

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: P534354

Luminaire Tested: **GALN-SA9D-750-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-750-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59793 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G4

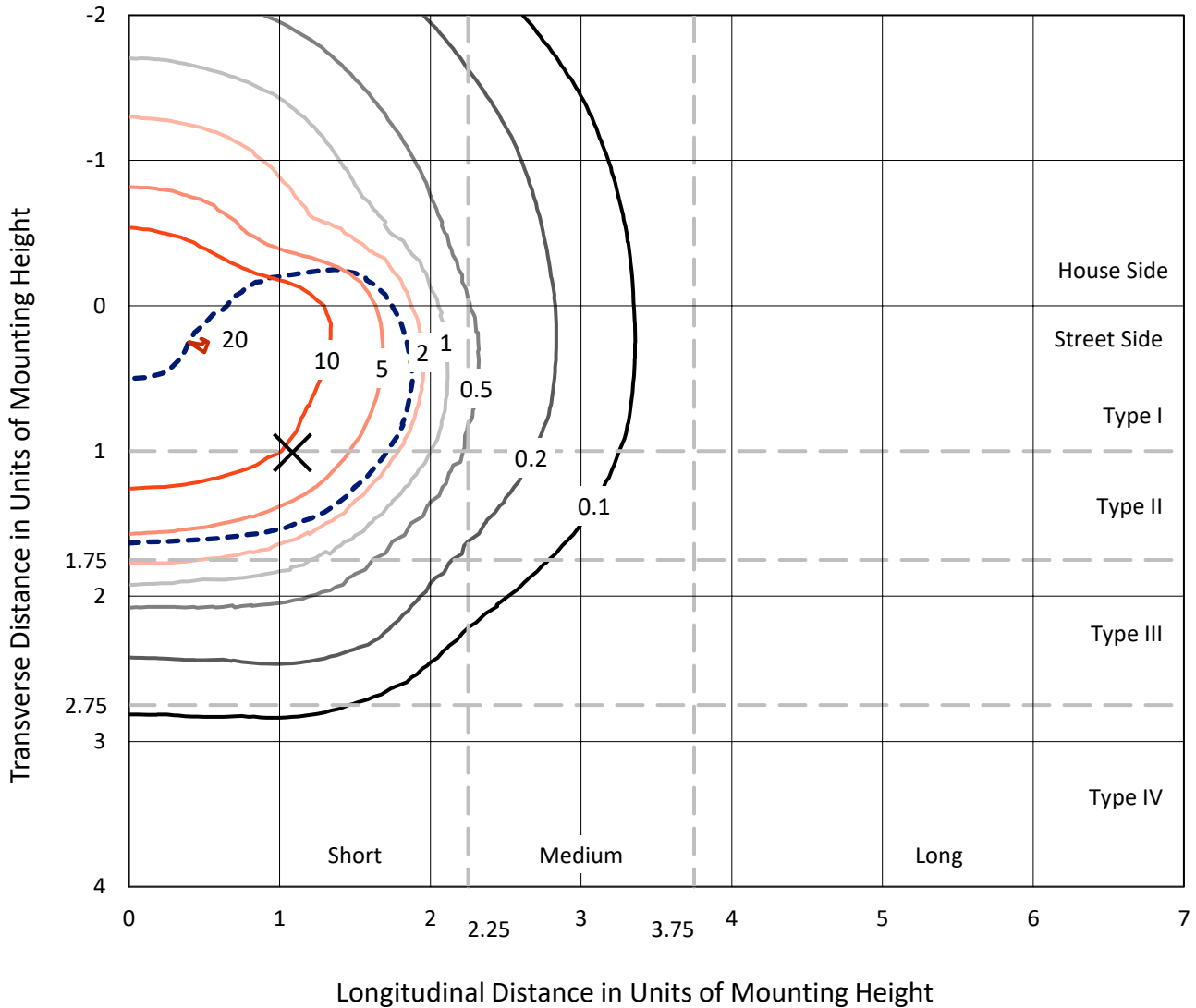
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

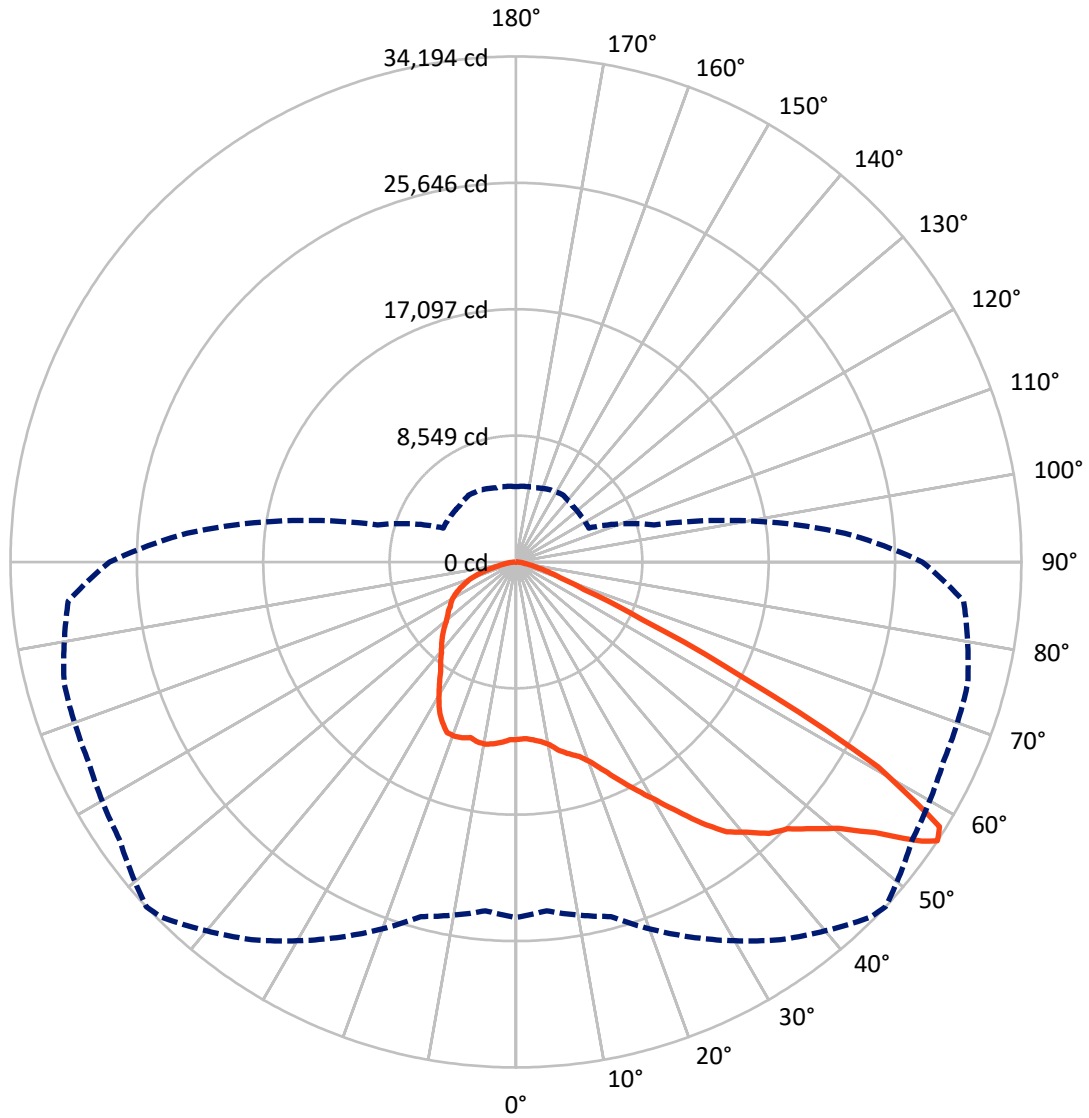
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18947.7	0.0	18947.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	40845.3	0.0	40845.3
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	59793.0	0.0	59793.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1170.3	2.0
10°-20°	3691.6	6.2
20°-30°	6525.9	10.9
30°-40°	9801.7	16.4
40°-50°	13451.8	22.5
50°-60°	16026.1	26.8
60°-70°	6858.2	11.5
70°-80°	1940.9	3.2
80°-90°	326.6	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°	59793.0	100.0
0°-180°	59793.0	100.0

**Coefficient of Utilization**



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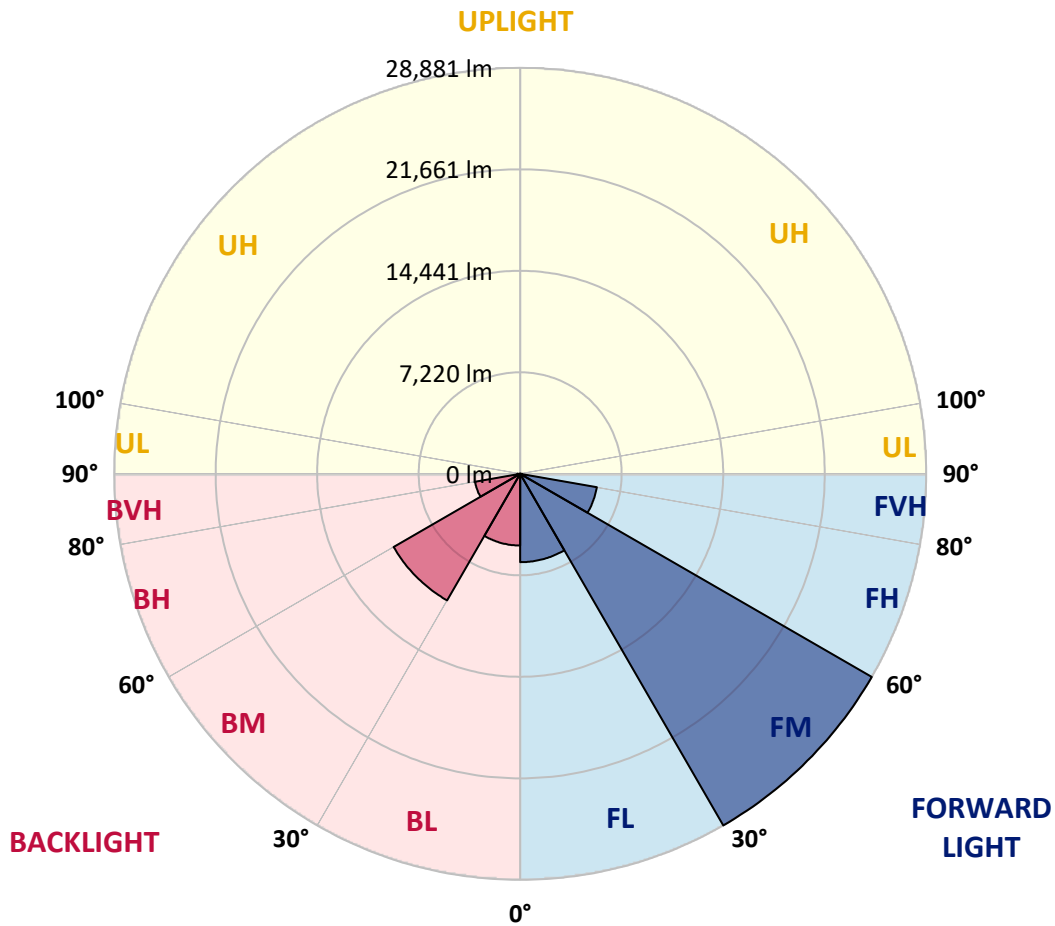
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6286.3	10.5			
FM (30°-60°)	28881.4	48.3			
FH (60°-80°)	5539.0	9.3			G3/7500
FVH (80°-90°)	138.6	0.2			G2/225
BL (0°-30°)	5101.5	8.5	B5		
BM (30°-60°)	10398.2	17.4	B5		
BH (60°-80°)	3260.0	5.5	B4/5000		G4/5000
BVH (80°-90°)	188.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6
2.5°	11964.8	11942.0	11926.7	12048.7	12003.0	12010.6	11964.8	12010.6	12041.1	11972.5	12071.6
5°	11942.0	12010.6	11949.6	11987.7	12086.9	12056.4	12086.9	12178.4	12155.5	12132.6	12102.1
7.5°	12155.5	12163.1	12208.9	12224.1	12254.6	12224.1	12269.9	12353.8	12330.9	12201.2	12216.5
10°	12460.5	12475.8	12483.4	12567.3	12620.7	12628.3	12574.9	12498.6	12491.0	12666.4	12544.4
12.5°	12811.3	12773.2	12864.7	12895.2	12956.2	13024.8	13093.5	12933.3	13032.5	13040.1	12895.2
15°	13322.2	13360.4	13253.6	13253.6	13276.5	13284.1	13474.7	13398.5	13383.2	13299.4	13360.4
17.5°	14084.8	13825.5	13817.9	13711.1	13695.9	13756.9	13825.5	13886.5	14092.4	13924.7	13596.8
20°	14641.5	14702.5	14481.3	14351.7	14374.6	14511.9	14443.2	14717.7	14862.6	14588.1	14267.8
22.5°	15625.2	15419.3	15472.7	15182.9	15205.8	15350.7	15343.1	15625.2	15709.1	15274.4	14809.3
25°	16288.7	16235.3	16281.0	16052.3	16082.8	16197.1	16380.2	16845.3	16708.1	16227.7	15152.4
27.5°	17257.1	17150.4	17112.2	17028.4	16997.9	17302.9	17516.4	18012.1	17912.9	17211.4	15762.5
30°	18248.5	18179.8	18218.0	17874.8	17996.8	18645.0	18706.0	19384.7	19339.0	18103.6	16441.2
32.5°	18934.8	18972.9	19041.6	18850.9	19392.3	19910.9	20116.8	20887.0	20925.1	19636.4	17752.8
35°	20040.5	19910.9	19949.0	20170.2	20421.8	21367.4	21703.0	22213.9	22534.2	21245.4	19011.1
37.5°	20734.5	20871.7	20711.6	21062.4	21718.2	22854.5	23159.5	23685.7	24021.2	22831.6	20726.9
40°	21817.3	21596.2	21710.6	21962.2	22633.3	24112.7	24028.8	24570.2	24677.0	24181.3	22328.3
42.5°	22984.1	22877.3	22717.2	23289.1	23853.4	24928.7	25096.4	24844.8	25386.2	25500.6	24616.0
45°	24379.6	24509.2	24532.1	24547.4	25043.0	25981.0	25752.2	25531.1	26156.4	26987.6	26034.4
47.5°	25676.0	25264.2	25561.6	25973.4	26675.0	26682.6	26949.5	26423.3	27086.8	27826.5	27315.5
50°	26110.7	25912.4	26308.9	27086.8	28169.6	28284.0	28314.5	27567.2	27910.3	28497.5	27757.8
52.5°	25942.9	25874.3	26888.5	28093.4	29679.5	30259.1	30411.6	29488.9	29679.5	29412.6	28733.9
55°	25142.2	25348.1	26369.9	28825.4	31258.1	33050.1	33339.9	32173.1	30960.7	31166.5	30419.2
56°	24044.1	23685.7	24829.5	27994.2	31189.4	33957.6	34194.0	32737.5	31913.9	31647.0	30404.0
57.5°	20399.0	19933.8	21436.1	25187.9	29458.4	33614.4	33789.8	32973.9	31753.7	31212.3	28184.9
60°	11942.0	12170.7	14077.2	17371.5	22724.8	27559.6	28146.7	28741.5	27925.6	25500.6	20978.5
62.5°	5765.1	5620.2	6985.2	9959.3	13848.4	17592.7	17417.3	19087.3	20002.4	18118.8	13246.0
65°	3019.8	3004.6	3812.9	5437.2	7610.5	9242.4	9402.6	10302.4	11560.7	9333.9	6725.9
67.5°	2219.1	2280.1	2684.3	3820.5	4895.7	4994.9	4972.0	5421.9	5543.9	4689.9	4133.2
70°	1738.7	1769.2	2066.6	2905.4	3645.1	3263.8	3195.2	3248.6	3607.0	3759.5	3576.5
72.5°	1258.3	1288.8	1540.4	1959.8	2280.1	2226.7	2272.5	2569.9	3012.2	3172.3	2981.7
75°	838.8	861.7	999.0	1197.2	1349.8	1456.5	1540.4	1883.6	2295.4	2386.9	2295.4
77.5°	579.6	602.4	693.9	846.5	861.7	930.3	960.8	1121.0	1372.6	1487.0	1426.0
80°	327.9	327.9	373.7	434.7	533.8	625.3	640.6	770.2	884.6	960.8	976.1
82.5°	152.5	160.1	198.3	266.9	350.8	434.7	449.9	533.8	617.7	693.9	716.8
85°	76.3	83.9	114.4	160.1	213.5	259.3	251.7	259.3	274.5	259.3	266.9
87.5°	22.9	22.9	30.5	38.1	30.5	38.1	38.1	45.8	53.4	61.0	68.6
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°	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6	12010.6
2.5°	12079.2	12102.1	11949.6	12094.5	12041.1	12033.5	12140.2	12125.0	12163.1	12147.9	12056.4
5°	12086.9	12033.5	12193.6	12048.7	12117.4	12262.2	12163.1	12391.9	12277.5	12353.8	12186.0
7.5°	12323.3	12338.5	12308.0	12369.0	12338.5	12407.1	12353.8	12407.1	12315.6	12323.3	12475.8
10°	12529.1	12483.4	12536.8	12460.5	12513.9	12491.0	12369.0	12330.9	12361.4	12323.3	12422.4
12.5°	12910.4	12826.6	12788.4	12696.9	12635.9	12407.1	12216.5	12109.7	12254.6	12277.5	12231.7
15°	13299.4	13307.0	13131.6	12925.7	12544.4	12201.2	12247.0	12285.1	12285.1	12346.1	12231.7
17.5°	13543.4	13543.4	13383.2	12971.4	12582.5	12384.3	12338.5	12216.5	12109.7	12094.5	12086.9
20°	13970.4	13840.8	13474.7	12963.8	12567.3	12475.8	12132.6	11842.8	11621.7	11545.4	11537.8
22.5°	14458.5	14130.6	13619.6	12979.1	12544.4	12414.8	11774.2	11339.5	10943.0	10775.2	10798.1
25°	14908.4	14382.2	13703.5	12910.4	12460.5	11835.2	11118.4	10515.9	10104.2	9966.9	9898.3
27.5°	15221.0	14649.1	13703.5	12971.4	12147.9	11187.0	10454.9	9684.7	9326.3	9234.8	9250.1
30°	15640.5	14984.6	13939.9	12841.8	11522.5	10348.2	9471.2	8967.9	8754.4	8678.1	8731.5
32.5°	16624.2	15861.6	14267.8	12529.1	10782.8	9509.3	8800.1	8518.0	8205.3	8052.8	7999.4
35°	17691.8	16692.8	14588.1	12003.0	9951.6	8746.8	8304.5	8045.2	7671.5	7503.8	7534.3
37.5°	19201.7	17760.4	14611.0	11133.6	9051.8	8319.7	7915.6	7511.4	7206.4	6947.1	6870.8
40°	21237.8	19217.0	14557.6	10218.5	8327.3	7816.4	7519.0	7015.7	6672.6	6489.5	6527.7
42.5°	23029.8	20925.1	14336.5	9181.4	7671.5	7473.3	7137.7	6642.1	6306.5	6115.9	6100.6
45°	24539.7	22183.4	13917.0	8296.8	7122.5	7092.0	6703.1	6321.8	6054.9	5879.5	5955.7
47.5°	25935.3	23197.6	13284.1	7412.3	6619.2	6680.2	6306.5	6070.1	5902.4	5742.2	5734.6
50°	26438.6	23182.4	12727.4	6680.2	6215.0	6184.5	6169.3	5917.6	5742.2	5604.9	5666.0
52.5°	27277.4	23441.6	12125.0	6176.9	5849.0	5856.6	5910.0	5727.0	5528.7	5444.8	5521.1
55°	28482.3	23479.8	10798.1	5589.7	5543.9	5597.3	5597.3	5475.3	5307.5	5238.9	5200.8
56°	27498.5	22343.5	9684.7	5437.2	5391.4	5391.4	5536.3	5399.0	5193.2	5139.8	5094.0
57.5°	25363.3	19575.4	8106.2	5254.2	5185.5	5292.3	5368.5	5223.7	5033.0	4956.8	5002.5
60°	17493.5	13246.0	6093.0	4857.6	4857.6	5033.0	5094.0	4880.5	4796.6	4789.0	4728.0
62.5°	10210.9	7717.3	4766.1	4499.2	4514.5	4659.3	4705.1	4583.1	4476.3	4606.0	4667.0
65°	5414.3	4606.0	4087.4	4117.9	4125.5	4239.9	4438.2	4430.6	4423.0	4461.1	4468.7
67.5°	3919.6	3828.1	3713.8	3683.2	3698.5	3782.4	3980.7	4133.2	4125.5	4034.0	3965.4
70°	3492.6	3363.0	3294.3	3302.0	3241.0	3340.1	3500.2	3599.4	3424.0	3317.2	3271.5
72.5°	2905.4	2867.3	2821.5	2829.2	2707.2	2684.3	2501.3	2501.3	2455.5	2425.0	2478.4
75°	2219.1	2203.8	2226.7	2188.6	2059.0	1921.7	1814.9	1715.8	1563.3	1502.3	1471.8
77.5°	1403.1	1448.9	1502.3	1418.4	1365.0	1265.9	1159.1	1060.0	938.0	869.3	869.3
80°	953.2	991.4	1029.5	1014.2	953.2	861.7	777.8	671.1	587.2	533.8	526.2
82.5°	724.4	755.0	808.3	747.3	686.3	610.1	541.4	465.2	388.9	327.9	327.9
85°	259.3	297.4	327.9	358.4	381.3	388.9	335.5	274.5	221.1	175.4	167.8
87.5°	68.6	76.3	83.9	76.3	76.3	76.3	83.9	76.3	68.6	53.4	53.4
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)