

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: P651563

Luminaire Tested: **GALN-SA8D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30722.6 lumens  
Efficiency: N/A  
Efficacy: 62.3 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

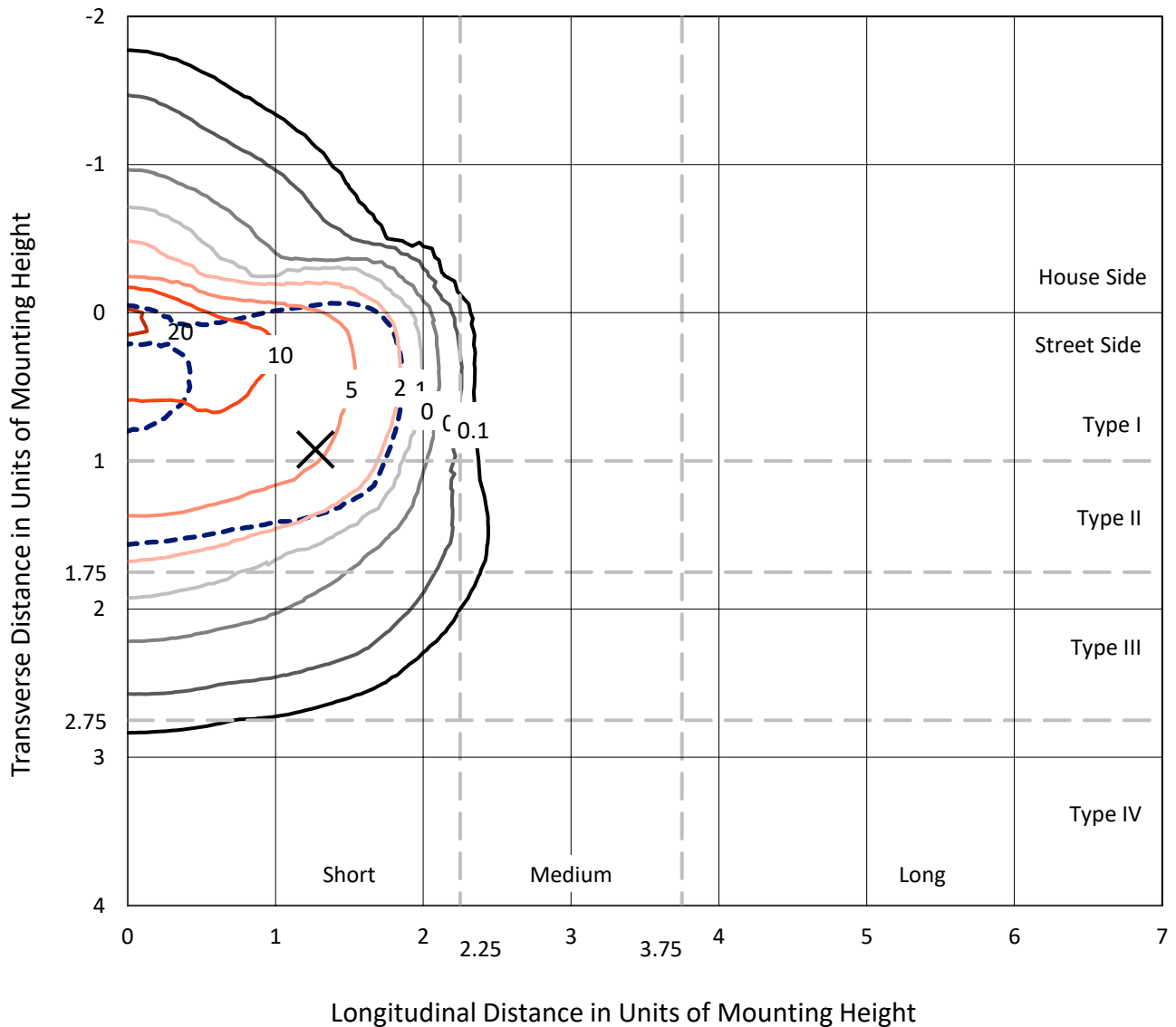
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

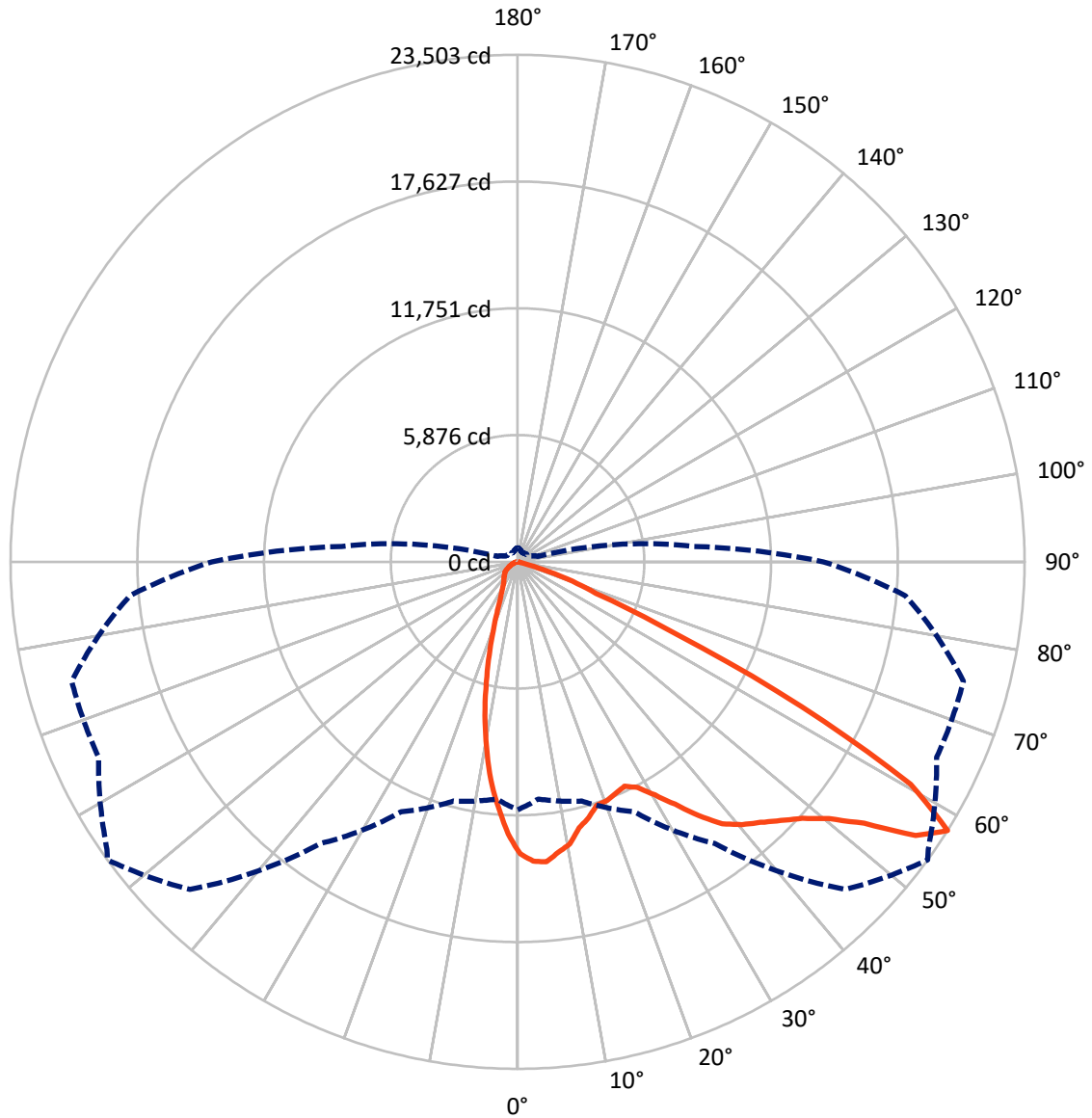
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4341.6	0.0	4341.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	26381.0	0.0	26381.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	30722.6	0.0	30722.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1132.5	3.7
10°-20°	2417.9	7.9
20°-30°	3204.2	10.4
30°-40°	4656.6	15.2
40°-50°	6905.2	22.5
50°-60°	8634.6	28.1
60°-70°	3406.0	11.1
70°-80°	339.1	1.1
80°-90°	26.4	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°	30722.6	100.0
0°-180°	30722.6	100.0

**Coefficient of Utilization**



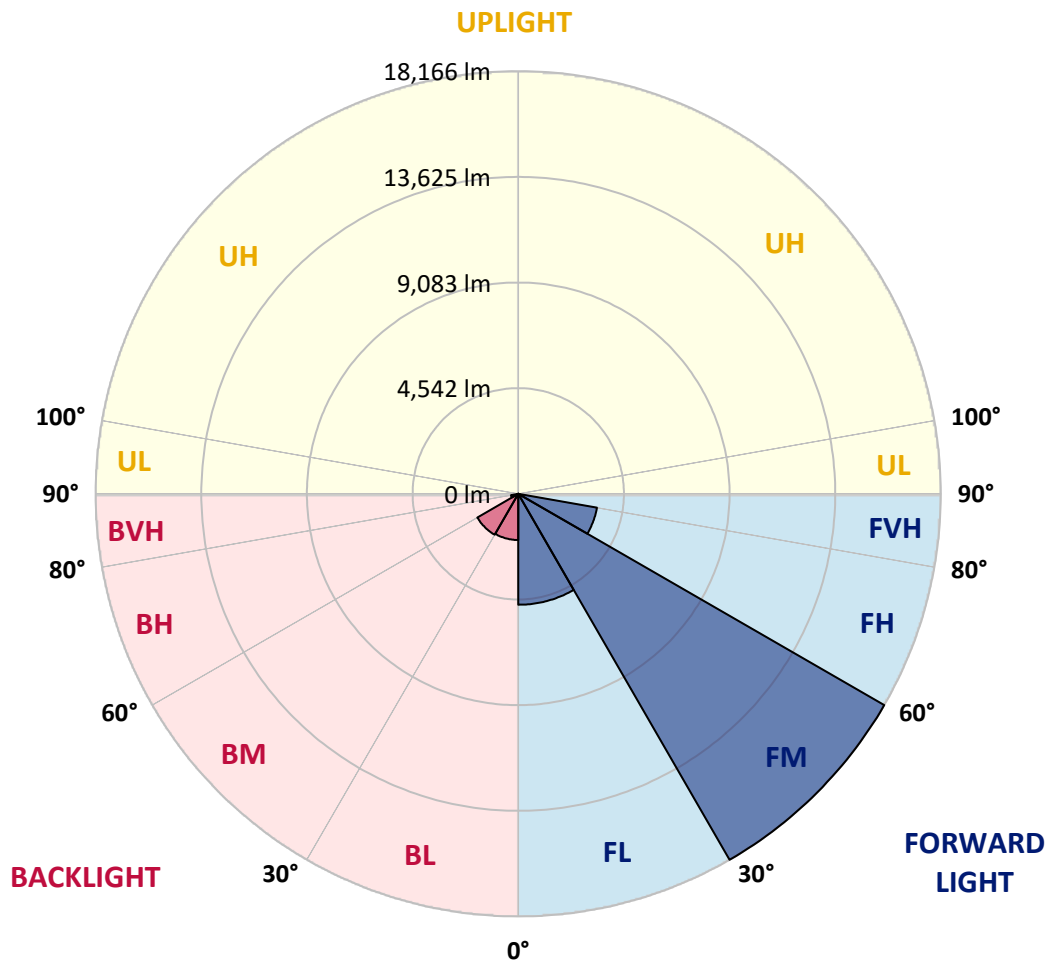
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4769.0	15.5			
FM	(30°-60°)	18166.2	59.1			
FH	(60°-80°)	3433.8	11.2			G2/5000
FVH	(80°-90°)	12.0	0.0			G1/100
BL	(0°-30°)	1985.6	6.5	B3/2500		
BM	(30°-60°)	2030.3	6.6	B2/2500		
BH	(60°-80°)	311.3	1.0	B1/500		G1/500
BVH	(80°-90°)	14.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7
2.5°	14322.1	14173.5	14185.0	14133.6	14065.0	14116.4	13893.7	13945.0	13939.3	13636.6	13436.6
5°	13962.2	14122.2	13956.5	14093.6	13962.2	14105.0	13967.9	13865.1	13699.4	13476.6	13105.2
7.5°	13350.9	13196.6	13242.4	13413.7	13442.3	13762.2	13590.8	13722.3	13653.6	13213.8	12705.3
10°	12122.6	12088.4	12316.9	12545.4	12825.3	13168.1	13299.5	13225.2	13173.8	13008.1	12328.3
12.5°	11180.0	11277.1	11271.4	11648.4	12122.6	12316.9	12659.7	12648.2	12933.8	12625.3	11974.1
15°	10283.1	10334.5	10574.5	10808.7	11334.2	11888.4	12311.1	12368.3	12711.0	12494.0	11699.9
17.5°	9734.7	9660.4	9849.0	10128.8	10665.9	11391.4	11859.9	11996.9	12465.4	12419.7	11385.7
20°	9192.0	9192.0	9346.2	9677.6	10168.9	10985.8	11819.8	11779.9	12465.4	12334.0	11048.6
22.5°	9009.1	9100.5	9140.6	9391.9	9974.6	10677.3	11648.4	11722.7	12562.5	12294.0	10900.1
25°	9260.5	9140.6	9151.9	9351.9	9900.3	10528.7	11522.8	11688.5	12739.6	12494.0	10780.1
27.5°	9300.5	9420.5	9454.8	9591.9	9957.4	10574.5	11837.0	12174.1	13179.5	12962.4	10814.4
30°	9649.0	9769.0	9763.3	9997.5	10248.8	10945.8	12539.6	12608.2	14087.8	13550.9	11025.8
32.5°	10071.7	10197.4	10237.4	10511.6	10711.6	11625.6	13396.6	13573.7	14961.9	14476.3	11579.9
35°	10597.3	10551.6	10734.4	11008.6	11437.1	12619.6	14442.1	14739.1	15904.6	15676.0	12151.2
37.5°	11254.3	11197.2	11374.3	11819.8	12402.6	13796.5	15407.5	15601.7	16590.1	16790.1	13208.1
40°	11717.1	11739.9	12276.9	12876.7	13493.7	14916.2	16018.8	16207.3	17069.9	17829.8	14007.9
42.5°	12488.3	12631.1	13276.6	14007.9	14653.4	15756.0	16515.8	16698.6	17292.7	18663.8	15087.6
45°	13608.0	13545.1	14259.2	15076.2	15790.3	16630.1	17104.3	17041.4	17424.2	19492.2	15767.4
47.5°	15047.6	15059.0	15533.2	16230.1	16972.8	17389.9	17761.2	17538.4	17698.3	20366.2	16675.8
50°	16030.2	16115.9	16498.7	17212.7	17584.1	18224.0	18698.1	18561.0	18509.6	20891.9	17247.1
52.5°	16281.6	16538.7	16744.3	17635.5	18503.9	19515.1	20120.6	20412.0	19497.9	21068.9	17972.6
55°	14384.9	14613.5	15339.0	16561.5	18852.4	21560.2	22394.3	22400.0	20789.0	21857.3	18481.1
57.5°	11499.9	11037.2	11482.8	12779.6	15938.8	21474.5	23502.6	23234.1	21434.6	21394.5	18041.1
60°	7952.2	7838.0	7866.5	8380.7	11031.5	17081.4	20943.3	21291.8	19737.8	18543.9	14282.1
62.5°	6301.3	6204.1	6078.5	6021.3	6849.7	10643.0	14773.4	15264.7	13802.2	12025.5	8466.4
65°	4935.9	4878.7	4895.9	5124.4	5118.7	6038.5	8078.0	7878.0	6307.0	4661.7	2662.2
67.5°	3330.6	3416.3	3484.9	4176.1	4530.3	4204.7	3901.9	3787.6	2050.9	862.6	588.4
70°	1873.8	1885.3	1959.5	2610.8	3439.1	3262.1	2690.8	2690.8	1022.6	314.2	337.1
72.5°	1022.6	988.3	919.8	1125.4	1531.0	1553.9	1199.7	1045.4	302.8	205.6	188.6
75°	497.0	491.3	422.8	348.5	331.4	274.3	211.3	194.3	137.1	131.4	114.3
77.5°	102.9	97.1	51.4	51.4	57.1	62.8	80.0	80.0	97.1	97.1	80.0
80°	0.0	0.0	5.7	22.9	40.0	57.1	68.5	68.5	80.0	80.0	62.8
82.5°	0.0	0.0	5.7	17.2	34.3	51.4	62.8	68.5	80.0	85.7	68.5
85°	0.0	0.0	0.0	11.4	28.6	40.0	34.3	34.3	28.6	22.9	11.4
87.5°	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7	13533.7
2.5°	13333.7	13322.4	13059.6	12911.0	12642.5	12408.3	12219.7	12082.6	12082.6	11996.9	11917.0
5°	12956.7	12859.6	12299.7	11939.8	11431.4	11054.4	10797.3	10597.3	10283.1	10368.8	10031.7
7.5°	12488.3	12242.6	11499.9	10951.5	10248.8	9711.8	9163.4	8677.8	8209.3	7998.0	8112.2
10°	11985.5	11557.1	10557.3	9689.0	8814.9	7832.3	7192.5	6415.5	5935.6	5907.1	5781.4
12.5°	11454.3	10968.7	9751.8	8552.1	7403.8	6221.3	5244.4	4518.9	4193.2	3833.3	3901.9
15°	11054.4	10334.5	8854.9	7409.5	5884.2	4690.3	3707.6	3147.8	2839.3	2753.6	2725.0
17.5°	10620.1	9849.0	7940.8	6192.7	4616.0	3376.3	2667.9	2399.4	2279.4	2279.4	2262.3
20°	10168.9	9300.5	7032.5	5061.6	3462.0	2519.4	2136.6	2050.9	2045.2	2039.5	2039.5
22.5°	9871.7	8672.1	6209.9	4021.8	2610.8	2016.6	1856.7	1822.4	1845.2	1913.8	1913.8
25°	9557.5	8066.5	5301.5	3102.0	2022.4	1731.0	1639.6	1662.4	1719.6	1782.4	1759.5
27.5°	9237.6	7672.4	4444.6	2433.7	1656.7	1513.9	1479.7	1531.0	1593.9	1651.1	1633.9
30°	9163.4	7249.6	3633.4	1845.2	1422.5	1319.7	1342.5	1388.2	1451.1	1473.9	1496.7
32.5°	9277.7	6918.2	2976.4	1513.9	1239.7	1211.1	1211.1	1234.0	1273.9	1325.4	1308.3
35°	9603.3	6729.7	2353.7	1314.0	1136.9	1108.3	1102.6	1125.4	1148.3	1165.5	1148.3
37.5°	10100.3	6581.2	1925.2	1165.5	1068.3	1022.6	1011.1	1005.5	1028.3	1034.0	1045.4
40°	10734.4	6661.1	1633.9	1074.0	999.8	948.3	914.1	914.1	914.1	931.2	936.9
42.5°	11419.9	6769.7	1411.0	1022.6	936.9	874.1	839.8	828.4	839.8	862.6	856.9
45°	12139.8	6981.1	1268.2	942.6	879.8	799.8	754.1	742.7	771.2	816.9	811.2
47.5°	12813.9	7283.9	1159.7	891.2	822.7	748.4	691.2	679.9	731.2	794.1	799.8
50°	13488.0	7809.4	1119.7	851.2	782.6	696.9	645.6	634.1	691.2	771.2	788.4
52.5°	14265.0	8375.0	1091.1	799.8	737.0	657.0	599.9	588.4	651.3	754.1	759.8
55°	14773.4	8854.9	1068.3	708.4	651.3	594.2	548.4	542.7	611.2	702.7	725.5
57.5°	14179.3	8186.5	988.3	617.0	554.1	525.5	485.6	485.6	542.7	628.4	645.6
60°	10751.6	5387.2	702.7	497.0	468.4	451.3	434.2	434.2	479.9	542.7	548.4
62.5°	6295.6	2902.1	451.3	399.9	399.9	382.7	354.2	354.2	399.9	434.2	439.9
65°	1868.1	931.2	365.6	342.8	337.1	308.5	280.0	274.3	308.5	325.6	319.9
67.5°	537.0	428.5	302.8	285.6	280.0	234.2	217.1	211.3	217.1	205.6	200.0
70°	319.9	291.3	234.2	239.9	211.3	171.4	154.2	148.5	137.1	120.0	108.6
72.5°	177.1	177.1	171.4	182.8	148.5	114.3	97.1	80.0	62.8	51.4	45.7
75°	108.6	114.3	120.0	125.6	97.1	74.3	62.8	40.0	22.9	11.4	11.4
77.5°	74.3	80.0	85.7	91.4	80.0	68.5	51.4	28.6	5.7	0.0	0.0
80°	57.1	62.8	74.3	80.0	85.7	91.4	68.5	28.6	5.7	0.0	0.0
82.5°	62.8	68.5	85.7	80.0	80.0	80.0	62.8	28.6	5.7	0.0	0.0
85°	11.4	17.2	28.6	28.6	40.0	51.4	40.0	11.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)