

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: P533120

Luminaire Tested: **GALN-SA8C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533120
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-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 44825 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

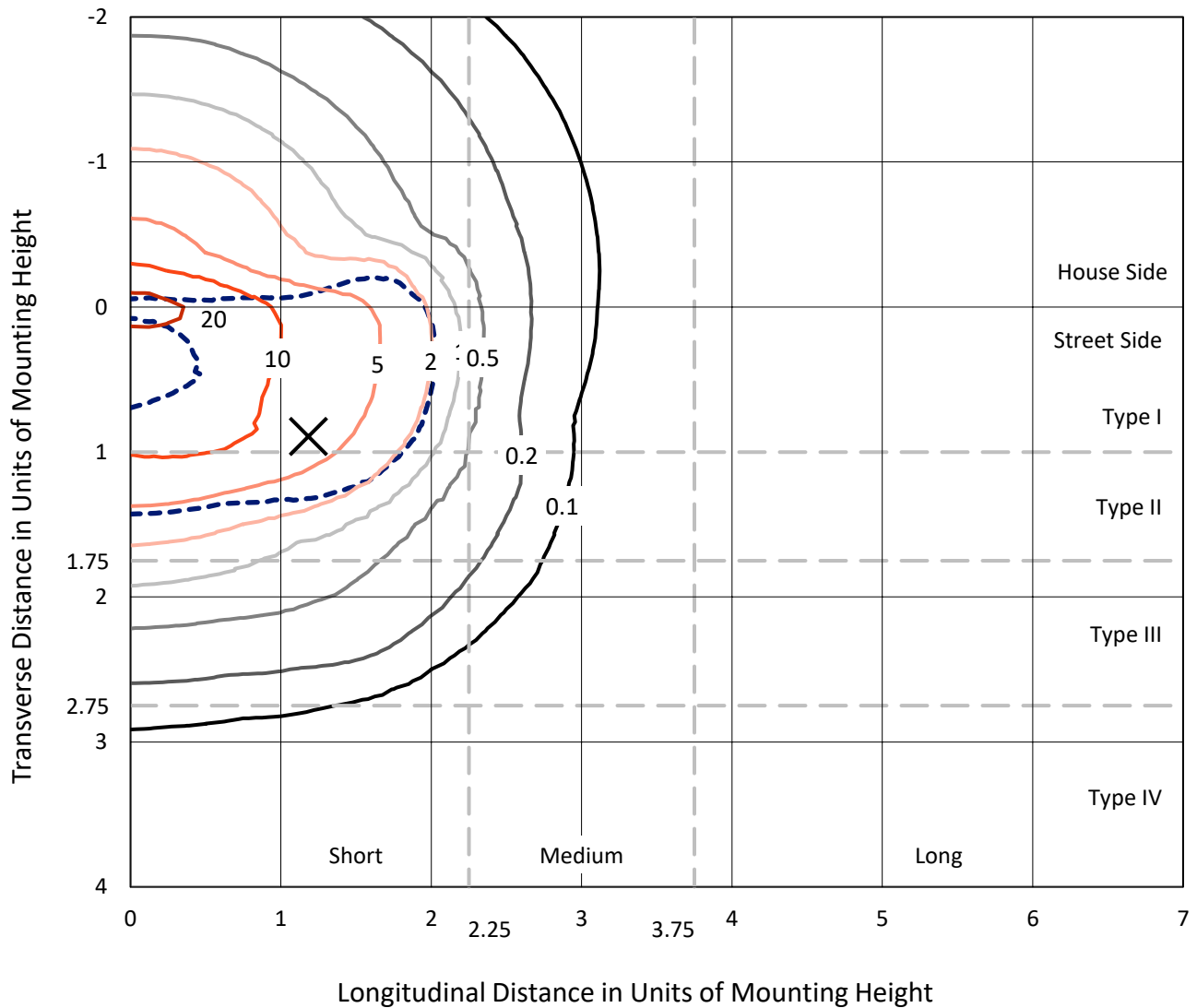
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

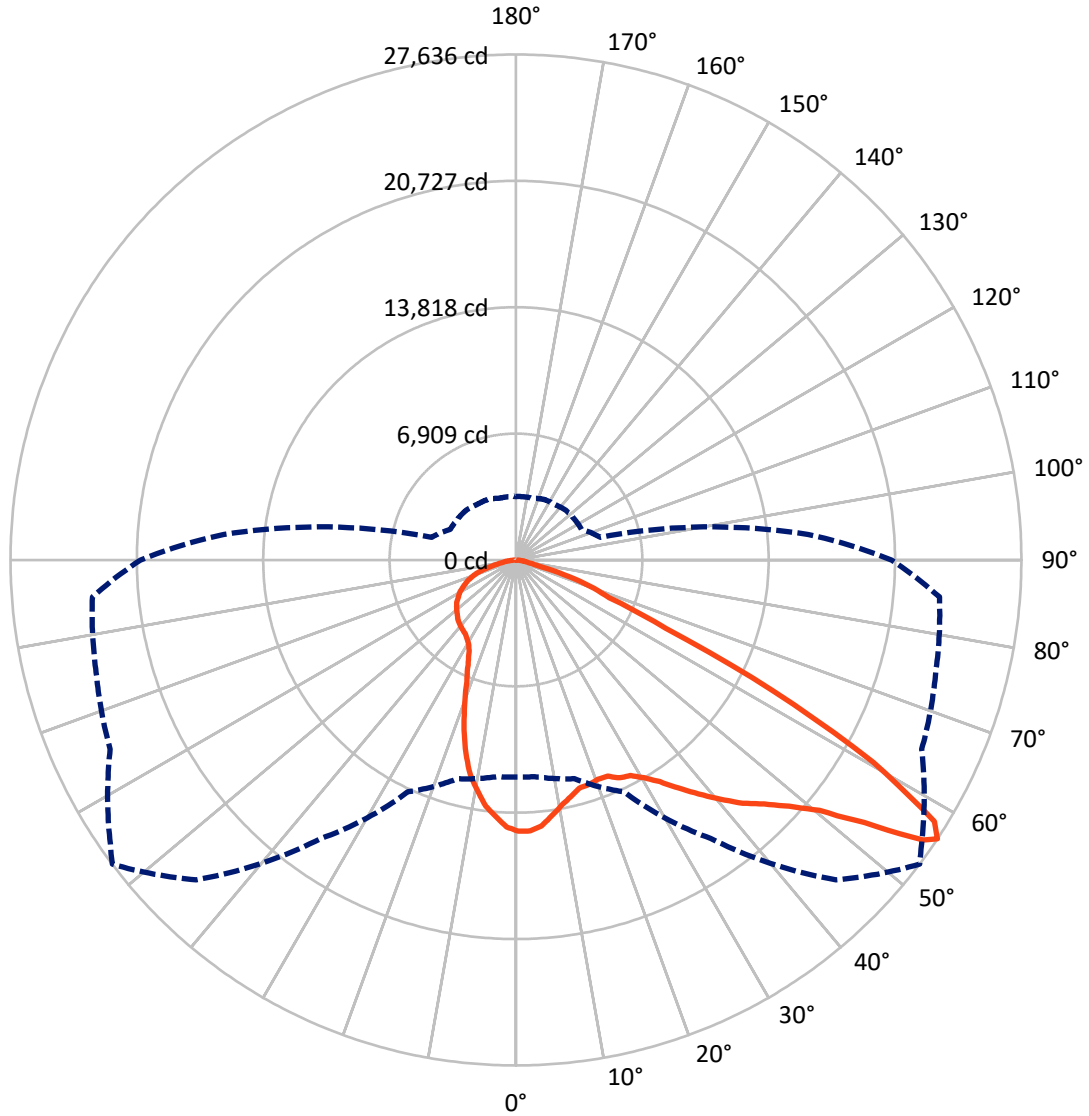
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 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	13080.9	0.0	13080.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	31744.1	0.0	31744.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	44825.0	0.0	44825.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1312.9	2.9
10°-20°	3279.0	7.3
20°-30°	4835.1	10.8
30°-40°	6908.5	15.4
40°-50°	9508.6	21.2
50°-60°	11236.6	25.1
60°-70°	5988.3	13.4
70°-80°	1519.2	3.4
80°-90°	236.9	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°	44825.0	100.0
0°-180°	44825.0	100.0



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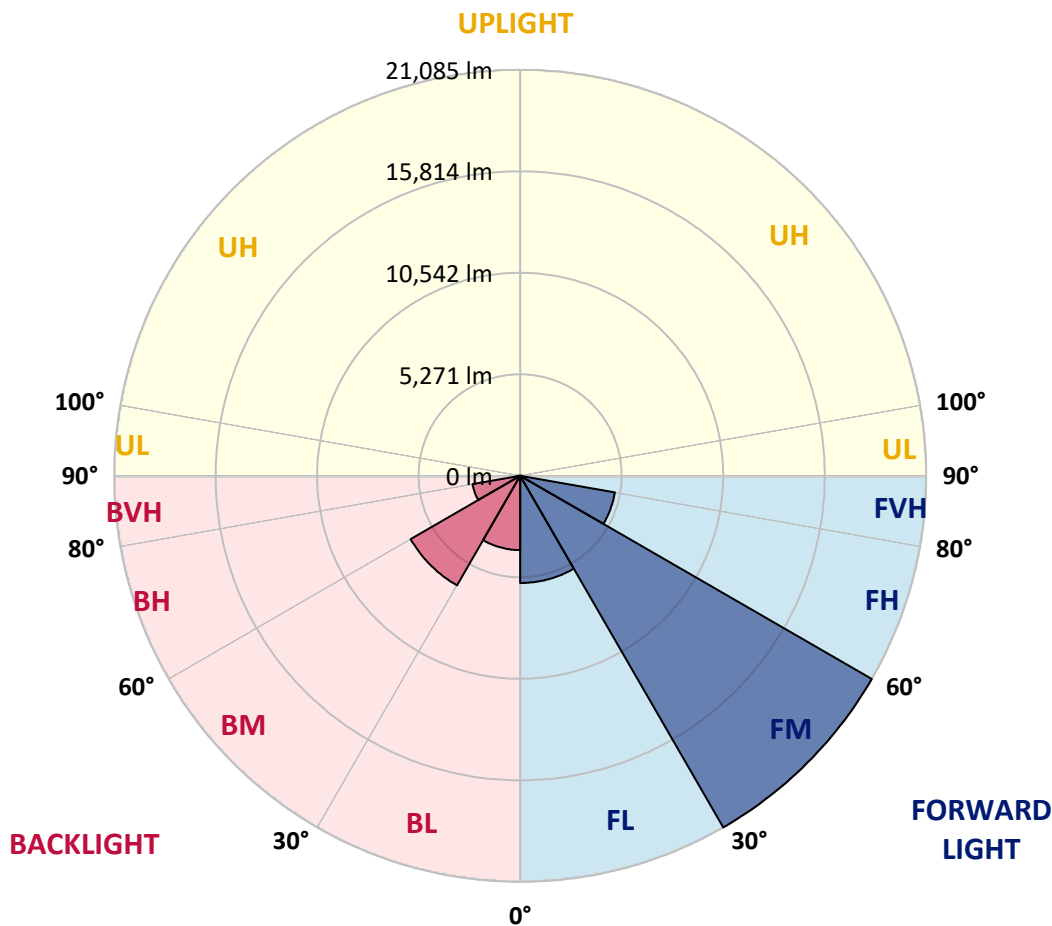
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5568.9	12.4			
FM (30°-60°)	21084.8	47.0			
FH (60°-80°)	4995.2	11.1			G2/5000
FVH (80°-90°)	95.2	0.2			G1/100
BL (0°-30°)	3858.1	8.6	B4/5000		
BM (30°-60°)	6568.8	14.7	B4/8500		
BH (60°-80°)	2512.4	5.6	B4/5000		G4/5000
BVH (80°-90°)	141.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9
2.5°	14645.9	14519.4	14594.1	14565.4	14801.1	14870.1	14835.6	14864.4	14996.6	14933.4	14801.1
5°	13685.6	13863.8	13898.3	13984.6	14122.6	14392.9	14605.6	14663.1	14726.4	15019.6	14990.9
7.5°	12811.5	12932.3	12869.0	13122.1	13421.1	13858.1	14116.8	14162.8	14743.6	14904.6	15025.4
10°	12259.5	12138.8	12426.3	12495.3	12834.5	13334.8	13645.3	13835.1	14364.1	15002.4	15077.1
12.5°	11747.7	11707.5	11880.0	12075.5	12455.0	12972.5	13288.8	13363.6	14180.1	14852.9	15203.6
15°	11368.2	11322.2	11494.7	11638.5	12081.3	12541.3	12943.8	13156.6	13978.8	14766.6	15094.4
17.5°	11069.2	11063.5	11161.2	11420.0	11874.3	12259.5	12909.3	12920.8	13875.3	14898.9	15186.4
20°	11052.0	11046.2	11063.5	11351.0	11765.0	12236.5	12800.0	12903.5	13875.3	14806.9	15192.1
22.5°	11195.7	11103.7	11207.2	11391.2	11690.2	12276.8	12840.3	13070.3	14208.9	15261.1	15450.9
25°	11425.7	11448.7	11506.2	11569.5	11742.0	12368.8	13196.8	13386.6	14599.9	15652.2	15807.4
27.5°	11845.5	11834.0	11857.0	11891.5	12041.0	12455.0	13340.6	13829.3	15416.4	16347.9	16192.7
30°	12460.8	12420.5	12512.5	12633.3	12495.3	12731.0	13817.8	14185.8	16175.4	17049.5	16624.0
32.5°	13018.6	13168.1	13340.6	13392.3	13225.6	13271.6	14450.4	14824.1	16808.0	17912.0	17153.0
35°	13714.3	13835.1	14065.1	14226.1	14197.3	14059.3	15312.9	15807.4	17722.2	18544.5	17710.7
37.5°	14392.9	14536.6	14916.1	15393.4	15128.9	15065.6	16232.9	16641.2	18004.0	18883.8	18119.0
40°	15485.4	15479.7	16135.2	16382.4	16618.2	16508.9	17187.5	17325.5	18153.5	18809.0	18130.5
42.5°	16767.7	16687.2	17354.2	17739.5	18044.3	18055.8	18182.3	18136.3	18222.5	18429.5	18009.8
45°	17986.8	18159.3	18832.0	19522.1	19826.8	19861.3	19021.8	18935.6	18343.3	18320.3	17779.8
47.5°	19476.1	19516.3	20068.3	20976.9	21684.2	21442.7	20108.6	19918.8	18872.3	19050.6	18165.0
50°	19562.3	19861.3	20355.9	21425.4	23599.0	23535.7	21517.4	21160.9	19723.3	20085.6	19240.3
52.5°	17756.8	17687.7	18274.3	20022.3	23455.2	25617.3	23852.0	23001.0	21551.9	21275.9	20982.6
55°	13530.3	13691.3	14208.9	15974.2	20367.4	25646.1	27031.9	26336.1	23507.0	23035.5	22696.2
56°	11868.5	11891.5	12380.3	13990.3	18584.8	24731.8	27635.7	27072.1	24478.8	23760.0	23242.5
57.5°	9838.7	9706.4	9959.4	10839.2	15686.7	22799.7	26974.4	27526.4	25617.3	24542.0	23823.3
60°	7745.6	7716.8	7613.3	7774.3	9913.4	17176.0	22454.7	23696.8	25502.3	23806.0	22817.0
62.5°	6325.3	6181.5	6388.5	6618.5	6888.8	10655.2	15778.7	16508.9	20246.6	19004.6	17141.5
65°	4905.0	4836.0	5094.7	5842.2	6003.3	6768.0	8987.6	9551.2	11954.8	11742.0	10338.9
67.5°	3375.4	3386.9	3611.2	4749.7	5566.2	5497.2	5503.0	5796.2	6239.0	4634.7	4036.7
70°	2139.1	2133.3	2254.1	3059.1	4479.4	4525.4	4295.4	4209.2	3990.7	2415.1	2558.9
72.5°	1374.3	1334.1	1397.3	1690.6	2317.3	2679.6	2760.1	2811.9	2311.6	1897.6	2058.6
75°	776.3	736.0	713.0	787.8	914.3	1058.0	1161.5	1196.1	1339.8	1437.6	1523.8
77.5°	235.8	212.8	258.8	345.0	454.3	609.5	741.8	764.8	902.8	1017.8	1104.0
80°	103.5	115.0	161.0	230.0	322.0	431.3	523.3	557.8	649.8	736.0	759.0
82.5°	63.3	69.0	109.3	155.3	224.3	304.8	373.8	385.3	477.3	546.3	563.5
85°	23.0	28.8	57.5	92.0	143.8	195.5	195.5	212.8	195.5	195.5	212.8
87.5°	0.0	0.0	5.8	11.5	11.5	17.3	23.0	23.0	28.8	34.5	40.3
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°	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9	14829.9
2.5°	14870.1	14841.4	14795.4	14628.6	14611.4	14559.6	14272.1	14226.1	14272.1	14134.1	14145.6
5°	14841.4	14927.6	14582.6	14415.9	14105.3	13881.1	13622.3	13490.1	13254.3	13104.8	13271.6
7.5°	14967.9	14933.4	14502.1	14139.8	13674.1	13104.8	12650.5	12391.8	11977.8	11862.8	11949.0
10°	14921.9	14737.9	14231.9	13754.6	12874.8	12374.5	11638.5	10925.5	10534.4	10333.2	10304.4
12.5°	14858.6	14806.9	13961.6	13139.3	12213.5	11161.2	10126.2	9453.4	8815.1	8539.1	8579.4
15°	14933.4	14496.4	13455.6	12414.8	11184.2	9804.2	8688.6	7820.3	7377.6	7199.3	7199.3
17.5°	14898.9	14346.9	13214.1	11604.0	10045.7	8412.6	7187.8	6664.5	6480.5	6480.5	6532.3
20°	14916.1	14444.6	12725.3	10793.2	8700.1	7084.3	6193.0	6003.3	6083.8	6112.5	6141.3
22.5°	15013.9	14122.6	12248.0	9901.9	7452.3	6060.8	5623.7	5629.5	5773.2	5928.5	5899.7
25°	15134.6	13996.1	11667.2	9016.4	6497.8	5560.5	5422.5	5405.2	5514.5	5595.0	5606.5
27.5°	15031.1	13777.6	11075.0	7912.3	5715.7	5227.0	5198.2	5209.7	5244.2	5405.2	5353.5
30°	15370.4	13840.8	10333.2	6986.5	5284.5	5117.7	5083.2	5066.0	5117.7	5163.7	5123.5
32.5°	15790.2	13616.6	9781.2	6095.3	5071.7	5037.2	4968.2	4945.2	4974.0	4928.0	4951.0
35°	15974.2	13576.3	9062.4	5457.0	4905.0	4876.2	4836.0	4830.2	4836.0	4795.7	4761.2
37.5°	16077.7	13766.1	8240.1	5163.7	4801.5	4830.2	4738.2	4726.7	4623.2	4646.2	4663.4
40°	16255.9	13472.8	7573.1	4882.0	4738.2	4680.7	4600.2	4582.9	4513.9	4473.7	4513.9
42.5°	15997.2	13386.6	6917.5	4761.2	4646.2	4582.9	4525.4	4427.7	4404.7	4370.2	4347.2
45°	15790.2	12892.0	6331.0	4611.7	4536.9	4502.4	4393.2	4289.7	4203.4	4237.9	4186.2
47.5°	15945.4	12719.5	5750.2	4485.2	4387.4	4347.2	4237.9	4157.4	4071.2	4030.9	4019.4
50°	16566.4	13041.6	5261.5	4393.2	4260.9	4237.9	4094.2	4002.2	3921.7	3892.9	3904.4
52.5°	18050.0	13921.3	4928.0	4203.4	4140.2	4036.7	3956.2	3841.2	3789.4	3697.4	3754.9
55°	19930.3	15353.1	4841.7	4025.2	3990.7	3898.7	3789.4	3703.2	3605.4	3530.6	3513.4
56°	20534.1	16037.4	4772.7	3956.2	3898.7	3846.9	3703.2	3651.4	3496.1	3478.9	3467.4
57.5°	21022.9	16641.2	4784.2	3823.9	3766.4	3720.4	3634.2	3507.6	3404.1	3340.9	3369.6
60°	19918.8	15577.4	4565.7	3622.7	3611.2	3524.9	3404.1	3346.6	3220.1	3145.4	3128.1
62.5°	14806.9	10574.7	3703.2	3363.9	3358.1	3266.1	3128.1	3064.9	3041.9	2938.4	2938.4
65°	8527.6	6630.0	3202.9	3151.1	3105.1	3013.1	2875.1	2823.4	2765.9	2731.4	2702.6
67.5°	3639.9	3438.6	2909.6	2903.9	2852.1	2737.1	2599.1	2518.6	2443.9	2374.9	2409.4
70°	2639.4	2679.6	2627.9	2599.1	2535.9	2392.1	2271.3	2173.6	2058.6	2012.6	2047.1
72.5°	2093.1	2179.3	2254.1	2259.8	2185.1	2018.3	1886.1	1753.8	1627.3	1564.1	1592.8
75°	1587.1	1644.6	1719.3	1736.6	1627.3	1512.3	1385.8	1247.8	1150.0	1075.3	1086.8
77.5°	1144.3	1132.8	1201.8	1190.3	1138.5	1058.0	943.0	816.5	707.3	638.3	644.0
80°	782.0	799.3	839.5	833.8	770.5	718.8	632.5	529.0	448.5	391.0	379.5
82.5°	546.3	575.0	609.5	580.8	529.0	477.3	414.0	339.3	276.0	230.0	218.5
85°	195.5	224.3	258.8	276.0	293.3	281.8	235.8	189.8	138.0	115.0	109.3
87.5°	40.3	46.0	51.8	51.8	51.8	46.0	40.3	40.3	34.5	17.3	17.3
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)