

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: P651065

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651065
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-SA8C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 40467.2 lumens
Efficiency: N/A
Efficacy: 94.3 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

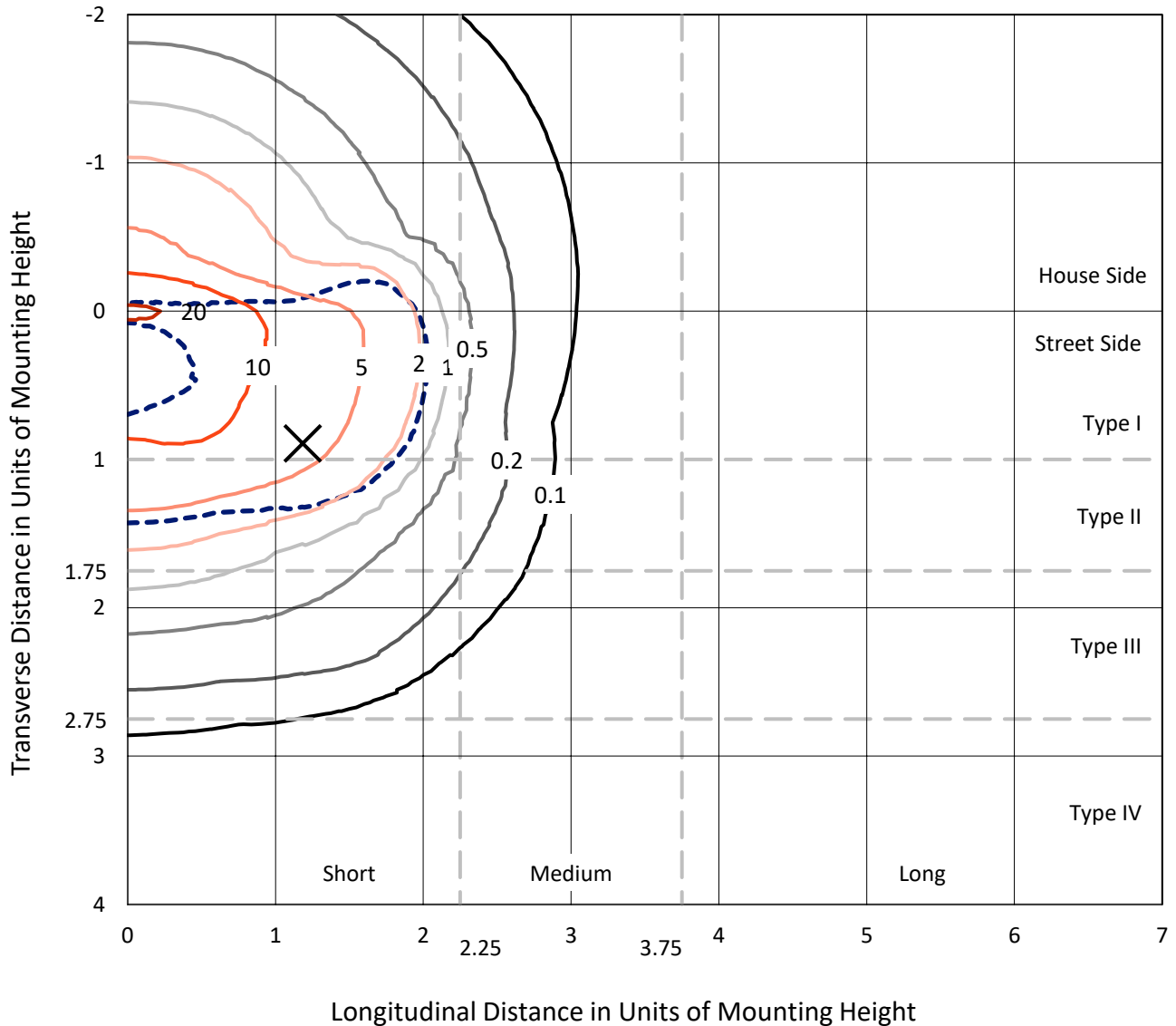
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

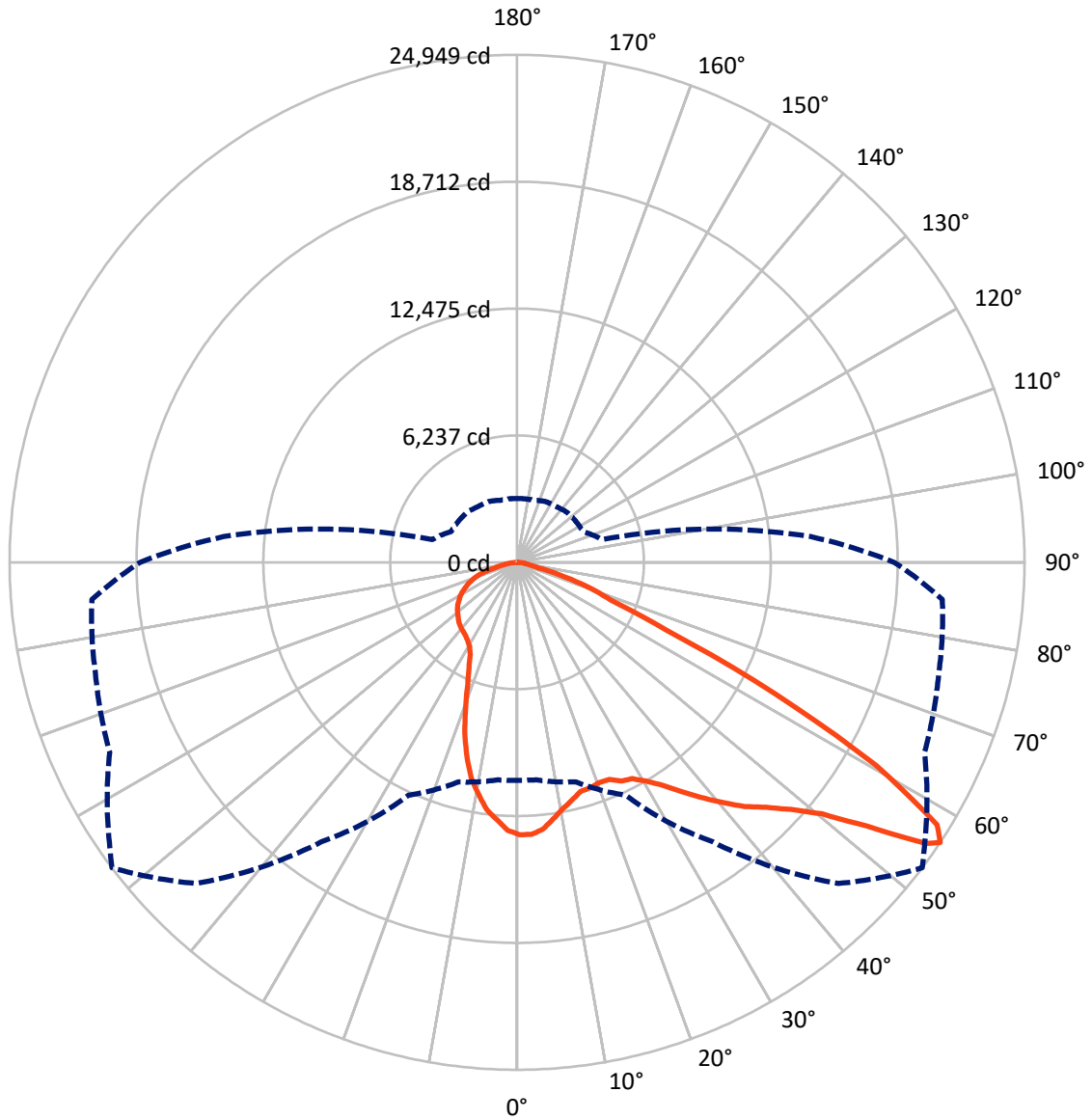
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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	11809.2	0.0	11809.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	28658.0	0.0	28658.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	40467.2	0.0	40467.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.2	2.9
10°-20°	2960.2	7.3
20°-30°	4365.1	10.8
30°-40°	6236.8	15.4
40°-50°	8584.2	21.2
50°-60°	10144.2	25.1
60°-70°	5406.2	13.4
70°-80°	1371.5	3.4
80°-90°	213.9	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°	40467.2	100.0
0°-180°	40467.2	100.0

Coefficient of Utilization

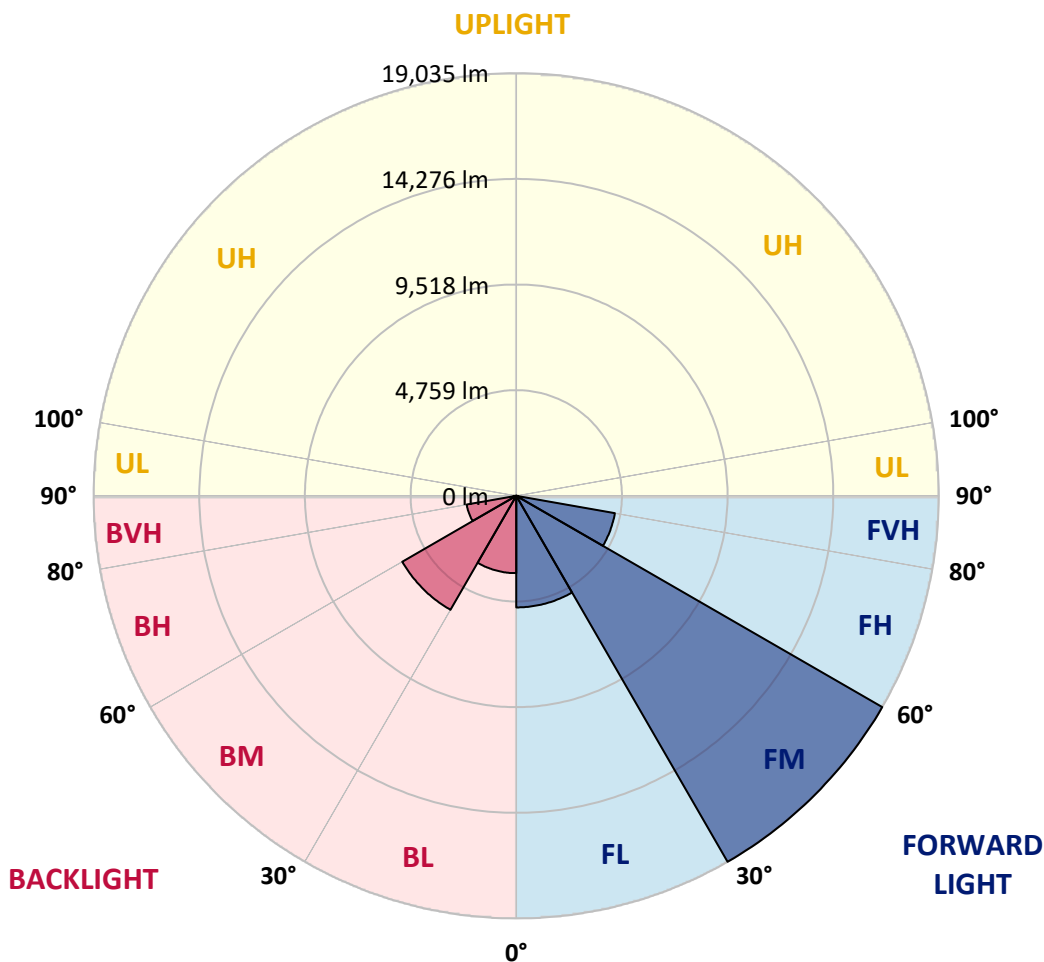


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5027.5	12.4			
FM (30°-60°)	19035.0	47.0			
FH (60°-80°)	4509.6	11.1			G2/5000
FVH (80°-90°)	86.0	0.2			G1/100
BL (0°-30°)	3483.0	8.6	B4/5000		
BM (30°-60°)	5930.2	14.7	B4/8500		
BH (60°-80°)	2268.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	127.9	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°	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1
2.5°	13222.0	13107.8	13175.4	13149.4	13362.2	13424.5	13393.3	13419.3	13538.7	13481.6	13362.2
5°	12355.1	12516.0	12547.2	12625.0	12749.6	12993.6	13185.7	13237.6	13294.7	13559.4	13533.5
7.5°	11566.0	11675.0	11617.9	11846.3	12116.3	12510.8	12744.4	12786.0	13310.3	13455.7	13564.7
10°	11067.6	10958.7	11218.3	11280.5	11586.8	12038.4	12318.8	12490.1	12967.6	13543.9	13611.4
12.5°	10605.7	10569.4	10725.0	10901.5	11244.2	11711.4	11996.9	12064.4	12801.5	13408.9	13725.6
15°	10263.1	10221.5	10377.3	10507.0	10906.8	11322.0	11685.4	11877.5	12619.9	13331.0	13627.0
17.5°	9993.1	9987.9	10076.2	10309.7	10719.9	11067.6	11654.3	11664.7	12526.4	13450.4	13710.0
20°	9977.5	9972.3	9987.9	10247.5	10621.2	11047.0	11555.7	11649.1	12526.4	13367.4	13715.2
22.5°	10107.3	10024.2	10117.7	10283.8	10553.7	11083.3	11592.0	11799.7	12827.5	13777.5	13948.8
25°	10314.9	10335.7	10387.6	10444.7	10600.5	11166.3	11913.9	12085.2	13180.5	14130.5	14270.7
27.5°	10693.9	10683.6	10704.3	10735.4	10870.4	11244.2	12043.6	12484.9	13917.6	14758.6	14618.5
30°	11249.4	11213.1	11296.1	11405.1	11280.5	11493.4	12474.5	12806.7	14602.9	15392.0	15007.8
32.5°	11752.9	11887.9	12043.6	12090.4	11939.8	11981.3	13045.5	13383.0	15173.9	16170.7	15485.4
35°	12381.0	12490.1	12697.8	12843.1	12817.1	12692.5	13824.2	14270.7	15999.4	16741.7	15988.9
37.5°	12993.6	13123.4	13466.0	13896.9	13658.1	13601.0	14654.8	15023.4	16253.7	17048.0	16357.5
40°	13979.9	13974.7	14566.5	14789.8	15002.6	14904.0	15516.5	15641.2	16388.7	16980.5	16367.9
42.5°	15137.6	15064.9	15667.1	16014.9	16290.1	16300.4	16414.6	16373.1	16451.0	16637.8	16258.9
45°	16238.1	16393.9	17001.2	17624.2	17899.3	17930.5	17172.5	17094.7	16560.0	16539.2	16051.2
47.5°	17582.7	17619.0	18117.3	18937.6	19576.1	19358.1	18153.7	17982.3	17037.6	17198.5	16399.1
50°	17660.5	17930.5	18376.9	19342.5	21304.8	21247.7	19425.6	19103.7	17805.9	18133.0	17369.8
52.5°	16030.5	15968.2	16497.7	18075.9	21175.0	23126.9	21533.2	20764.9	19456.7	19207.5	18942.8
55°	12214.9	12360.3	12827.5	14421.2	18387.3	23152.8	24403.9	23775.8	21221.7	20796.0	20489.8
56°	10714.7	10735.4	11176.7	12630.2	16778.0	22327.5	24949.0	24440.3	22099.0	21450.1	20983.0
57.5°	8882.1	8762.8	8991.2	9785.5	14161.7	20583.2	24352.0	24850.4	23126.9	22156.1	21507.2
60°	6992.6	6966.6	6873.2	7018.6	8949.7	15506.2	20271.7	21393.0	23023.0	21491.7	20598.8
62.5°	5710.3	5580.5	5767.4	5975.1	6219.1	9619.4	14244.7	14904.0	18278.3	17157.0	15475.0
65°	4428.1	4365.8	4599.4	5274.2	5419.7	6110.0	8113.9	8622.6	10792.6	10600.5	9333.8
67.5°	3047.3	3057.6	3260.1	4287.9	5025.1	4962.8	4968.0	5232.8	5632.5	4184.1	3644.2
70°	1931.1	1926.0	2035.0	2761.8	4043.9	4085.5	3877.9	3800.0	3602.7	2180.3	2310.1
72.5°	1240.7	1204.4	1261.5	1526.2	2092.1	2419.1	2491.8	2538.5	2086.9	1713.1	1858.4
75°	700.8	664.5	643.7	711.2	825.4	955.2	1048.6	1079.8	1209.5	1297.8	1375.7
77.5°	212.9	192.1	233.6	311.5	410.1	550.3	669.7	690.5	815.0	918.9	996.8
80°	93.4	103.9	145.3	207.6	290.7	389.4	472.4	503.5	586.6	664.5	685.2
82.5°	57.1	62.3	98.6	140.2	202.4	275.2	337.4	347.8	430.8	493.2	508.7
85°	20.8	26.0	51.9	83.1	129.8	176.5	176.5	192.1	176.5	176.5	192.1
87.5°	0.0	0.0	5.2	10.3	10.3	15.6	20.8	20.8	26.0	31.1	36.3
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°	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1	13388.1
2.5°	13424.5	13398.6	13357.0	13206.5	13190.9	13144.2	12884.6	12843.1	12884.6	12760.0	12770.4
5°	13398.6	13476.4	13164.9	13014.4	12734.1	12531.6	12298.0	12178.6	11965.7	11830.8	11981.3
7.5°	13512.8	13481.6	13092.3	12765.2	12344.7	11830.8	11420.7	11187.1	10813.3	10709.5	10787.3
10°	13471.2	13305.1	12848.3	12417.4	11623.1	11171.5	10507.0	9863.3	9510.3	9328.6	9302.6
12.5°	13414.1	13367.4	12604.3	11862.0	11026.2	10076.2	9141.8	8534.4	7958.1	7708.9	7745.3
15°	13481.6	13087.1	12147.5	11207.8	10097.0	8851.0	7843.9	7060.0	6660.3	6499.4	6499.4
17.5°	13450.4	12952.1	11929.4	10475.9	9069.1	7594.7	6489.0	6016.6	5850.5	5850.5	5897.3
20°	13466.0	13040.4	11488.1	9743.9	7854.4	6395.6	5591.0	5419.7	5492.3	5518.3	5544.2
22.5°	13554.3	12749.6	11057.3	8939.2	6727.8	5471.5	5077.0	5082.2	5212.0	5352.1	5326.2
25°	13663.3	12635.4	10533.0	8139.9	5866.1	5019.9	4895.3	4879.7	4978.4	5051.0	5061.5
27.5°	13569.9	12438.1	9998.3	7143.1	5160.0	4718.9	4692.9	4703.2	4734.4	4879.7	4833.1
30°	13876.2	12495.2	9328.6	6307.3	4770.7	4620.2	4589.0	4573.4	4620.2	4661.7	4625.4
32.5°	14255.1	12292.8	8830.2	5502.7	4578.7	4547.5	4485.2	4464.4	4490.4	4448.9	4469.7
35°	14421.2	12256.5	8181.3	4926.5	4428.1	4402.1	4365.8	4360.6	4365.8	4329.5	4298.4
37.5°	14514.7	12427.8	7439.0	4661.7	4334.7	4360.6	4277.6	4267.1	4173.7	4194.5	4210.0
40°	14675.6	12163.0	6836.8	4407.3	4277.6	4225.7	4152.9	4137.4	4075.1	4038.7	4075.1
42.5°	14442.0	12085.2	6245.0	4298.4	4194.5	4137.4	4085.5	3997.3	3976.5	3945.3	3924.5
45°	14255.1	11638.7	5715.5	4163.4	4095.8	4064.7	3966.1	3872.6	3794.8	3826.0	3779.2
47.5°	14395.2	11483.0	5191.2	4049.2	3960.9	3924.5	3826.0	3753.2	3675.4	3639.0	3628.7
50°	14955.9	11773.7	4750.0	3966.1	3846.7	3826.0	3696.1	3613.1	3540.4	3514.5	3524.8
52.5°	16295.2	12567.9	4448.9	3794.8	3737.7	3644.2	3571.6	3467.7	3421.0	3337.9	3389.9
55°	17992.8	13860.5	4371.0	3633.9	3602.7	3519.7	3421.0	3343.1	3254.9	3187.4	3171.8
56°	18537.8	14478.3	4308.7	3571.6	3519.7	3472.9	3343.1	3296.4	3156.3	3140.7	3130.3
57.5°	18979.1	15023.4	4319.1	3452.1	3400.2	3358.7	3280.8	3166.6	3073.2	3016.1	3042.1
60°	17982.3	14063.0	4121.8	3270.5	3260.1	3182.3	3073.2	3021.3	2907.1	2839.6	2824.0
62.5°	13367.4	9546.7	3343.1	3036.9	3031.6	2948.6	2824.0	2766.9	2746.1	2652.7	2652.7
65°	7698.6	5985.5	2891.5	2844.8	2803.2	2720.2	2595.6	2548.9	2497.0	2465.8	2439.9
67.5°	3286.0	3104.4	2626.8	2621.6	2574.8	2471.0	2346.4	2273.7	2206.3	2144.0	2175.2
70°	2382.8	2419.1	2372.4	2346.4	2289.4	2159.5	2050.5	1962.3	1858.4	1816.9	1848.1
72.5°	1889.6	1967.4	2035.0	2040.2	1972.6	1822.1	1702.7	1583.4	1469.1	1412.0	1437.9
75°	1432.8	1484.7	1552.1	1567.7	1469.1	1365.3	1251.1	1126.5	1038.2	970.8	981.1
77.5°	1033.1	1022.7	1085.0	1074.5	1027.9	955.2	851.3	737.1	638.5	576.3	581.4
80°	706.0	721.6	757.9	752.7	695.6	648.9	571.0	477.6	404.9	353.0	342.6
82.5°	493.2	519.1	550.3	524.3	477.6	430.8	373.7	306.3	249.2	207.6	197.3
85°	176.5	202.4	233.6	249.2	264.7	254.4	212.9	171.3	124.6	103.9	98.6
87.5°	36.3	41.5	46.8	46.8	46.8	41.5	36.3	36.3	31.1	15.6	15.6
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)