

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: P532184

Luminaire Tested: **GALN-SA7C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38663 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

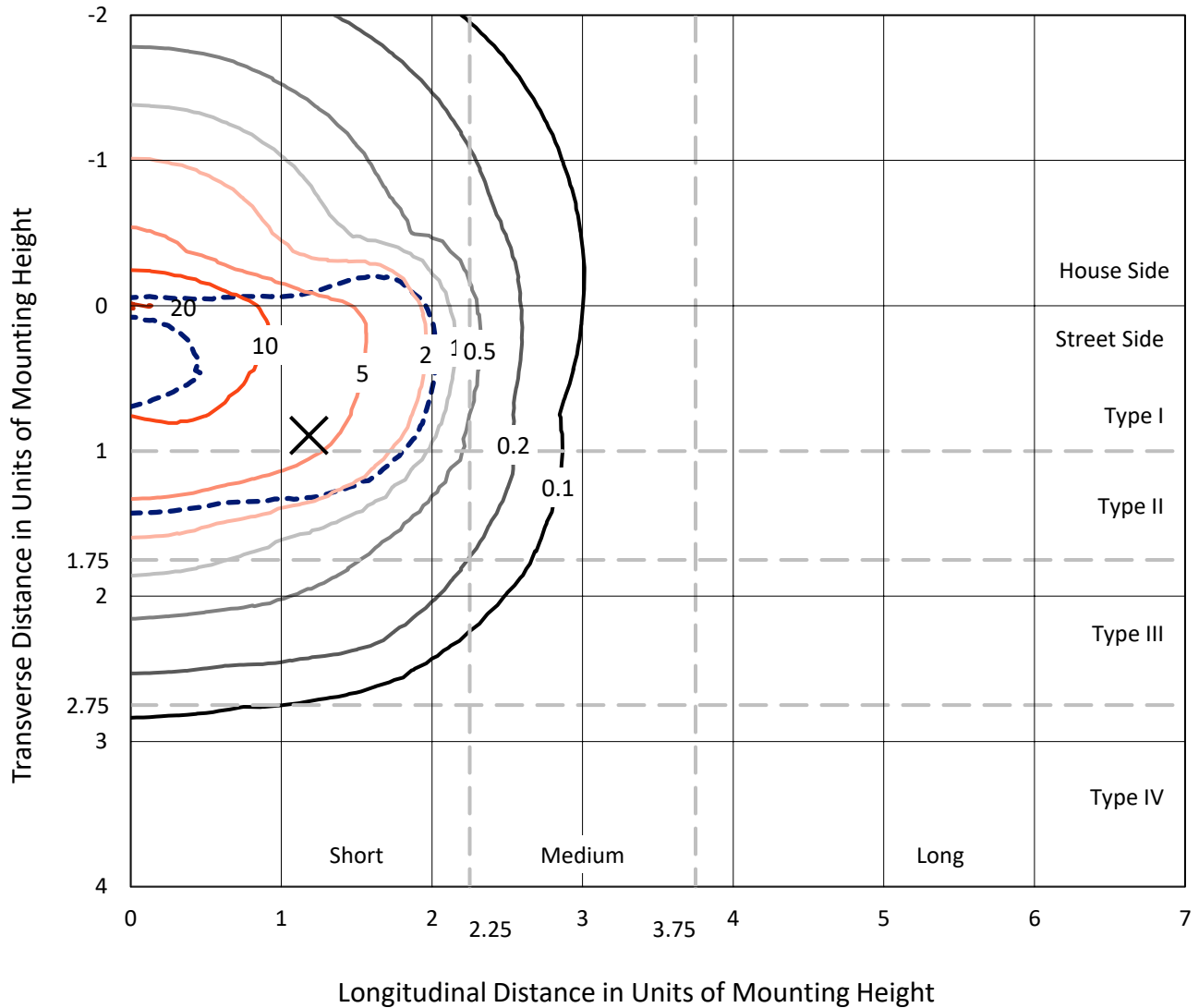
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

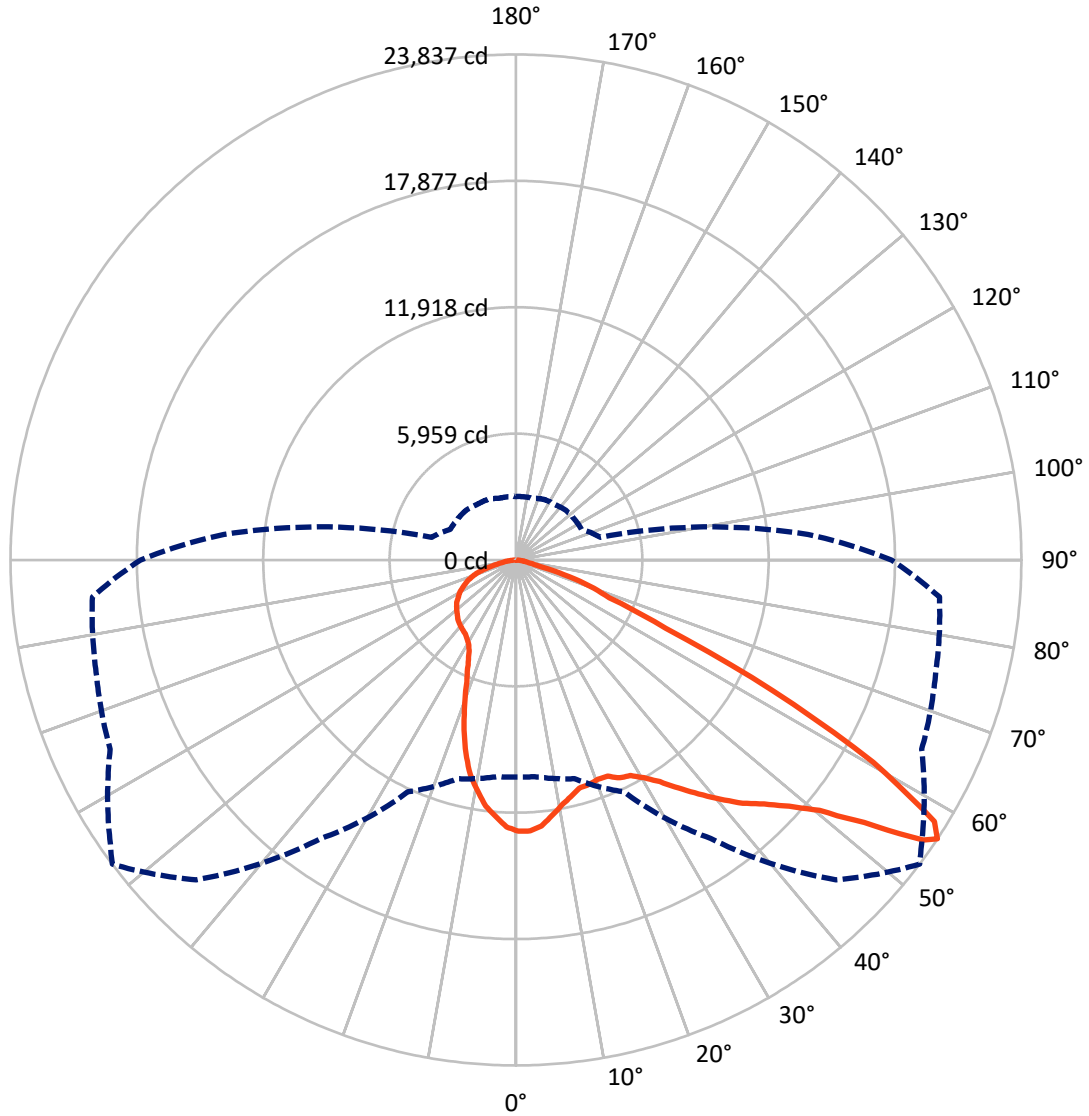
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11282.7	0.0	11282.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27380.3	0.0	27380.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	38663.0	0.0	38663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.4	2.9
10°-20°	2828.2	7.3
20°-30°	4170.5	10.8
30°-40°	5958.8	15.4
40°-50°	8201.4	21.2
50°-60°	9691.9	25.1
60°-70°	5165.1	13.4
70°-80°	1310.4	3.4
80°-90°	204.3	0.5
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°	38663.0	100.0
0°-180°	38663.0	100.0

Coefficient of Utilization



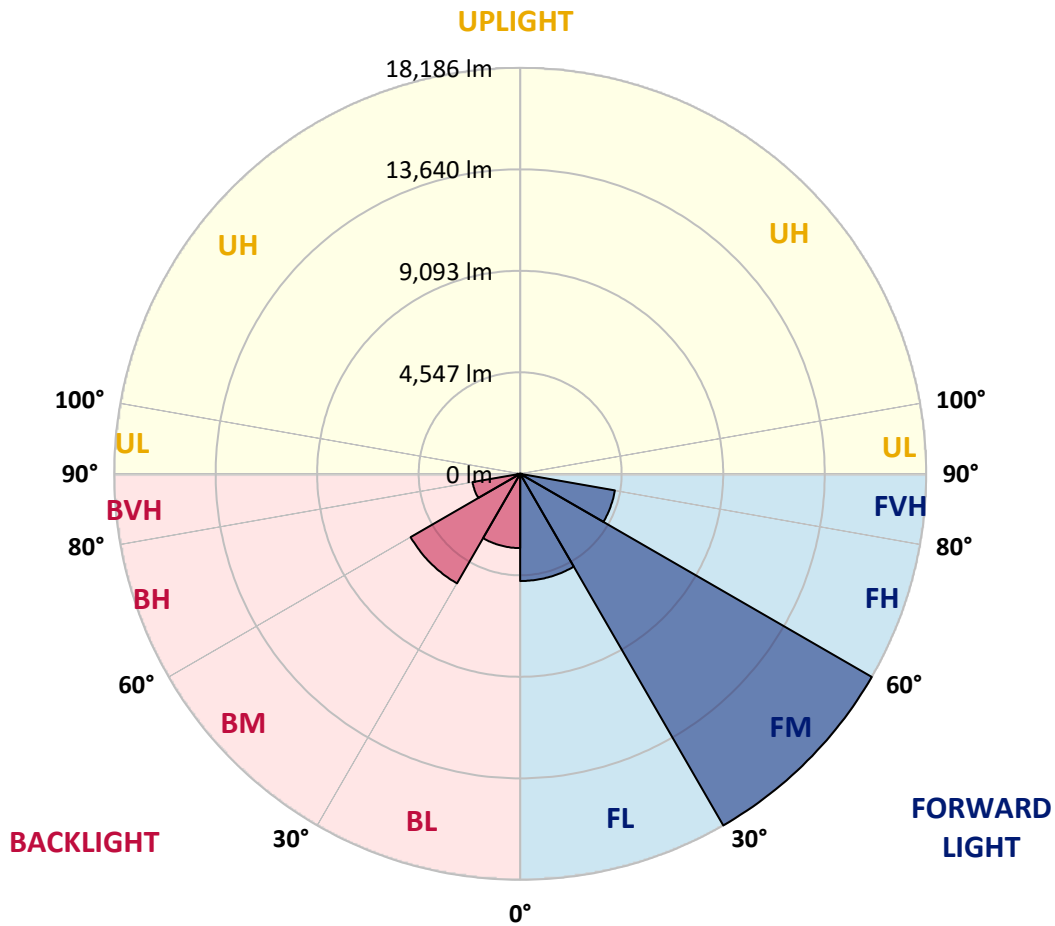
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4803.3	12.4			
FM (30°-60°)	18186.3	47.0			
FH (60°-80°)	4308.5	11.1			G2/5000
FVH (80°-90°)	82.1	0.2			G1/100
BL (0°-30°)	3327.7	8.6	B4/5000		
BM (30°-60°)	5665.8	14.7	B4/8500		
BH (60°-80°)	2167.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	122.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2
2.5°	12632.5	12523.4	12587.9	12563.1	12766.4	12826.0	12796.2	12821.0	12935.1	12880.5	12766.4
5°	11804.3	11958.0	11987.8	12062.2	12181.2	12414.3	12597.8	12647.4	12702.0	12954.9	12930.1
7.5°	11050.4	11154.5	11100.0	11318.2	11576.1	11953.0	12176.2	12215.9	12716.8	12855.7	12959.9
10°	10574.2	10470.1	10718.1	10777.6	11070.2	11501.7	11769.5	11933.2	12389.5	12940.0	13004.5
12.5°	10132.8	10098.1	10246.9	10415.5	10742.9	11189.2	11462.0	11526.5	12230.8	12811.1	13113.6
15°	9805.5	9765.8	9914.6	10038.6	10420.5	10817.3	11164.4	11348.0	12057.2	12736.7	13019.4
17.5°	9547.6	9542.6	9626.9	9850.1	10241.9	10574.2	11134.7	11144.6	11967.9	12850.8	13098.7
20°	9532.7	9527.7	9542.6	9790.6	10147.7	10554.4	11040.4	11129.7	11967.9	12771.4	13103.7
22.5°	9656.7	9577.3	9666.6	9825.3	10083.2	10589.1	11075.2	11273.6	12255.6	13163.2	13326.9
25°	9855.1	9874.9	9924.5	9979.1	10127.8	10668.5	11382.7	11546.3	12592.9	13500.5	13634.4
27.5°	10217.1	10207.2	10227.0	10256.8	10385.8	10742.9	11506.7	11928.2	13297.1	14100.6	13966.7
30°	10747.8	10713.1	10792.5	10896.6	10777.6	10980.9	11918.3	12235.8	13951.8	14705.7	14338.7
32.5°	11228.9	11357.9	11506.7	11551.3	11407.5	11447.1	12463.9	12786.3	14497.4	15449.7	14795.0
35°	11829.0	11933.2	12131.6	12270.5	12245.7	12126.6	13207.9	13634.4	15286.0	15995.3	15276.1
37.5°	12414.3	12538.3	12865.6	13277.3	13049.2	12994.6	14001.4	14353.6	15529.0	16287.9	15628.2
40°	13356.7	13351.7	13917.1	14130.4	14333.7	14239.5	14824.7	14943.8	15658.0	16223.4	15638.2
42.5°	14462.7	14393.2	14968.6	15300.9	15563.8	15573.7	15682.8	15643.1	15717.5	15896.1	15534.0
45°	15514.2	15663.0	16243.2	16838.4	17101.3	17131.0	16406.9	16332.5	15821.7	15801.8	15335.6
47.5°	16798.7	16833.5	17309.6	18093.2	18703.3	18495.0	17344.3	17180.6	16278.0	16431.7	15667.9
50°	16873.1	17131.0	17557.6	18480.1	20354.9	20300.3	18559.5	18251.9	17012.0	17324.5	16595.4
52.5°	15315.8	15256.2	15762.1	17269.9	20230.9	22095.8	20573.1	19839.1	18589.2	18351.1	18098.2
55°	11670.3	11809.2	12255.6	13778.2	17567.5	22120.6	23315.9	22715.7	20275.5	19868.8	19576.2
56°	10237.0	10256.8	10678.4	12067.1	16030.0	21332.0	23836.6	23350.6	21113.7	20493.8	20047.4
57.5°	8486.2	8372.1	8590.3	9349.2	13530.2	19665.5	23266.3	23742.4	22095.8	21168.3	20548.3
60°	6680.8	6656.0	6566.7	6705.6	8550.6	14814.8	19367.9	20439.2	21996.6	20533.4	19680.4
62.5°	5455.7	5331.8	5510.3	5708.7	5941.8	9190.5	13609.6	14239.5	17463.3	16392.0	14785.1
65°	4230.7	4171.2	4394.4	5039.1	5178.0	5837.6	7752.1	8238.2	10311.4	10127.8	8917.7
67.5°	2911.4	2921.3	3114.7	4096.8	4801.1	4741.5	4746.5	4999.4	5381.3	3997.6	3481.8
70°	1845.0	1840.1	1944.2	2638.6	3863.7	3903.3	3704.9	3630.6	3442.1	2083.1	2207.1
72.5°	1185.4	1150.7	1205.2	1458.2	1998.8	2311.3	2380.7	2425.3	1993.8	1636.7	1775.6
75°	669.6	634.9	615.0	679.5	788.6	912.6	1001.9	1031.6	1155.6	1239.9	1314.3
77.5°	203.4	183.5	223.2	297.6	391.8	525.7	639.8	659.6	778.7	877.9	952.3
80°	89.3	99.2	138.9	198.4	277.7	372.0	451.3	481.1	560.5	634.9	654.7
82.5°	54.6	59.5	94.2	133.9	193.4	262.9	322.4	332.3	411.7	471.2	486.1
85°	19.8	24.8	49.6	79.4	124.0	168.6	168.6	183.5	168.6	168.6	183.5
87.5°	0.0	0.0	5.0	9.9	9.9	14.9	19.8	19.8	24.8	29.8	34.7
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°	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2	12791.2
2.5°	12826.0	12801.2	12761.5	12617.7	12602.8	12558.1	12310.1	12270.5	12310.1	12191.1	12201.0
5°	12801.2	12875.6	12578.0	12434.1	12166.3	11972.9	11749.7	11635.6	11432.3	11303.3	11447.1
7.5°	12910.3	12880.5	12508.5	12196.1	11794.3	11303.3	10911.5	10688.3	10331.2	10232.0	10306.4
10°	12870.6	12711.9	12275.4	11863.8	11104.9	10673.4	10038.6	9423.6	9086.3	8912.7	8887.9
12.5°	12816.0	12771.4	12042.3	11333.1	10534.5	9626.9	8734.2	8153.9	7603.3	7365.3	7400.0
15°	12880.5	12503.6	11605.9	10708.1	9646.8	8456.4	7494.2	6745.3	6363.4	6209.6	6209.6
17.5°	12850.8	12374.6	11397.5	10008.8	8664.7	7256.1	6199.7	5748.4	5589.7	5589.7	5634.3
20°	12865.6	12458.9	10976.0	9309.5	7504.1	6110.4	5341.7	5178.0	5247.4	5272.2	5297.0
22.5°	12950.0	12181.2	10564.3	8540.7	6427.9	5227.6	4850.7	4855.6	4979.6	5113.5	5088.7
25°	13054.1	12072.1	10063.4	7776.9	5604.5	4796.1	4677.1	4662.2	4756.4	4825.9	4835.8
27.5°	12964.8	11883.6	9552.5	6824.6	4930.0	4508.4	4483.6	4493.6	4523.3	4662.2	4617.5
30°	13257.5	11938.2	8912.7	6026.1	4558.0	4414.2	4384.4	4369.6	4414.2	4453.9	4419.2
32.5°	13619.5	11744.7	8436.6	5257.4	4374.5	4344.8	4285.2	4265.4	4290.2	4250.5	4270.4
35°	13778.2	11710.0	7816.6	4706.8	4230.7	4205.9	4171.2	4166.2	4171.2	4136.4	4106.7
37.5°	13867.5	11873.7	7107.3	4453.9	4141.4	4166.2	4086.8	4076.9	3987.7	4007.5	4022.4
40°	14021.3	11620.7	6532.0	4210.8	4086.8	4037.3	3967.8	3952.9	3893.4	3858.7	3893.4
42.5°	13798.1	11546.3	5966.6	4106.7	4007.5	3952.9	3903.3	3819.0	3799.2	3769.4	3749.6
45°	13619.5	11119.8	5460.7	3977.7	3913.3	3883.5	3789.3	3700.0	3625.6	3655.3	3610.7
47.5°	13753.4	10971.0	4959.8	3868.6	3784.3	3749.6	3655.3	3585.9	3511.5	3476.8	3466.9
50°	14289.1	11248.8	4538.2	3789.3	3675.2	3655.3	3531.4	3452.0	3382.6	3357.8	3367.7
52.5°	15568.7	12007.6	4250.5	3625.6	3571.0	3481.8	3412.3	3313.1	3268.5	3189.1	3238.7
55°	17190.6	13242.6	4176.1	3471.8	3442.1	3362.7	3268.5	3194.1	3109.8	3045.3	3030.4
56°	17711.3	13832.8	4116.6	3412.3	3362.7	3318.1	3194.1	3149.5	3015.5	3000.7	2990.7
57.5°	18132.9	14353.6	4126.5	3298.2	3248.6	3209.0	3134.6	3025.5	2936.2	2881.6	2906.4
60°	17180.6	13436.0	3938.1	3124.7	3114.7	3040.3	2936.2	2886.6	2777.5	2713.0	2698.1
62.5°	12771.4	9121.0	3194.1	2901.5	2896.5	2817.1	2698.1	2643.6	2623.7	2534.4	2534.4
65°	7355.3	5718.6	2762.6	2718.0	2678.3	2598.9	2479.9	2435.2	2385.6	2355.9	2331.1
67.5°	3139.5	2965.9	2509.6	2504.7	2460.0	2360.9	2241.8	2172.4	2107.9	2048.4	2078.1
70°	2276.5	2311.3	2266.6	2241.8	2187.3	2063.3	1959.1	1874.8	1775.6	1735.9	1765.7
72.5°	1805.4	1879.8	1944.2	1949.2	1884.7	1740.9	1626.8	1512.7	1403.6	1349.1	1373.9
75°	1368.9	1418.5	1483.0	1497.9	1403.6	1304.4	1195.3	1076.3	992.0	927.5	937.4
77.5°	987.0	977.1	1036.6	1026.7	982.0	912.6	813.4	704.3	610.1	550.5	555.5
80°	674.5	689.4	724.1	719.2	664.6	620.0	545.6	456.3	386.9	337.3	327.3
82.5°	471.2	496.0	525.7	500.9	456.3	411.7	357.1	292.6	238.1	198.4	188.5
85°	168.6	193.4	223.2	238.1	252.9	243.0	203.4	163.7	119.0	99.2	94.2
87.5°	34.7	39.7	44.6	44.6	44.6	39.7	34.7	34.7	29.8	14.9	14.9
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)