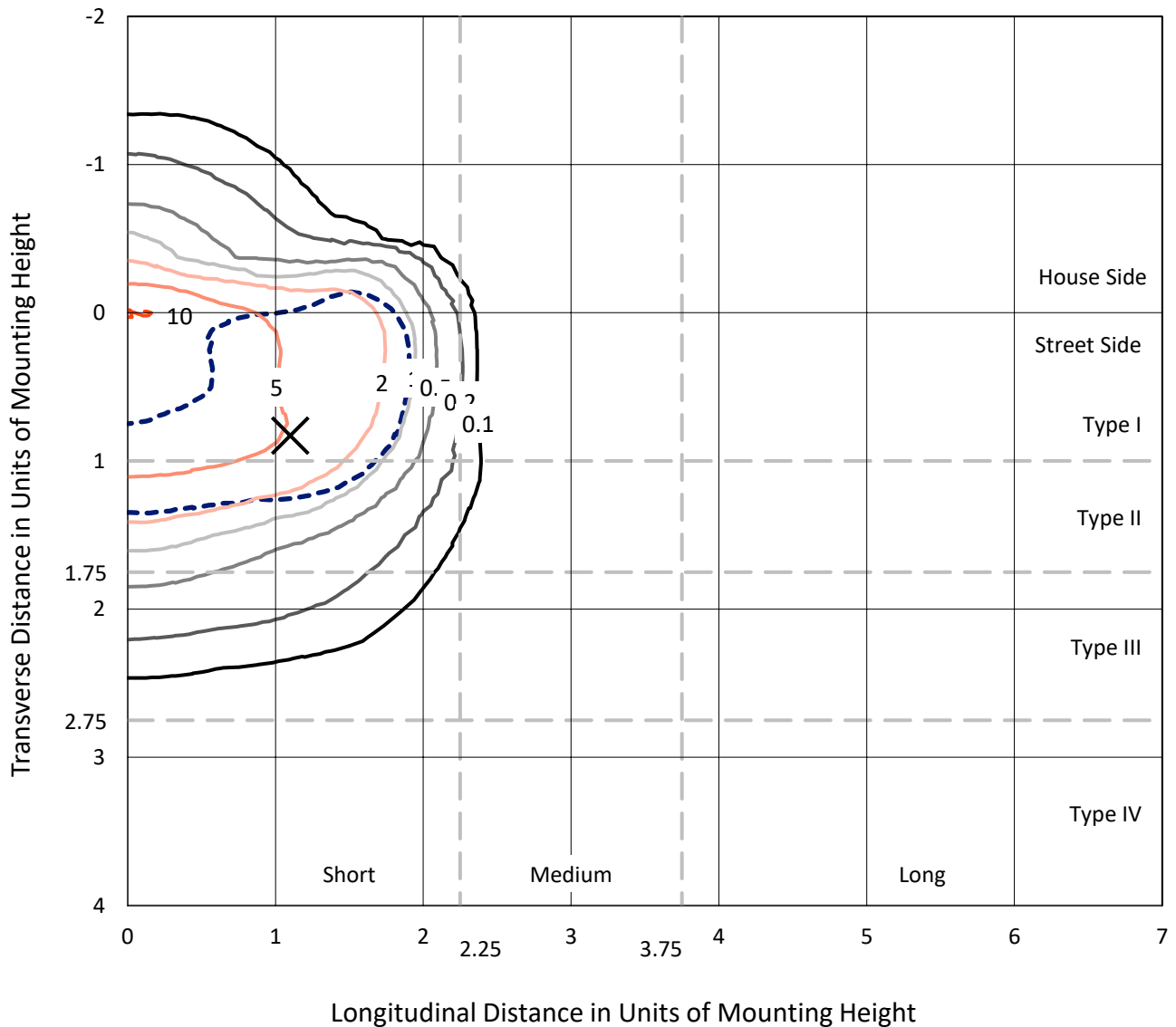
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652054  
 CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

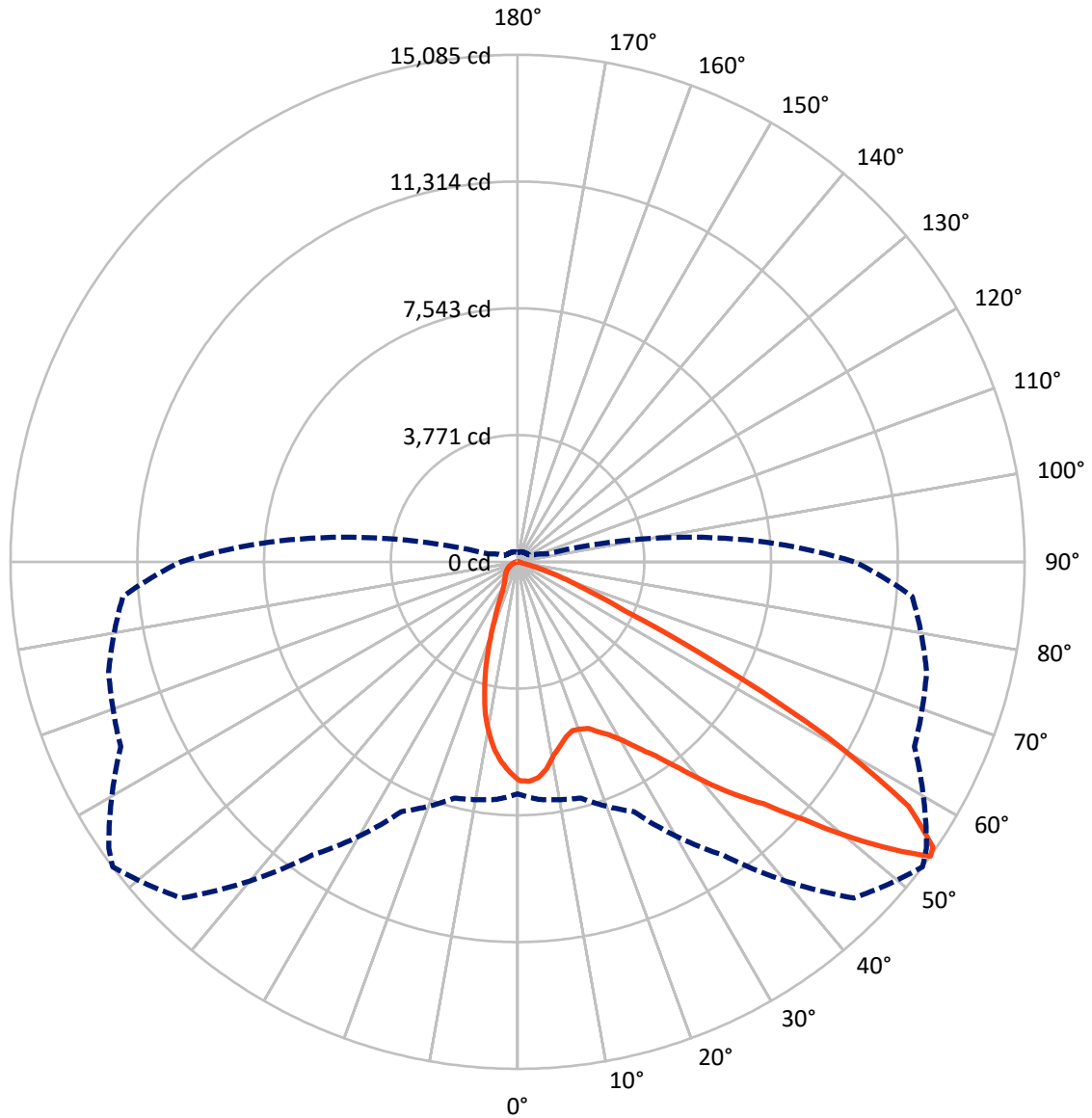
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P652054  
CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P652054  
 CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2999.1	0.0	2999.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15127.8	0.0	15127.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18126.9	0.0	18126.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.6	3.1
10°-20°	1280.7	7.1
20°-30°	1820.2	10.0
30°-40°	2809.0	15.5
40°-50°	4404.3	24.3
50°-60°	5116.2	28.2
60°-70°	1933.2	10.7
70°-80°	183.8	1.0
80°-90°	20.7	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°	18126.9	100.0
0°-180°	18126.9	100.0

**Coefficient of Utilization**



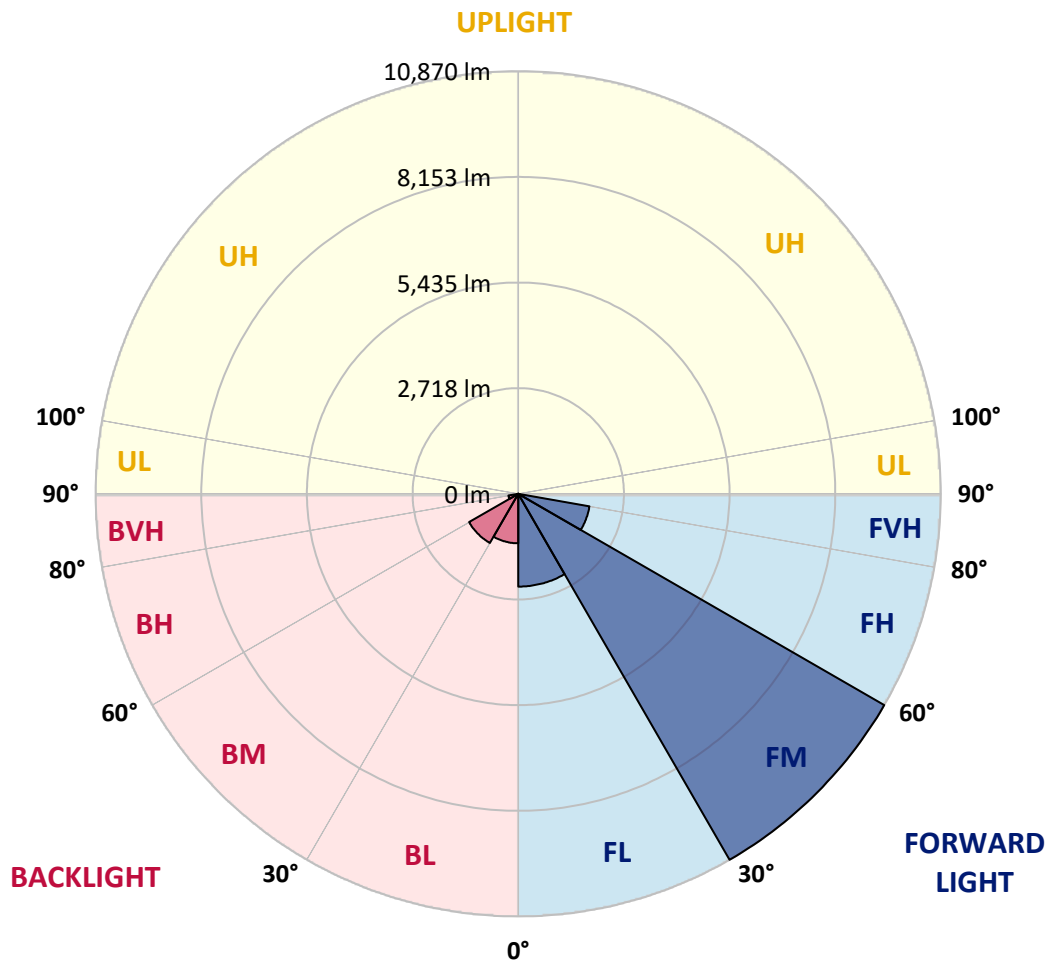
REPORT NUMBER: P652054  
 CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2386.8	13.2			
FM (30°-60°)	10870.1	60.0			
FH (60°-80°)	1860.1	10.3			G2/5000
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1272.7	7.0	B3/2500		
BM (30°-60°)	1459.5	8.1	B2/2500		
BH (60°-80°)	257.0	1.4	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
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





REPORT NUMBER: P652054

CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9
2.5°	6477.1	6419.7	6477.1	6483.9	6524.4	6561.6	6537.9	6591.9	6561.6	6527.8	6517.7
5°	5953.7	6031.3	6034.8	6156.3	6129.3	6352.2	6450.1	6423.1	6588.6	6578.4	6554.8
7.5°	5484.2	5453.9	5494.4	5636.2	5815.2	6071.9	6213.7	6210.4	6446.7	6615.6	6598.7
10°	5048.6	5045.2	5129.7	5241.1	5393.1	5663.2	5859.1	5957.1	6325.2	6581.8	6618.9
12.5°	4754.8	4741.3	4832.5	4923.7	5163.5	5372.8	5622.8	5670.0	6092.1	6463.6	6524.4
15°	4562.3	4592.7	4599.5	4775.1	4927.1	5203.9	5399.8	5497.8	5984.1	6369.1	6602.1
17.5°	4528.6	4569.1	4572.5	4717.7	4879.8	5112.8	5285.0	5416.7	5892.9	6416.3	6605.5
20°	4596.1	4572.5	4592.7	4683.9	4842.6	5065.5	5315.5	5359.4	5862.5	6440.0	6642.6
22.5°	4788.6	4781.8	4731.2	4805.5	4916.9	5149.9	5386.4	5453.9	5950.3	6561.6	6673.0
25°	5001.3	5038.5	4991.3	4981.1	5058.8	5288.4	5602.5	5690.3	6244.1	6781.1	6767.5
27.5°	5399.8	5362.7	5362.7	5315.5	5295.2	5406.6	5835.4	5980.7	6571.7	7064.7	6875.6
30°	5781.5	5822.0	5791.5	5808.5	5673.4	5663.2	6166.5	6345.4	7152.5	7497.0	7105.3
32.5°	6386.0	6331.9	6382.5	6338.6	6159.7	5977.3	6615.6	6801.3	7854.9	7993.4	7449.7
35°	6889.1	6865.5	7081.6	7074.8	6784.4	6605.5	7091.7	7368.7	8344.6	8587.7	7854.9
37.5°	7605.0	7561.1	7807.7	7925.8	7665.8	7399.0	7773.9	8094.7	8800.5	9063.9	8270.3
40°	8341.2	8452.6	8783.6	8979.4	8702.6	8348.0	8608.0	8705.9	9104.4	9374.6	8554.0
42.5°	9273.3	9435.3	9773.1	9942.0	9918.2	9533.3	9455.6	9452.3	9323.9	9286.8	8763.4
45°	10168.2	10107.4	10627.5	10995.6	11292.7	11181.3	10272.9	10171.6	9671.8	9418.5	8817.4
47.5°	10559.9	10539.7	10894.2	11549.4	12562.5	12701.0	11461.6	11069.8	10259.4	9972.3	9111.1
50°	10053.4	10158.0	10509.3	11235.3	12788.8	13845.7	12920.5	12393.6	10944.9	10647.7	9806.8
52.5°	8398.6	8469.5	8803.8	9725.8	12018.8	14521.1	14318.5	14014.6	12204.5	11711.5	11019.2
54°	6906.0	7095.1	7277.4	8202.8	10647.7	14146.3	15085.1	14852.1	13025.2	12596.2	11782.4
55°	6014.5	6125.9	6257.6	7179.5	9698.7	13511.4	14997.3	15017.6	13575.6	12873.2	12295.7
57.5°	4393.5	4471.2	4336.1	4744.7	6659.5	10971.9	13717.5	14264.5	14318.5	13288.6	12609.8
60°	3356.8	3390.5	3238.5	3302.7	4140.2	7530.7	10610.6	11269.1	12917.1	11613.5	10681.5
62.5°	2603.7	2610.5	2607.0	2718.5	2853.6	4430.6	6635.8	7220.1	8905.2	8246.7	7253.8
65°	1918.2	1887.7	1941.8	2279.4	2434.9	2786.1	3495.2	3920.7	4839.3	4086.2	2921.1
67.5°	1242.7	1252.8	1306.9	1695.3	2087.0	2137.7	2151.2	2117.4	2120.7	1168.5	732.8
70°	746.3	763.2	746.3	959.1	1492.6	1533.1	1401.4	1367.7	1067.1	276.9	273.6
72.5°	442.4	418.7	374.8	412.0	621.3	742.9	668.7	665.2	418.7	162.1	162.1
75°	185.8	168.9	138.4	125.0	165.5	158.7	158.7	141.8	111.4	108.1	101.3
77.5°	37.2	37.2	27.0	30.4	40.5	47.3	57.4	57.4	67.5	67.5	64.2
80°	0.0	3.4	10.1	20.3	30.4	43.9	50.6	50.6	57.4	57.4	47.3
82.5°	0.0	3.4	10.1	20.3	27.0	40.5	50.6	50.6	57.4	60.8	50.6
85°	0.0	3.4	10.1	16.9	27.0	33.8	33.8	30.4	23.6	20.3	13.5
87.5°	0.0	0.0	3.4	6.7	3.4	6.7	6.7	6.7	6.7	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652054

CATALOG NUMBER: GALN-SA8A-840-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9	6510.9
2.5°	6541.3	6537.9	6456.9	6325.2	6294.7	6183.3	6169.8	6102.3	6139.4	6014.5	6001.0
5°	6487.2	6446.7	6348.8	6264.4	6017.9	5842.3	5703.7	5535.0	5437.0	5453.9	5389.7
7.5°	6564.9	6460.2	6288.0	5994.2	5693.7	5386.4	5220.8	4876.4	4751.5	4565.7	4538.7
10°	6483.9	6406.2	6139.4	5653.1	5237.7	4795.4	4407.0	4025.4	3735.0	3610.0	3583.0
12.5°	6477.1	6342.1	5896.3	5355.9	4754.8	4120.0	3556.0	3079.8	2792.8	2630.7	2593.6
15°	6372.4	6210.4	5622.8	4896.6	4065.9	3275.7	2661.1	2201.8	1982.3	1887.7	1914.8
17.5°	6382.5	6139.4	5349.2	4410.4	3387.1	2404.4	1816.8	1580.4	1523.1	1546.7	1546.7
20°	6372.4	5980.7	5018.2	3849.8	2593.6	1668.2	1333.9	1249.5	1286.6	1360.9	1344.1
22.5°	6318.4	5906.4	4714.3	3258.8	1908.0	1236.0	1070.5	1073.9	1131.3	1222.5	1242.7
25°	6358.9	5740.9	4329.3	2661.1	1391.4	986.1	928.7	952.3	1013.1	1080.7	1094.1
27.5°	6328.5	5622.8	3927.5	2066.8	1016.5	847.6	844.3	871.3	898.3	948.9	948.9
30°	6362.3	5514.7	3532.4	1536.5	837.5	776.7	763.2	783.5	810.5	820.6	817.2
32.5°	6487.2	5433.6	3076.5	1148.2	739.6	709.1	709.1	709.1	705.8	719.3	722.7
35°	6760.8	5447.2	2674.6	888.2	675.4	651.8	641.6	628.1	621.3	628.1	631.5
37.5°	7057.9	5440.3	2259.3	756.5	628.1	607.9	584.2	564.0	560.6	567.3	557.2
40°	7189.6	5504.5	1874.3	678.8	584.2	560.6	523.4	506.5	509.9	516.7	509.9
42.5°	7368.7	5524.8	1624.3	618.0	543.7	506.5	482.9	462.6	459.3	469.4	466.0
45°	7365.2	5410.0	1360.9	584.2	506.5	466.0	435.6	418.7	418.7	425.5	428.9
47.5°	7581.4	5393.1	1168.5	553.8	479.5	439.0	401.8	388.4	385.0	385.0	378.2
50°	8084.5	5629.5	1019.9	520.1	445.7	408.6	378.2	361.4	347.8	341.1	337.7
52.5°	9067.2	6365.7	905.0	479.5	408.6	378.2	351.2	337.7	320.8	303.9	300.6
54°	10019.6	7125.5	898.3	445.7	378.2	357.9	334.3	327.6	307.3	283.7	276.9
55°	10448.5	7567.9	921.9	418.7	357.9	344.5	324.2	317.5	297.2	270.1	266.8
57.5°	10803.1	7740.1	908.4	347.8	324.2	320.8	303.9	293.8	270.1	233.0	226.2
60°	8695.8	5852.4	651.8	307.3	297.2	290.4	276.9	270.1	239.8	199.2	195.9
62.5°	5494.4	3366.9	415.4	270.1	260.0	249.9	233.0	226.2	199.2	158.7	148.6
65°	2340.3	1394.7	280.3	239.8	222.9	206.0	192.5	182.3	158.7	118.2	114.8
67.5°	607.9	496.4	233.0	209.4	185.8	162.1	152.0	135.1	108.1	81.1	77.7
70°	273.6	249.9	195.9	175.6	148.6	125.0	111.4	94.5	70.9	54.0	50.6
72.5°	162.1	158.7	148.6	131.7	111.4	94.5	81.1	64.2	47.3	30.4	30.4
75°	101.3	97.9	101.3	91.2	77.7	70.9	60.8	43.9	27.0	13.5	13.5
77.5°	60.8	60.8	60.8	57.4	54.0	54.0	43.9	27.0	13.5	3.4	3.4
80°	47.3	47.3	50.6	47.3	47.3	47.3	37.2	20.3	6.7	0.0	0.0
82.5°	47.3	50.6	57.4	54.0	47.3	40.5	33.8	20.3	6.7	0.0	0.0
85°	13.5	10.1	16.9	23.6	33.8	30.4	23.6	16.9	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	3.4	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)