

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: P647600

Luminaire Tested: **GALN-SA8D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647600
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-SA8D-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA 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: 41457.5 lumens
Efficiency: N/A
Efficacy: 84.1 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

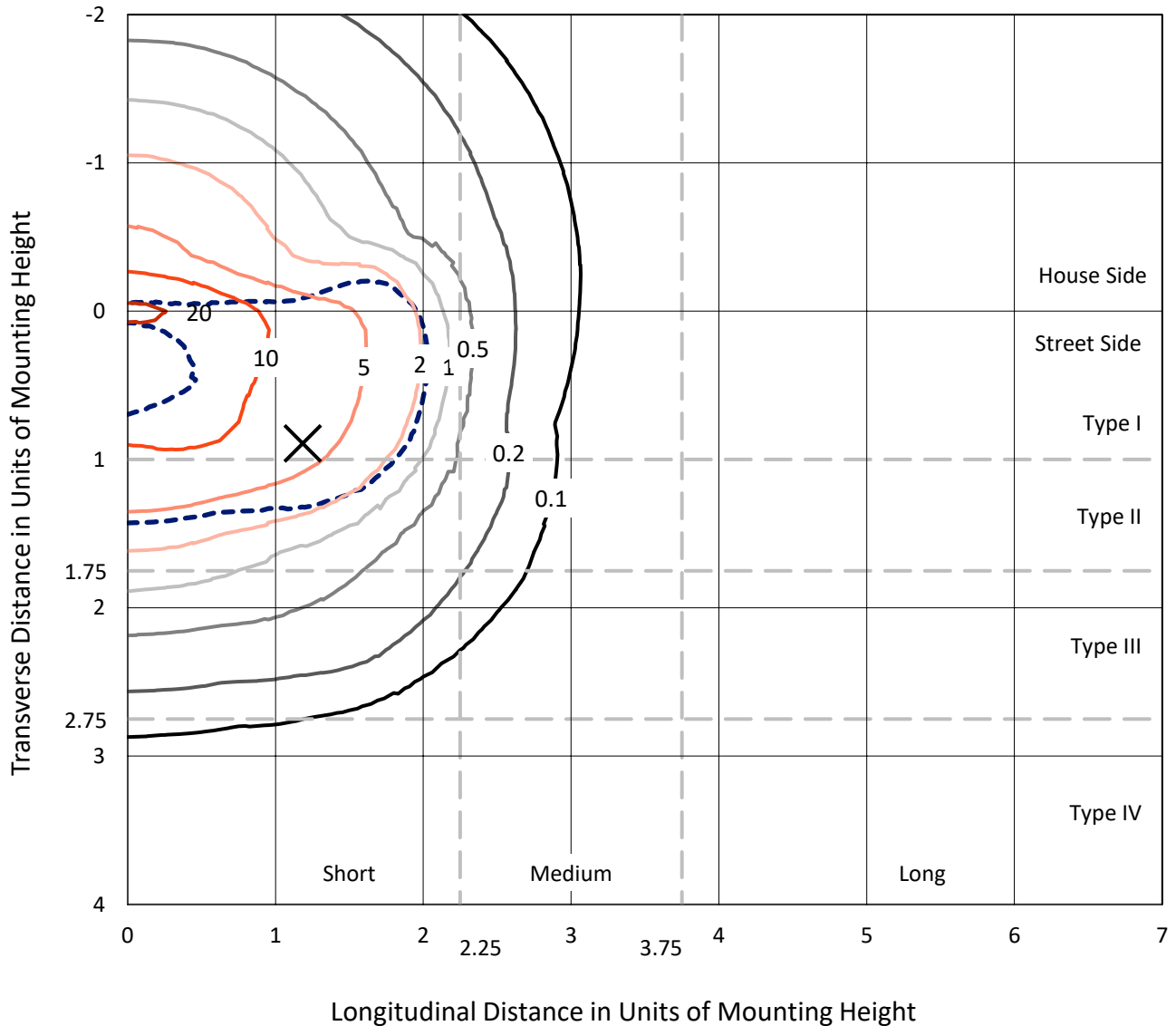
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

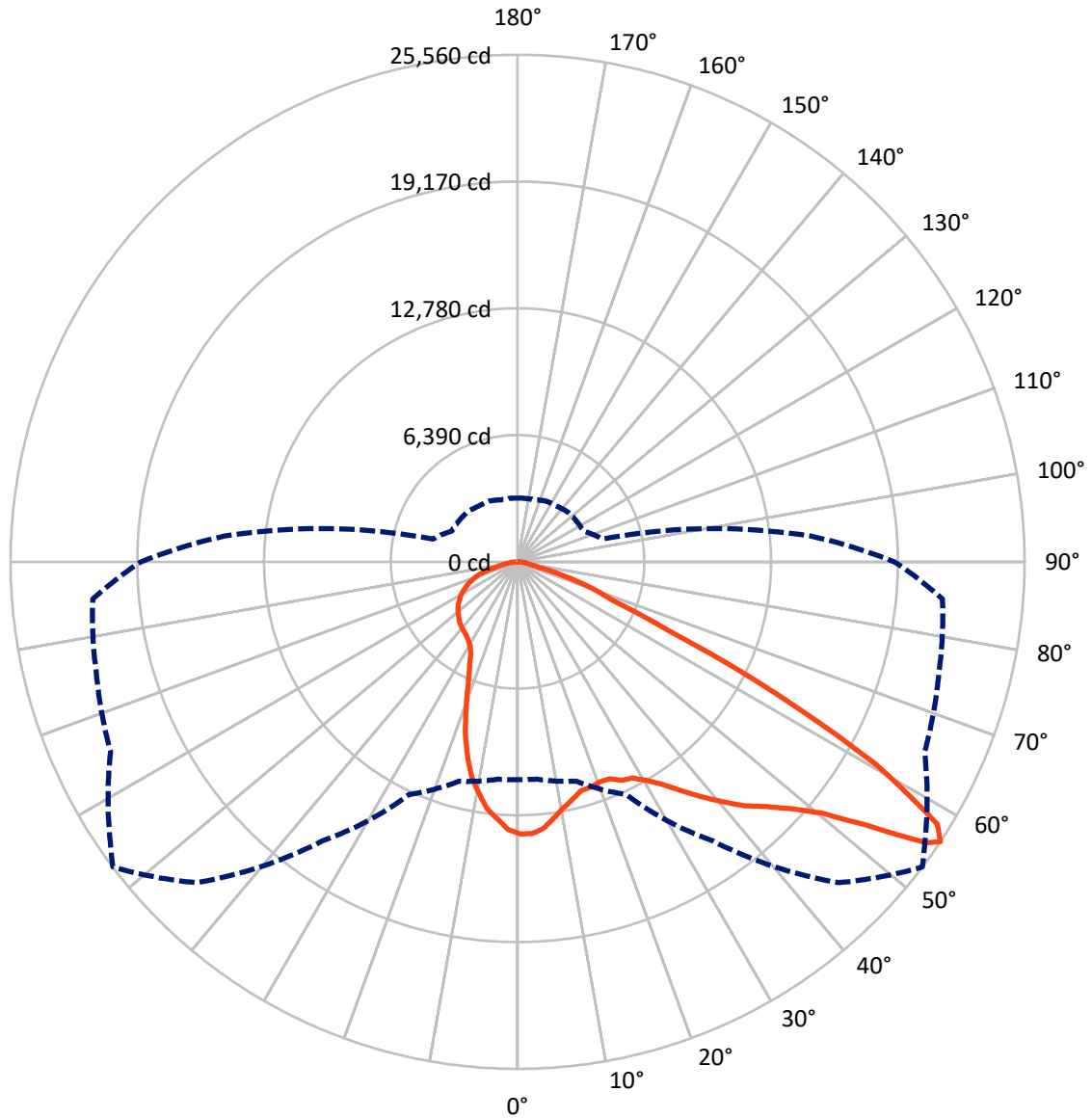
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	12098.2	0.0	12098.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	29359.3	0.0	29359.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	41457.5	0.0	41457.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1214.2	2.9
10°-20°	3032.6	7.3
20°-30°	4471.9	10.8
30°-40°	6389.5	15.4
40°-50°	8794.2	21.2
50°-60°	10392.4	25.1
60°-70°	5538.5	13.4
70°-80°	1405.1	3.4
80°-90°	219.1	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°	41457.5	100.0
0°-180°	41457.5	100.0

Coefficient of Utilization



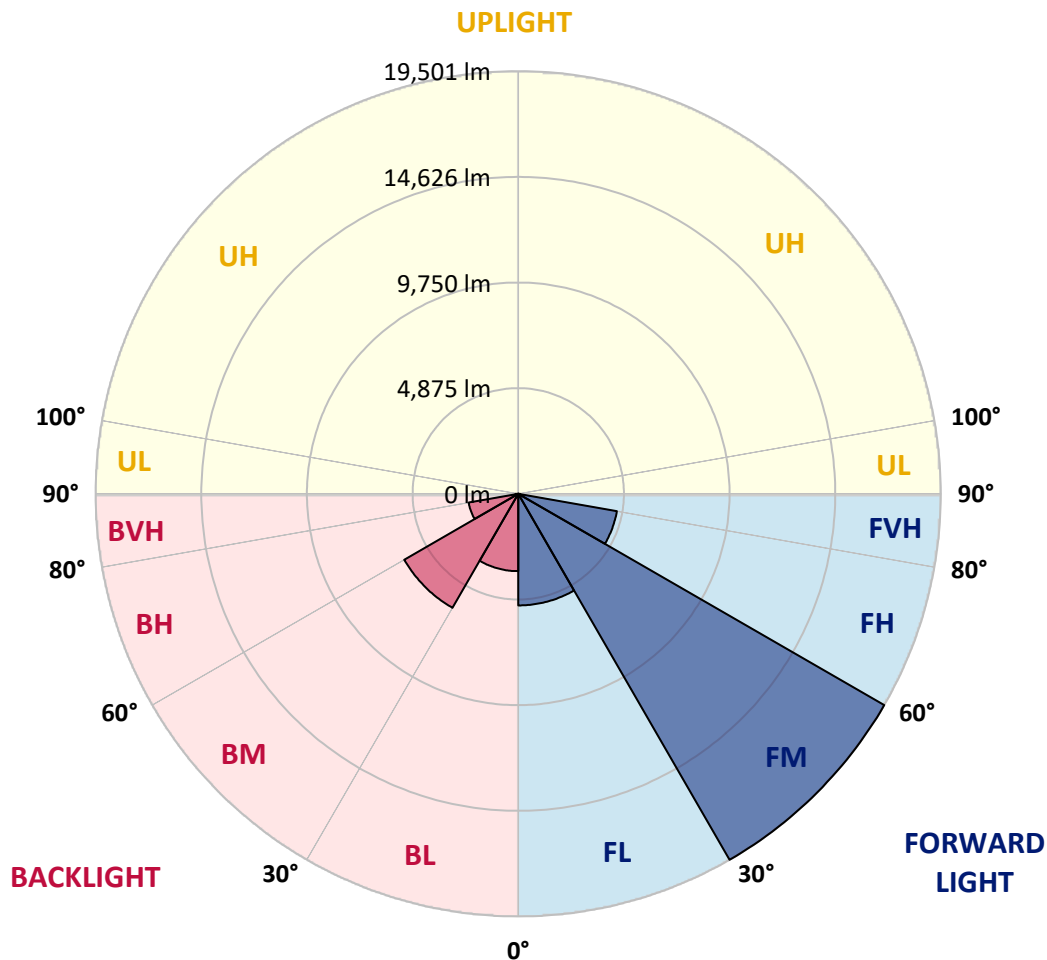
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5150.5	12.4			
FM (30°-60°)	19500.8	47.0			
FH (60°-80°)	4619.9	11.1			G2/5000
FVH (80°-90°)	88.1	0.2			G1/100
BL (0°-30°)	3568.2	8.6	B4/5000		
BM (30°-60°)	6075.3	14.7	B4/8500		
BH (60°-80°)	2323.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	131.0	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°	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8
2.5°	13545.6	13428.6	13497.7	13471.1	13689.2	13753.0	13721.1	13747.7	13870.0	13811.5	13689.2
5°	12657.4	12822.3	12854.2	12934.0	13061.6	13311.6	13508.4	13561.6	13620.1	13891.3	13864.7
7.5°	11849.1	11960.7	11902.2	12136.3	12412.8	12817.0	13056.3	13098.9	13636.0	13784.9	13896.6
10°	11338.5	11226.8	11492.7	11556.5	11870.4	12333.0	12620.2	12795.7	13285.0	13875.3	13944.4
12.5°	10865.2	10828.0	10987.5	11168.3	11519.3	11998.0	12290.5	12359.7	13114.8	13737.0	14061.4
15°	10514.2	10471.6	10631.2	10764.1	11173.6	11599.1	11971.4	12168.1	12928.7	13657.2	13960.4
17.5°	10237.6	10232.3	10322.8	10562.0	10982.2	11338.5	11939.5	11950.1	12833.0	13779.6	14045.5
20°	10221.7	10216.3	10232.3	10498.2	10881.1	11317.2	11838.4	11934.2	12833.0	13694.5	14050.9
22.5°	10354.6	10269.5	10365.3	10535.4	10812.0	11354.4	11875.7	12088.4	13141.4	14114.7	14290.1
25°	10567.4	10588.7	10641.8	10700.3	10859.9	11439.6	12205.4	12380.9	13503.1	14476.3	14619.9
27.5°	10955.6	10944.9	10966.2	10998.2	11136.5	11519.3	12338.4	12790.4	14258.3	15119.8	14976.2
30°	11524.7	11487.4	11572.5	11684.2	11556.5	11774.6	12779.7	13120.1	14960.2	15768.6	15375.1
32.5°	12040.5	12178.8	12338.4	12386.2	12231.9	12274.5	13364.8	13710.5	15545.3	16566.3	15864.4
35°	12684.1	12795.7	13008.4	13157.4	13130.8	13003.1	14162.5	14619.9	16390.9	17151.4	16380.2
37.5°	13311.6	13444.6	13795.5	14237.0	13992.3	13933.8	15013.4	15391.0	16651.4	17465.1	16757.8
40°	14322.1	14316.8	14923.0	15151.7	15369.7	15268.7	15896.2	16023.9	16789.7	17396.0	16768.4
42.5°	15508.0	15433.6	16050.5	16406.8	16688.7	16699.4	16816.3	16773.7	16853.5	17045.0	16656.8
45°	16635.5	16795.0	17417.3	18055.4	18337.3	18369.3	17592.8	17513.0	16965.3	16944.0	16444.0
47.5°	18012.9	18050.2	18560.7	19401.0	20055.1	19831.7	18597.9	18422.4	17454.5	17619.4	16800.4
50°	18092.7	18369.3	18826.6	19815.9	21826.1	21767.6	19900.9	19571.2	18241.6	18576.7	17794.8
52.5°	16422.8	16359.0	16901.4	18518.2	21693.2	23692.8	22060.1	21273.0	19932.8	19677.6	19406.3
55°	12513.8	12662.8	13141.4	14774.1	18837.3	23719.4	25001.1	24357.6	21741.0	21305.0	20991.1
56°	10976.9	10998.2	11450.2	12939.3	17188.6	22873.8	25559.5	25038.3	22639.8	21975.1	21496.4
57.5°	9099.6	8977.2	9211.2	10024.9	14508.2	21086.9	24947.9	25458.5	23692.8	22698.3	22033.5
60°	7163.7	7137.1	7041.4	7190.3	9168.7	15885.7	20767.7	21916.5	23586.5	22017.6	21102.9
62.5°	5850.1	5717.2	5908.6	6121.3	6371.3	9854.8	14593.3	15268.7	18725.6	17576.9	15853.7
65°	4536.5	4472.7	4711.9	5403.3	5552.3	6259.6	8312.4	8833.6	11056.7	10859.9	9562.2
67.5°	3121.8	3132.5	3339.9	4392.9	5148.1	5084.3	5089.6	5360.8	5770.3	4286.5	3733.4
70°	1978.4	1973.1	2084.7	2829.3	4142.9	4185.4	3972.7	3893.0	3690.9	2233.7	2366.6
72.5°	1271.0	1233.9	1292.3	1563.6	2143.2	2478.3	2552.7	2600.7	2137.9	1755.0	1903.9
75°	717.9	680.7	659.4	728.6	845.6	978.6	1074.3	1106.2	1239.2	1329.5	1409.3
77.5°	218.1	196.8	239.3	319.1	420.2	563.8	686.1	707.4	835.0	941.3	1021.1
80°	95.8	106.3	148.9	212.7	297.9	398.9	484.0	515.8	601.0	680.7	702.0
82.5°	58.5	63.8	101.1	143.6	207.4	281.9	345.7	356.3	441.4	505.3	521.2
85°	21.3	26.6	53.2	85.1	133.0	180.8	180.8	196.8	180.8	180.8	196.8
87.5°	0.0	0.0	5.3	10.6	10.6	16.0	21.3	21.3	26.6	31.9	37.2
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°	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8	13715.8
2.5°	13753.0	13726.4	13683.9	13529.6	13513.7	13465.8	13199.9	13157.4	13199.9	13072.3	13082.9
5°	13726.4	13806.2	13487.1	13332.8	13045.6	12838.2	12598.9	12476.6	12258.6	12120.3	12274.5
7.5°	13843.4	13811.5	13412.6	13077.6	12646.8	12120.3	11700.1	11460.8	11077.9	10971.6	11051.3
10°	13800.8	13630.7	13162.7	12721.2	11907.6	11444.9	10764.1	10104.7	9743.0	9556.9	9530.3
12.5°	13742.4	13694.5	12912.7	12152.2	11295.9	10322.8	9365.5	8743.2	8152.9	7897.6	7934.8
15°	13811.5	13407.3	12444.7	11482.1	10344.0	9067.6	8035.9	7232.8	6823.3	6658.5	6658.5
17.5°	13779.6	13269.0	12221.4	10732.3	9291.0	7780.6	6647.8	6163.9	5993.7	5993.7	6041.5
20°	13795.5	13359.5	11769.3	9982.4	8046.5	6552.1	5727.7	5552.3	5626.7	5653.3	5679.9
22.5°	13886.0	13061.6	11327.9	9158.0	6892.4	5605.4	5201.2	5206.6	5339.5	5483.1	5456.5
25°	13997.6	12944.6	10790.8	8339.0	6009.6	5142.7	5015.1	4999.1	5100.2	5174.7	5185.3
27.5°	13901.9	12742.5	10243.0	7317.9	5286.3	4834.3	4807.7	4818.3	4850.2	4999.1	4951.3
30°	14215.7	12801.0	9556.9	6461.7	4887.5	4733.2	4701.4	4685.4	4733.2	4775.8	4738.6
32.5°	14603.9	12593.6	9046.3	5637.4	4690.7	4658.8	4595.0	4573.7	4600.3	4557.8	4579.0
35°	14774.1	12556.4	8381.5	5047.1	4536.5	4509.8	4472.7	4467.3	4472.7	4435.5	4403.5
37.5°	14869.9	12731.9	7621.1	4775.8	4440.7	4467.3	4382.2	4371.6	4275.9	4297.2	4313.1
40°	15034.7	12460.7	7004.2	4515.2	4382.2	4329.1	4254.6	4238.6	4174.8	4137.6	4174.8
42.5°	14795.4	12380.9	6397.9	4403.5	4297.2	4238.6	4185.4	4095.1	4073.8	4041.8	4020.6
45°	14603.9	11923.5	5855.4	4265.2	4196.1	4164.2	4063.1	3967.4	3887.7	3919.5	3871.7
47.5°	14747.5	11763.9	5318.2	4148.3	4057.8	4020.6	3919.5	3845.1	3765.3	3728.1	3717.4
50°	15321.9	12061.8	4866.2	4063.1	3940.8	3919.5	3786.6	3701.5	3627.0	3600.5	3611.1
52.5°	16694.0	12875.5	4557.8	3887.7	3829.1	3733.4	3659.0	3552.6	3504.7	3419.7	3472.8
55°	18433.1	14199.7	4478.0	3722.8	3690.9	3605.8	3504.7	3424.9	3334.6	3265.4	3249.5
56°	18991.5	14832.6	4414.2	3659.0	3605.8	3557.9	3424.9	3377.1	3233.5	3217.6	3206.9
57.5°	19443.5	15391.0	4424.8	3536.7	3483.5	3440.9	3361.1	3244.1	3148.4	3089.9	3116.5
60°	18422.4	14407.1	4222.7	3350.5	3339.9	3260.1	3148.4	3095.2	2978.2	2909.1	2893.1
62.5°	13694.5	9780.3	3424.9	3111.2	3105.8	3020.7	2893.1	2834.6	2813.3	2717.6	2717.6
65°	7887.0	6131.9	2962.2	2914.4	2871.9	2786.8	2659.1	2611.2	2558.1	2526.2	2499.6
67.5°	3366.4	3180.3	2691.0	2685.7	2637.8	2531.5	2403.9	2329.4	2260.3	2196.5	2228.3
70°	2441.1	2478.3	2430.4	2403.9	2345.3	2212.4	2100.7	2010.3	1903.9	1861.4	1893.3
72.5°	1935.8	2015.6	2084.7	2090.1	2020.9	1866.7	1744.4	1622.1	1505.1	1446.6	1473.1
75°	1467.8	1521.1	1590.2	1606.1	1505.1	1398.7	1281.7	1154.1	1063.6	994.5	1005.1
77.5°	1058.3	1047.7	1111.5	1100.9	1053.0	978.6	872.2	755.2	654.1	590.3	595.6
80°	723.3	739.2	776.5	771.2	712.6	664.8	585.0	489.3	414.8	361.7	351.0
82.5°	505.3	531.8	563.8	537.1	489.3	441.4	382.9	313.7	255.3	212.7	202.1
85°	180.8	207.4	239.3	255.3	271.2	260.6	218.1	175.5	127.6	106.3	101.1
87.5°	37.2	42.5	47.8	47.8	47.8	42.5	37.2	37.2	31.9	16.0	16.0
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)