

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: P533388

Luminaire Tested: **GALN-SA8D-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52397 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

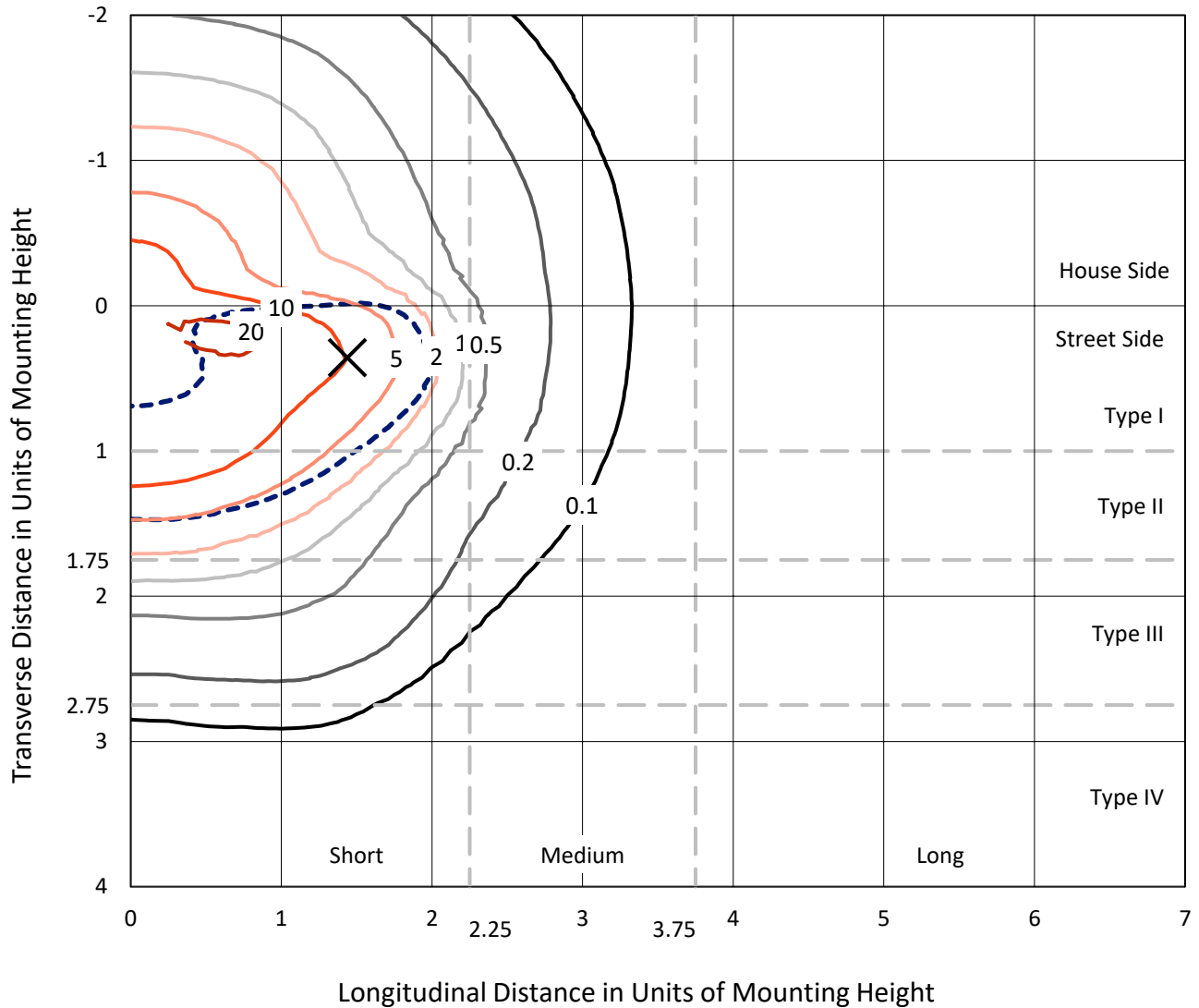
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

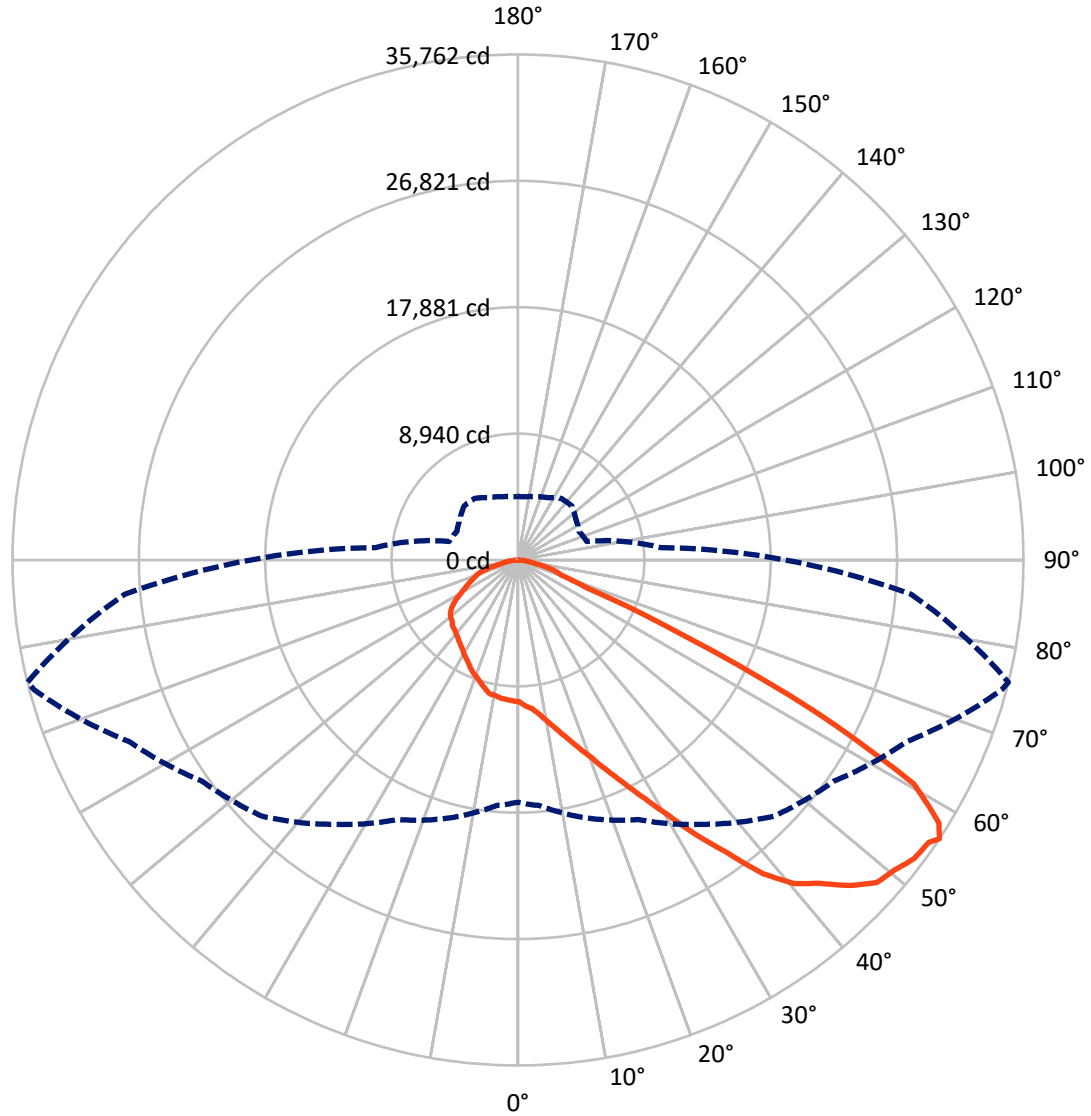
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14088.0	0.0	14088.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	38309.0	0.0	38309.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	52397.0	0.0	52397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	994.2	1.9
10°-20°	3123.2	6.0
20°-30°	5462.1	10.4
30°-40°	8552.0	16.3
40°-50°	12440.7	23.7
50°-60°	13673.1	26.1
60°-70°	6103.1	11.6
70°-80°	1762.8	3.4
80°-90°	285.9	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°	52397.0	100.0
0°-180°	52397.0	100.0

Coefficient of Utilization



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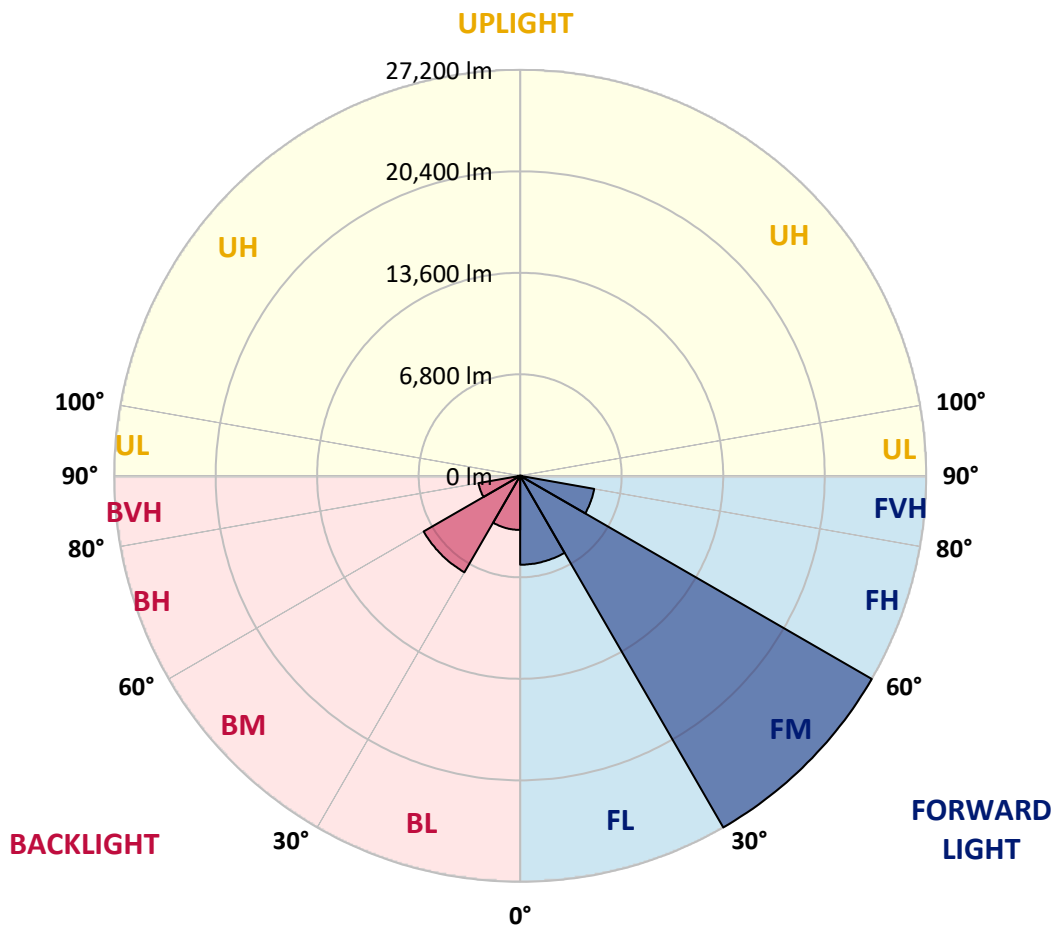
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5954.3	11.4			
FM (30°-60°)	27200.3	51.9			
FH (60°-80°)	5031.4	9.6			G3/7500
FVH (80°-90°)	123.1	0.2			G2/225
BL (0°-30°)	3625.1	6.9	B4/5000		
BM (30°-60°)	7465.5	14.2	B4/8500		
BH (60°-80°)	2834.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	162.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5
2.5°	11044.3	10867.7	10854.2	10806.6	10833.8	10711.5	10582.5	10412.7	10236.1	10344.7	10086.6
5°	11818.7	11580.9	11676.0	11513.0	11533.4	11370.4	11105.5	10908.5	10691.1	10562.1	10378.7
7.5°	12090.4	12110.7	12178.7	12151.5	12015.6	12015.6	11839.0	11492.6	11112.3	11037.6	10731.9
10°	12457.2	12463.9	12389.2	12409.6	12599.8	12511.5	12355.3	12205.8	11716.8	11628.5	11085.1
12.5°	12586.2	12463.9	12586.2	12694.9	12919.0	13041.3	13007.3	12898.7	12375.6	12314.5	11519.8
15°	12606.6	12531.9	12633.8	12878.3	13075.3	13591.5	13849.6	13774.9	13082.0	13088.8	12008.9
17.5°	12511.5	12613.4	12654.1	12864.7	13319.8	13802.0	14549.2	14651.1	14080.5	13992.2	12627.0
20°	12640.5	12565.8	12620.2	12810.4	13414.9	14168.8	15146.9	15819.4	15017.9	14956.7	13265.4
22.5°	13136.4	13034.5	13020.9	13143.2	13577.9	14359.0	15778.6	16987.6	16159.0	16192.9	14060.1
25°	13523.5	13577.9	13530.3	13523.5	13795.2	14644.3	16614.1	18380.1	17707.6	17510.7	14997.5
27.5°	14189.2	14318.3	14223.2	14352.2	14291.1	15072.2	17211.8	19921.9	19378.5	19113.6	15846.5
30°	15113.0	15180.9	15092.6	15092.6	14909.2	15669.9	17755.2	21531.7	21307.6	20947.6	16845.0
32.5°	16328.8	16430.7	16254.1	16152.2	16125.0	16559.7	18733.3	23121.1	23501.5	23195.8	18169.5
35°	17938.6	17877.4	17666.9	17571.8	17205.0	17925.0	20186.8	24948.3	25946.7	25403.3	19772.5
37.5°	19358.2	19263.1	19249.5	18719.7	18808.0	19398.9	21423.0	26333.9	28317.3	28161.0	21463.8
40°	20682.7	20771.0	20913.6	20614.8	20478.9	21131.0	22863.0	27393.5	30158.0	30096.9	22767.9
42.5°	22102.3	22020.8	22272.1	22020.8	21817.0	22740.8	24425.3	28127.1	31774.6	31271.9	24133.2
45°	24160.4	23902.2	23990.5	24010.9	23861.5	24201.1	25070.5	28656.9	32908.9	32854.5	25131.7
47.5°	25878.8	25885.6	25736.2	25620.7	25165.6	25505.2	25790.5	28989.7	34213.0	34124.7	25518.8
50°	26517.3	26429.0	26863.7	27115.0	27142.2	26449.4	26354.3	29173.1	34899.0	34511.9	25906.0
52.5°	24221.5	24303.0	24989.0	26483.3	27346.0	27420.7	27013.1	29553.5	35177.5	35096.0	26218.4
55°	19494.0	19888.0	21015.5	22740.8	24785.2	27033.5	27726.3	29947.4	35327.0	35259.0	27604.1
56°	17137.1	17442.7	18909.9	20261.5	22829.1	25627.5	27278.0	30368.6	35442.4	35761.7	27930.1
57.5°	13795.2	14148.4	15201.3	16736.3	19765.7	22951.3	26041.8	29852.3	34994.1	35116.4	28167.8
60°	8626.3	8660.2	9923.6	10935.7	13068.5	16179.4	19874.4	25973.9	32385.9	32209.3	25301.5
62.5°	5658.0	5664.8	6812.7	7641.4	8612.7	9325.9	11696.4	17225.4	23895.5	23583.0	18013.3
65°	3973.5	4061.8	4951.6	6058.8	6452.7	6079.1	6004.4	9081.4	13346.9	12898.7	9679.1
67.5°	2907.1	2913.9	3701.8	4890.5	5461.0	4625.6	3756.2	4435.4	5284.4	5270.9	4482.9
70°	1922.2	2003.7	2608.3	3654.3	4306.3	3715.4	3070.1	3172.0	3362.2	3362.2	3335.0
72.5°	1120.7	1195.5	1596.2	2316.2	2418.1	2323.0	2431.7	2716.9	2839.2	2832.4	2798.4
75°	638.5	672.4	760.7	964.5	1202.2	1419.6	1786.4	2058.1	2180.3	2255.1	2166.8
77.5°	373.6	394.0	448.3	550.2	624.9	767.5	971.3	1161.5	1324.5	1304.1	1317.7
80°	197.0	197.0	251.3	326.0	434.7	543.4	645.3	753.9	842.3	862.6	883.0
82.5°	115.5	122.3	163.0	237.7	312.4	387.2	495.8	570.6	652.1	658.9	672.4
85°	61.1	67.9	101.9	156.2	210.6	237.7	244.5	230.9	251.3	237.7	271.7
87.5°	20.4	20.4	34.0	27.2	27.2	34.0	40.8	40.8	54.3	54.3	54.3
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°	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5	10025.5
2.5°	10079.8	10079.8	9964.4	9747.0	9713.0	9624.7	9543.2	9536.4	9475.3	9421.0	9393.8
5°	10270.0	10059.5	9889.6	9692.7	9461.7	9353.1	9230.8	9094.9	9040.6	9094.9	9088.2
7.5°	10487.4	10310.8	9801.3	9434.6	9169.7	9061.0	8925.1	8782.5	8796.1	8796.1	8701.0
10°	10697.9	10460.2	9645.1	9176.5	8789.3	8707.8	8633.1	8687.4	8755.3	8768.9	8707.8
12.5°	11051.1	10514.5	9570.4	8918.3	8673.8	8497.2	8544.8	8694.2	8836.8	8796.1	8843.6
15°	11316.0	10562.1	9230.8	8653.4	8347.8	8429.3	8599.1	8701.0	8938.7	8911.5	8959.1
17.5°	11574.1	10589.3	8898.0	8300.2	8171.2	8395.3	8524.4	8816.5	8891.2	9054.2	9115.3
20°	12103.9	10643.6	8558.3	8082.9	8042.1	8300.2	8524.4	8660.2	8823.2	8965.9	8965.9
22.5°	12375.6	10616.4	8334.2	7797.6	7926.7	8089.7	8293.4	8524.4	8524.4	8660.2	8667.0
25°	12715.3	10507.7	7981.0	7661.8	7756.9	7913.1	8144.0	8062.5	8150.8	8150.8	8259.5
27.5°	13102.4	10276.8	7675.3	7417.2	7607.4	7777.2	7811.2	7756.9	7655.0	7641.4	7600.6
30°	13414.9	9991.5	7451.2	7335.7	7492.0	7587.0	7478.4	7362.9	7186.3	7172.7	7077.6
32.5°	13842.8	9638.3	7172.7	7132.0	7308.6	7315.3	7281.4	7104.8	6846.7	6738.0	6629.3
35°	14562.8	9434.6	6962.1	7023.3	7077.6	7057.2	6996.1	6805.9	6547.8	6500.3	6459.5
37.5°	15092.6	9285.1	6744.8	6819.5	6867.1	6894.2	6710.8	6500.3	6507.1	6412.0	6384.8
40°	15690.3	9190.0	6568.2	6602.2	6608.9	6697.2	6473.1	6371.2	6418.8	6357.6	6398.4
42.5°	16457.8	9217.2	6384.8	6357.6	6486.7	6452.7	6344.0	6208.2	6235.4	6052.0	6079.1
45°	16865.4	9400.6	6276.1	6153.9	6296.5	6289.7	6147.1	6018.0	5855.0	5501.8	5515.4
47.5°	17137.1	9448.1	6018.0	5936.5	6085.9	6174.2	6011.2	5712.4	5481.4	5230.1	5169.0
50°	17415.6	9536.4	5895.8	5725.9	5787.1	5997.6	5793.9	5508.6	5284.4	5060.3	5094.3
52.5°	17660.1	9706.3	5658.0	5406.7	5515.4	5746.3	5637.6	5291.2	5046.7	4863.3	4809.0
55°	18746.9	10086.6	5257.3	4931.2	5189.3	5481.4	5420.3	4999.2	4734.3	4639.2	4625.6
56°	18916.7	10100.2	5046.7	4768.2	5006.0	5393.1	5318.4	4870.1	4632.4	4482.9	4489.7
57.5°	18943.8	9937.2	4747.8	4618.8	4822.6	5264.1	5169.0	4768.2	4442.2	4306.3	4265.6
60°	16668.4	7756.9	4374.3	4292.8	4530.5	4870.1	4836.1	4489.7	4123.0	3966.7	4041.4
62.5°	11363.6	5685.2	4082.2	4068.6	4190.9	4523.7	4435.4	4123.0	3817.3	3715.4	3667.9
65°	6615.7	4313.1	3796.9	3742.6	3844.5	4021.1	4082.2	3756.2	3436.9	3369.0	3348.6
67.5°	3905.6	3566.0	3430.1	3341.8	3307.9	3416.5	3464.1	3273.9	2954.7	2859.6	2941.1
70°	3267.1	3172.0	3178.8	3029.4	2947.9	2873.2	2832.4	2662.6	2397.7	2275.4	2241.5
72.5°	2818.8	2778.1	2750.9	2615.1	2540.3	2370.5	2193.9	2024.1	1827.1	1725.3	1732.0
75°	2153.2	2139.6	2153.2	2085.2	1956.2	1820.3	1657.3	1440.0	1290.5	1161.5	1188.7
77.5°	1283.8	1324.5	1344.9	1317.7	1263.4	1141.1	1039.2	896.6	753.9	652.1	638.5
80°	883.0	917.0	950.9	917.0	862.6	774.3	665.6	557.0	455.1	400.7	387.2
82.5°	672.4	706.4	726.8	692.8	624.9	529.8	455.1	380.4	298.9	244.5	230.9
85°	244.5	278.5	271.7	326.0	353.2	339.6	292.1	224.1	169.8	122.3	115.5
87.5°	67.9	61.1	67.9	67.9	67.9	61.1	54.3	54.3	54.3	34.0	27.2
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)