

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: P383601

Luminaire Tested: **GLEON-SA8D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59227.8 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

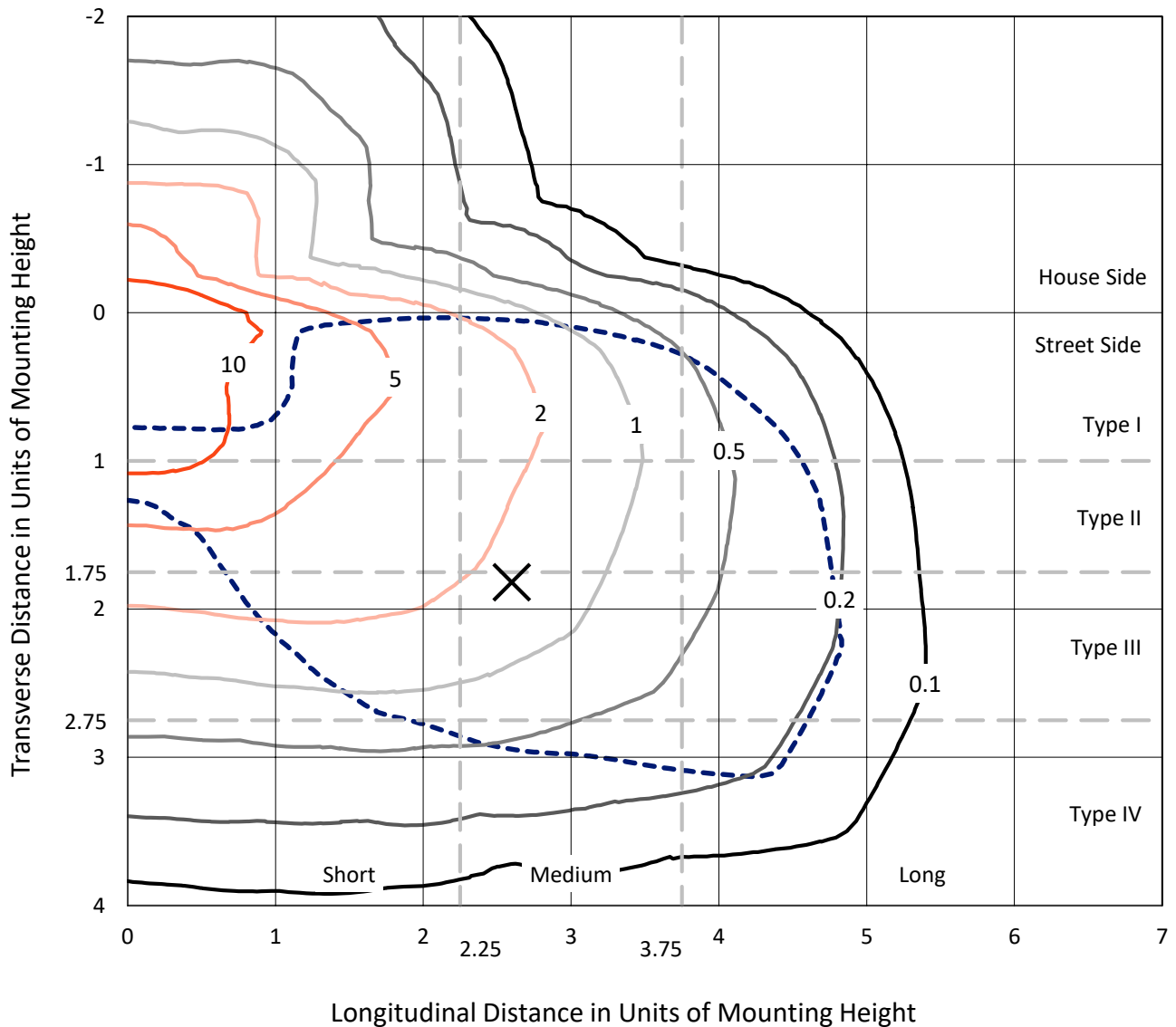
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

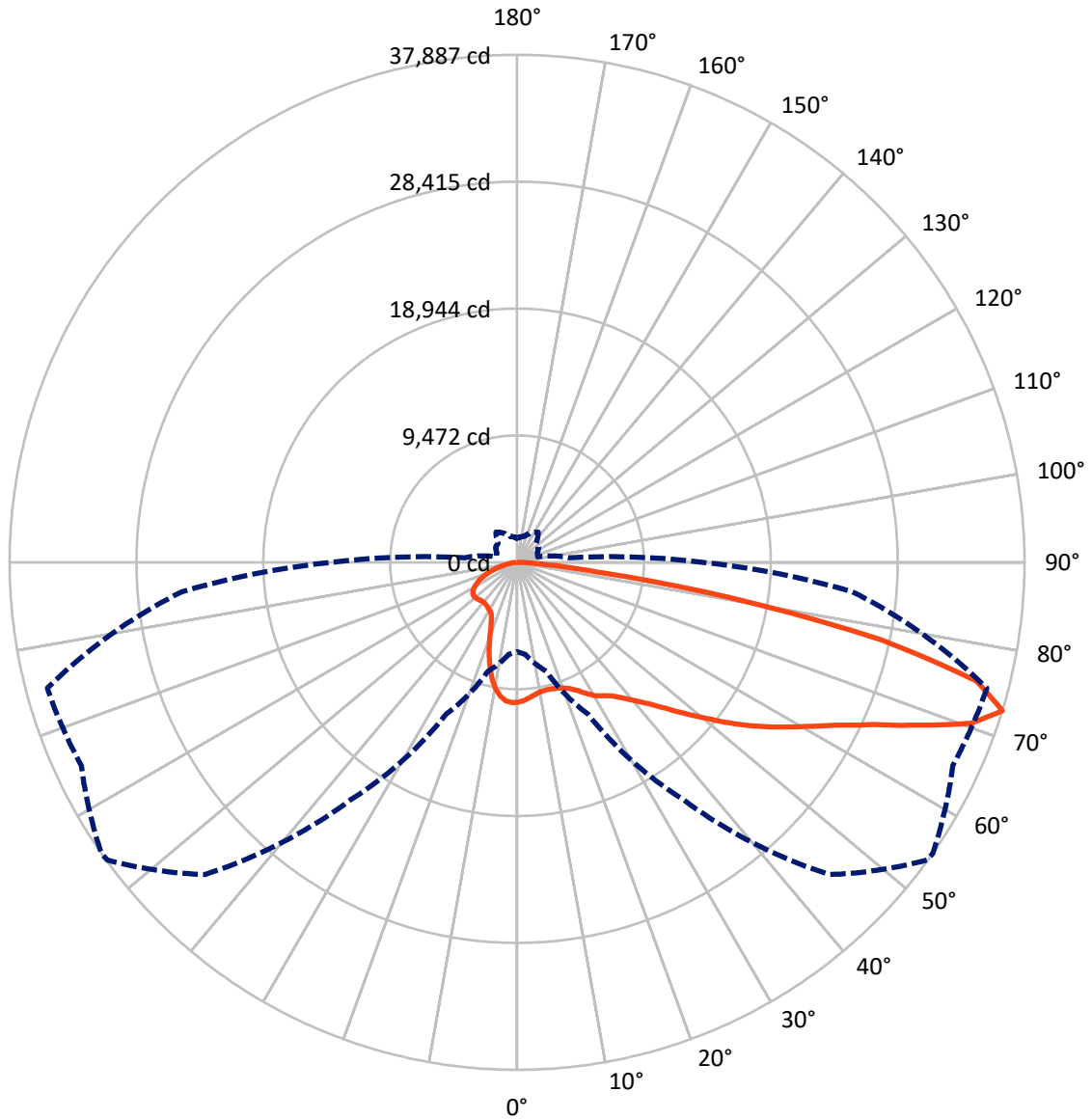
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11008.5	0.0	11008.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	48219.3	0.0	48219.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	59227.8	0.0	59227.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.3	1.6
10°-20°	2516.7	4.2
20°-30°	4149.4	7.0
30°-40°	6138.0	10.4
40°-50°	8567.4	14.5
50°-60°	11155.0	18.8
60°-70°	13709.2	23.1
70°-80°	10746.3	18.1
80°-90°	1300.5	2.2
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°	59227.8	100.0
0°-180°	59227.8	100.0

Coefficient of Utilization

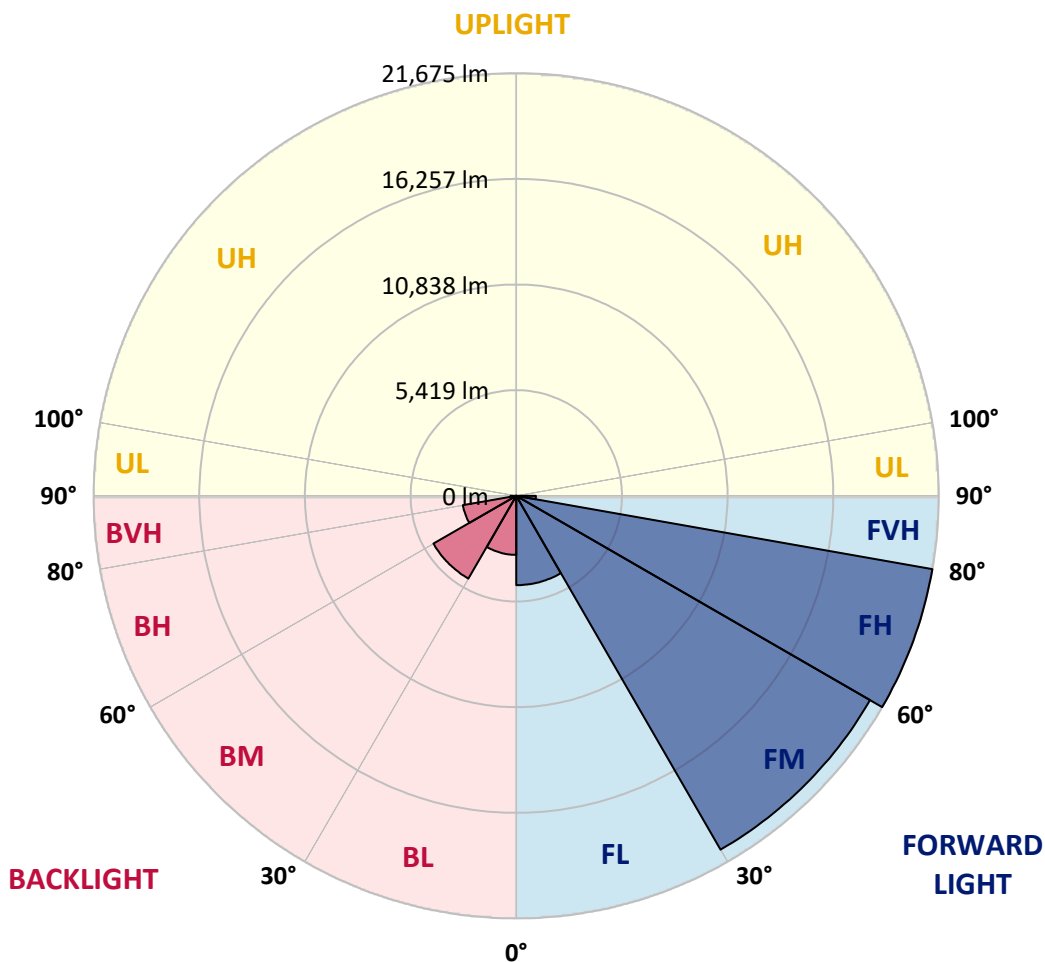


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4582.5	7.7			
FM (30°-60°)	20956.0	35.4			
FH (60°-80°)	21675.4	36.6			G5
FVH (80°-90°)	1005.5	1.7			G5
BL (0°-30°)	3028.9	5.1	B4/5000		
BM (30°-60°)	4904.4	8.3	B3/5000		
BH (60°-80°)	2780.2	4.7	B4/5000		G4/5000
BVH (80°-90°)	295.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5
2.5°	10106.5	10082.4	10112.4	10154.4	10200.4	10262.5	10298.4	10314.5	10376.5	10400.5	10452.5
5°	9638.4	9626.3	9676.4	9748.4	9850.4	9994.4	10110.5	10132.4	10296.5	10412.5	10518.6
7.5°	9298.2	9298.2	9356.3	9442.3	9556.3	9750.3	9914.4	9944.4	10222.4	10472.6	10668.5
10°	9028.2	9038.2	9106.2	9208.3	9342.2	9548.3	9766.3	9800.3	10202.5	10612.6	10924.6
12.5°	8848.1	8872.2	8934.1	9026.1	9192.2	9442.3	9718.4	9764.4	10244.4	10812.6	11232.7
15°	8962.1	9002.2	9008.2	9046.2	9138.2	9410.2	9746.3	9794.4	10334.5	11016.7	11582.8
17.5°	9462.3	9476.3	9414.2	9334.2	9290.2	9464.2	9830.3	9880.4	10442.5	11218.7	11918.9
20°	10222.4	10214.4	10080.5	9864.3	9640.3	9668.3	9968.4	10020.4	10588.5	11396.7	12255.0
22.5°	11182.7	11154.7	10948.7	10550.5	10168.4	10008.4	10210.4	10254.5	10808.6	11650.8	12615.0
25°	12347.0	12285.0	12012.9	11478.7	10916.6	10504.5	10574.6	10616.6	11128.6	11934.9	12945.1
27.5°	13575.3	13513.2	13167.1	12521.0	11772.8	11130.7	11076.7	11112.7	11492.8	12145.0	13189.1
30°	14859.6	14793.5	14477.5	13753.3	12681.1	11778.9	11544.8	11558.7	11748.9	12259.0	13389.2
32.5°	16149.9	16087.8	15733.7	14893.6	13667.3	12475.0	11882.8	11864.8	11902.8	12377.0	13615.3
35°	17458.2	17482.2	17068.1	16137.9	14759.5	13249.2	12282.9	12244.9	12160.9	12619.0	13935.4
37.5°	18858.5	18842.5	18306.4	17334.1	15901.8	14089.4	12857.1	12851.1	12561.0	13077.2	14437.5
40°	19794.7	19804.8	19478.7	18558.5	17056.1	15019.6	13593.2	13579.3	13199.2	13763.3	15095.6
42.5°	20160.8	20226.9	20310.9	19726.7	18264.4	16097.9	14471.5	14451.5	14089.4	14747.5	15869.8
45°	20186.8	20318.9	20839.0	20764.9	19488.7	17332.2	15593.7	15537.7	15277.7	16055.9	16794.0
47.5°	19962.8	20098.8	20963.0	21383.1	20582.9	18634.5	16906.1	16862.0	16638.0	17692.2	17794.2
50°	19472.7	19602.7	20707.0	21685.2	21483.2	19886.8	18418.5	18302.4	18182.4	19582.7	18938.5
52.5°	18554.5	18804.5	20364.9	21757.2	22021.3	20999.0	20008.8	19932.8	19998.8	21577.2	20084.8
55°	16380.0	16660.0	19482.7	21697.2	22419.4	21933.3	21599.1	21595.2	21937.3	23669.7	21315.1
57.5°	15161.7	15359.7	17686.3	21595.2	22891.5	22861.5	23173.6	23211.6	23877.7	25948.3	22603.4
60°	14473.5	14681.6	16776.1	21217.1	23623.7	24061.8	24779.9	24855.9	25850.2	28470.8	24153.8
62.5°	13847.4	14075.4	16211.9	20446.9	24485.9	25778.2	26704.4	26772.4	27938.7	31063.5	25652.1
65°	12777.1	13035.1	15385.7	19940.8	25270.1	28016.8	29151.0	29197.0	30337.2	33780.2	26798.5
67.5°	11264.7	11500.8	13827.3	18822.5	25850.2	30735.4	32403.8	32429.8	32715.9	35698.6	27384.6
70°	9498.2	9588.3	11606.8	16514.0	25164.1	33278.0	35968.6	35974.6	34884.4	36926.8	27288.6
72.5°	6673.6	6885.6	8426.0	12501.0	21625.2	32967.9	37819.1	37887.1	35892.6	36306.7	25108.0
75°	4092.9	4317.1	5285.2	7575.8	13719.3	25928.2	34942.4	35414.6	34002.1	32371.7	20510.9
77.5°	2736.7	2820.6	3448.9	4417.0	6215.5	14917.6	26864.4	27752.7	28246.8	23607.7	13117.1
80°	1526.3	1686.4	2286.6	2744.6	2764.6	5927.4	16107.9	16316.0	15715.8	9400.2	4047.0
82.5°	808.2	896.2	1526.3	1612.4	1508.4	1984.5	6003.5	6009.4	5021.2	2520.6	1202.3
85°	626.2	700.2	1046.2	984.3	770.2	880.2	1980.5	2088.5	1708.4	1032.2	392.1
87.5°	312.1	388.1	710.2	624.1	302.1	252.1	708.2	756.1	674.2	404.1	142.1
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°	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5	10446.5
2.5°	10472.6	10490.5	10512.5	10488.5	10480.6	10448.5	10394.5	10382.5	10354.5	10356.5	10372.5
5°	10564.5	10594.6	10582.6	10490.5	10380.5	10226.4	10066.4	9930.4	9840.4	9834.3	9828.4
7.5°	10740.6	10760.6	10666.6	10404.5	10096.4	9740.4	9404.3	9110.2	8932.1	8888.2	8878.1
10°	11016.7	11012.7	10754.6	10226.4	9612.3	8976.1	8436.0	8027.9	7789.9	7719.8	7701.8
12.5°	11324.7	11278.7	10784.6	9902.4	8928.1	8046.0	7361.7	6907.7	6659.6	6579.6	6559.6
15°	11642.8	11528.7	10710.6	9418.2	8088.0	7043.7	6325.5	5905.5	5771.4	5727.3	5719.3
17.5°	11938.9	11718.8	10498.5	8762.1	7129.7	6045.5	5485.3	5317.3	5349.3	5407.3	5409.3
20°	12228.9	11846.9	10158.4	7933.9	6119.4	5223.3	5033.2	5157.2	5309.3	5427.3	5443.3
22.5°	12515.0	11936.9	9720.3	6977.7	5215.3	4761.1	4895.2	5121.3	5295.3	5423.3	5445.3
25°	12755.0	11958.8	9116.2	5957.4	4587.1	4587.1	4829.1	5043.2	5215.3	5341.3	5363.3
27.5°	12843.1	11810.8	8263.9	5013.2	4271.1	4507.1	4737.1	4915.2	5061.2	5195.2	5219.3
30°	12877.1	11536.8	7279.8	4255.0	4141.0	4421.0	4613.1	4765.1	4903.2	5029.2	5051.2
32.5°	12883.1	11206.7	6235.5	3824.9	4050.9	4331.0	4459.0	4593.1	4741.1	4791.1	4799.1
35°	12921.1	10816.6	5135.2	3604.9	3967.0	4247.0	4349.0	4445.1	4205.0	4223.0	4239.0
37.5°	13031.1	10430.5	4215.0	3480.8	3913.0	4203.0	4325.1	3977.0	3788.9	3744.9	3738.9
40°	13237.2	10018.4	3532.9	3380.8	3892.9	4225.0	4171.0	3712.9	3388.8	3146.8	3110.7
42.5°	13523.3	9574.3	3096.7	3314.8	3906.9	4331.0	3956.9	3458.8	2920.7	2764.6	2744.6
45°	13845.3	9108.2	2860.7	3268.8	3955.0	4413.0	3913.0	3120.8	2702.6	2584.6	2574.6
47.5°	14157.4	8538.0	2738.7	3248.8	4020.9	4347.1	3726.9	3016.7	2598.6	2536.6	2542.6
50°	14515.5	8023.9	2664.6	3226.8	4079.0	4305.1	3516.9	2962.7	2558.6	2634.6	2714.6
52.5°	14817.6	7491.8	2598.6	3182.7	4101.0	4231.0	3462.8	2972.8	2558.6	2704.7	2780.7
55°	15175.7	7089.7	2522.6	3090.8	4058.9	4020.9	3424.8	3032.7	2588.6	2496.6	2504.6
57.5°	15637.8	6957.6	2438.6	2946.7	3918.9	3714.9	3406.9	3090.8	2570.6	2512.6	2532.6
60°	16278.0	7097.7	2404.6	2758.7	3700.9	3474.9	3408.8	3060.7	2444.6	2344.5	2346.6
62.5°	16888.0	7253.8	2402.6	2640.7	3432.8	3260.8	3362.8	2962.7	2380.6	2322.5	2344.5
65°	17088.1	7095.7	2306.5	2508.6	3130.7	3004.7	3278.8	2858.6	2332.6	2244.6	2240.6
67.5°	16820.0	6605.6	2112.5	2294.6	2784.7	2706.6	3168.8	2734.7	2256.6	2184.5	2172.6
70°	16023.8	5511.3	1872.4	2012.5	2390.5	2370.6	2994.7	2590.6	2154.5	2092.5	2040.5
72.5°	13881.4	3926.9	1578.4	1674.4	1946.5	2010.5	2754.7	2402.6	2010.5	1876.4	1796.4
75°	11400.7	2906.7	1296.3	1316.3	1478.4	1652.4	2424.5	2182.5	1840.5	1612.4	1550.4
77.5°	6981.7	1778.4	1032.2	1040.3	1060.3	1318.3	1996.5	1936.5	1624.4	1344.3	1300.3
80°	2260.6	970.2	746.2	784.2	724.2	966.2	1544.4	1648.4	1394.3	1124.3	1076.2
82.5°	860.2	566.1	504.2	530.1	502.1	648.2	1126.2	1320.3	1142.3	924.2	752.2
85°	416.1	320.1	298.1	334.1	310.1	332.1	720.2	972.3	866.2	602.2	560.1
87.5°	148.0	142.1	114.0	154.1	132.0	118.0	220.0	490.1	572.2	414.1	370.1
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)