

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: P534240

Luminaire Tested: **GALN-SA9D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49619 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

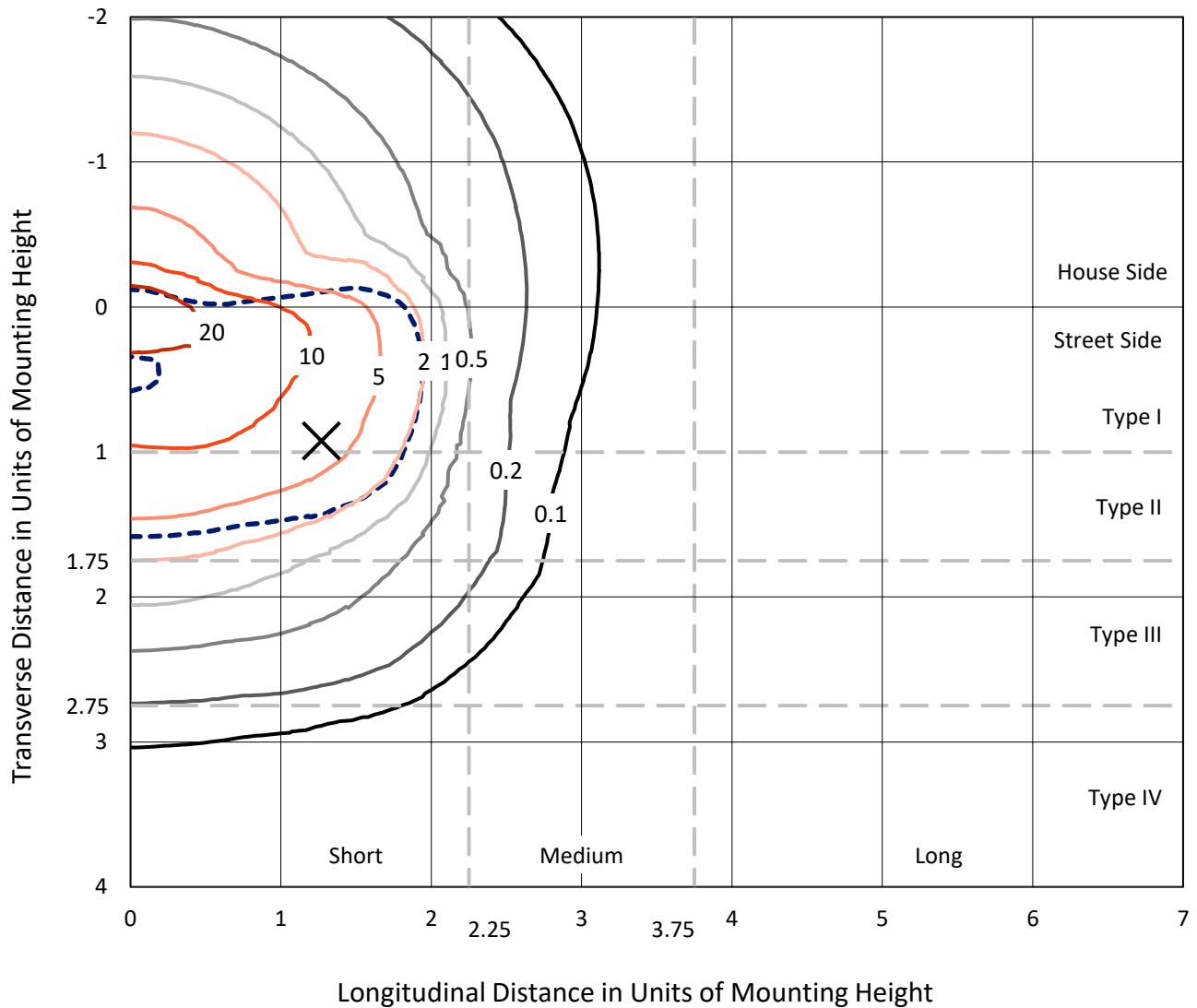
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

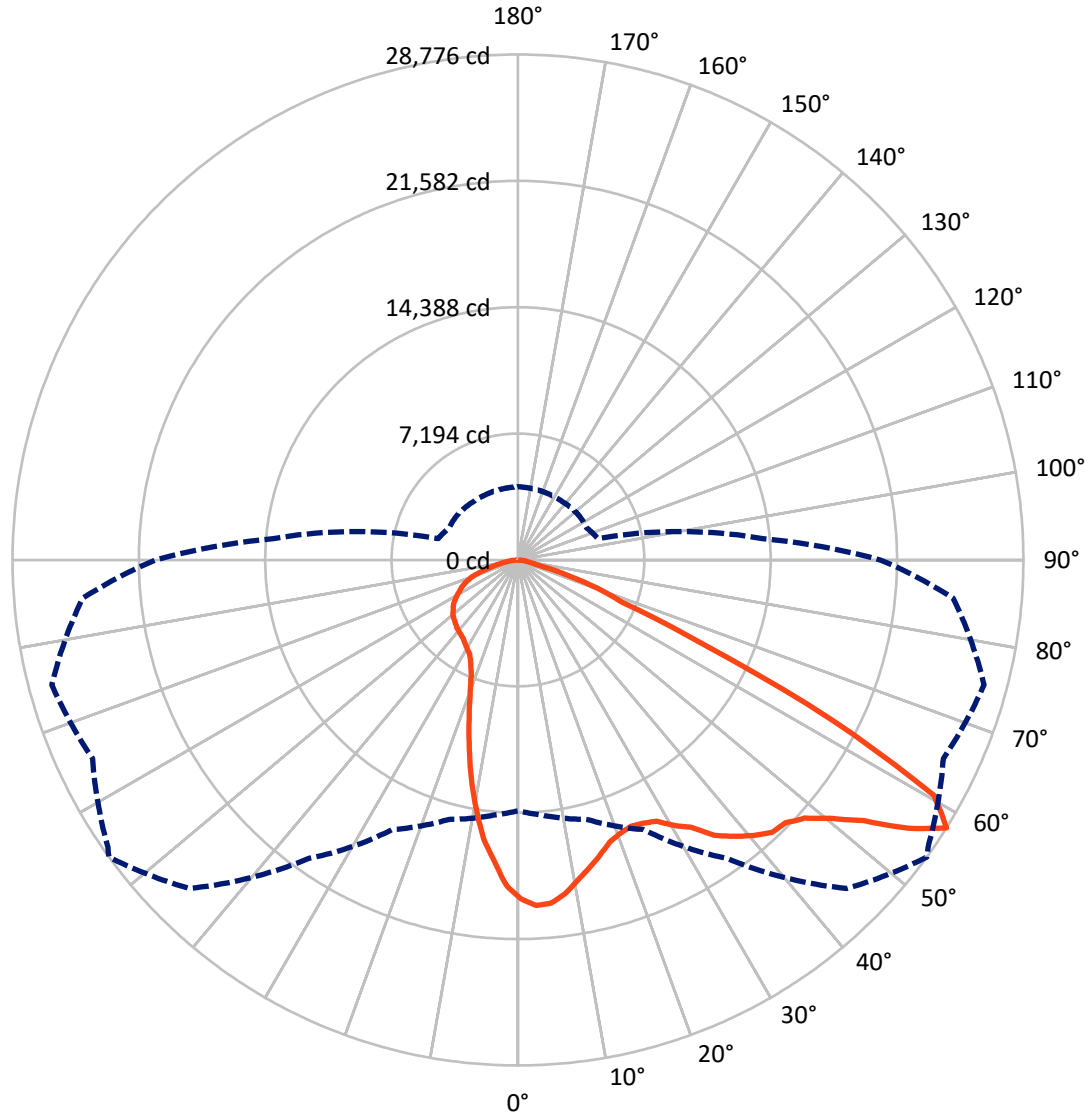
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13727.4	0.0	13727.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	35891.6	0.0	35891.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	49619.0	0.0	49619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1663.3	3.4
10°-20°	3851.0	7.8
20°-30°	5410.8	10.9
30°-40°	7564.3	15.2
40°-50°	10240.6	20.6
50°-60°	12473.5	25.1
60°-70°	6496.8	13.1
70°-80°	1664.7	3.4
80°-90°	253.9	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°	49619.0	100.0
0°-180°	49619.0	100.0

**Coefficient of Utilization**



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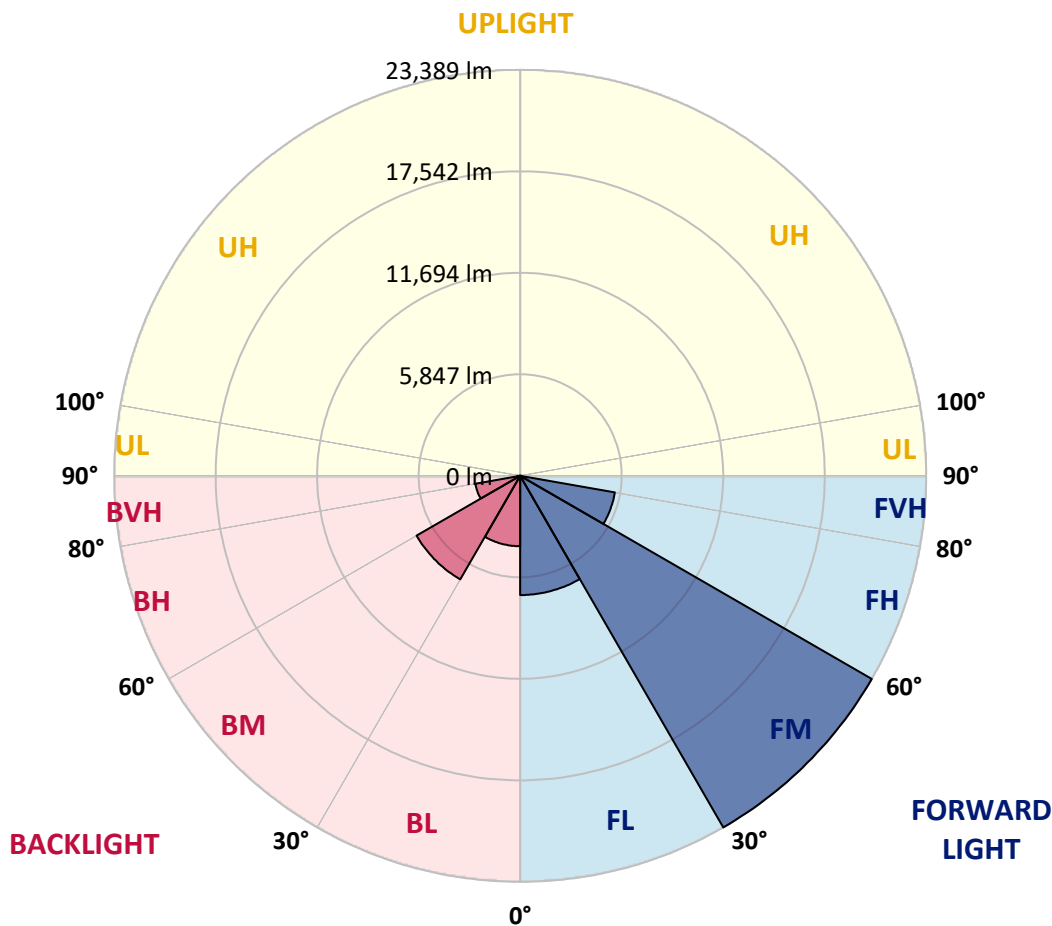
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6867.9	13.8			
FM (30°-60°)	23388.9	47.1			
FH (60°-80°)	5538.9	11.2			G3/7500
FVH (80°-90°)	96.0	0.2			G1/100
BL (0°-30°)	4057.1	8.2	B4/5000		
BM (30°-60°)	6889.6	13.9	B4/8500		
BH (60°-80°)	2622.6	5.3	B4/5000		G4/5000
BVH (80°-90°)	158.0	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3
2.5°	19834.8	19758.3	19771.0	19873.1	19745.5	19694.5	19694.5	19445.8	19464.9	19292.7	19248.1
5°	19375.6	19197.0	19318.2	19471.3	19496.8	19547.8	19630.7	19567.0	19388.4	19203.4	18903.7
7.5°	18176.6	18336.1	18380.7	18489.1	18718.7	18929.2	19190.7	19012.1	19005.7	18820.8	18642.2
10°	17124.3	17028.6	17271.0	17430.4	17813.1	18163.9	18565.7	18546.5	18642.2	18431.7	18125.6
12.5°	16078.3	16001.8	16116.6	16480.1	17015.9	17526.1	18004.4	17825.8	18336.1	18297.8	17640.9
15°	14968.6	15026.0	15191.8	15529.8	16231.4	16843.7	17449.5	17455.9	17908.7	18061.8	17181.7
17.5°	14190.5	14126.7	14337.2	14841.0	15466.1	16199.5	16888.3	17028.6	17723.8	17813.1	17041.4
20°	13610.1	13699.4	13973.7	14228.8	14949.5	15836.0	16614.1	16665.1	17685.5	17927.9	16818.1
22.5°	13469.8	13418.8	13508.1	13922.6	14515.8	15478.8	16467.4	16658.7	17679.1	17889.6	16397.2
25°	13323.1	13489.0	13482.6	13897.1	14330.8	15191.8	16588.5	16799.0	18017.2	18087.3	16454.6
27.5°	13654.8	13635.6	13814.2	13846.1	14381.8	15268.4	16843.7	17003.1	18578.4	18521.0	16499.3
30°	13986.4	13890.8	13999.2	14375.5	14624.2	15708.4	17545.2	17532.5	19305.5	19267.2	16639.6
32.5°	14394.6	14350.0	14420.1	14751.8	15172.7	16295.2	18138.3	18514.6	20045.3	20287.6	17124.3
35°	14471.1	14656.1	14821.9	15268.4	15867.9	17245.5	19254.4	19567.0	20899.9	21658.9	18049.1
37.5°	14955.8	15026.0	15415.0	16205.9	16754.4	18514.6	19962.4	20160.1	21678.0	22539.0	19024.8
40°	15472.4	15555.3	16142.1	16971.2	17723.8	19343.7	20625.7	20689.4	21926.7	23215.0	19662.6
42.5°	16174.0	16250.5	16830.9	17870.5	18878.2	20051.7	21212.4	21282.6	21907.6	23993.1	20676.7
45°	16901.1	17086.0	17768.4	18948.3	19854.0	20880.8	21346.4	21633.4	22086.2	24688.3	21499.4
47.5°	17921.5	18093.7	18654.9	19809.3	20868.0	21607.8	21965.0	22245.6	22513.5	25294.2	22028.8
50°	19005.7	19037.6	19720.0	20766.0	21544.1	22430.6	23119.4	23215.0	23074.7	25995.7	22928.0
52.5°	19802.9	19905.0	20434.3	21454.8	22615.5	23706.1	24650.0	24752.1	24477.8	26257.2	23234.2
55°	18482.7	18425.3	19286.3	20644.8	23336.2	25606.7	26977.9	27054.4	25498.3	27067.2	24235.5
57.5°	14286.2	14560.4	15293.9	16932.9	20734.1	26448.6	28776.4	28502.2	26722.8	27475.4	24873.3
60°	10383.0	10319.2	10810.3	11907.3	15625.5	22794.1	27207.5	27488.1	25721.5	24764.8	20510.9
62.5°	8456.9	8367.6	8405.9	8444.2	10083.2	15128.0	20141.0	20134.6	19809.3	17800.3	13833.4
65°	6760.4	6970.9	6990.0	7277.0	7487.5	9037.3	11671.3	12296.3	10708.3	8782.2	6371.4
67.5°	5095.8	5019.3	5274.4	6294.8	6690.3	6524.4	6371.4	6441.5	4579.2	3303.7	3112.3
70°	3003.9	2972.0	3278.2	4387.9	5510.4	5185.1	4802.5	4808.8	3144.2	2308.7	2570.2
72.5°	1645.5	1639.1	1702.9	2225.8	3131.5	3252.7	2882.7	2972.0	1875.1	1868.7	2009.0
75°	918.4	899.3	880.1	982.2	1128.9	1192.6	1218.2	1230.9	1288.3	1441.4	1498.8
77.5°	338.0	325.3	325.3	376.3	478.3	599.5	759.0	771.7	912.0	1046.0	1103.4
80°	114.8	127.6	172.2	236.0	318.9	427.3	516.6	529.4	644.2	733.4	752.6
82.5°	70.2	76.5	114.8	165.8	229.6	299.8	382.7	389.0	478.3	535.7	561.2
85°	31.9	38.3	63.8	102.0	146.7	197.7	204.1	204.1	197.7	204.1	191.3
87.5°	0.0	0.0	12.8	12.8	12.8	19.1	25.5	19.1	31.9	38.3	38.3
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°	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3	19286.3
2.5°	19114.1	19044.0	18827.1	18635.8	18578.4	18323.3	17947.0	17991.7	17717.4	17845.0	17711.0
5°	18852.6	18616.7	18061.8	17825.8	17207.2	16926.6	16735.2	16256.9	16033.7	15989.0	15797.7
7.5°	18183.0	18036.3	17341.1	16703.3	16046.4	15485.2	14764.5	14273.4	13922.6	13827.0	13546.4
10°	17653.6	17328.4	16365.3	15395.9	14458.4	13482.6	12545.0	11811.6	11454.5	11039.9	10899.6
12.5°	17130.7	16639.6	15338.5	14094.8	12883.1	11652.2	10516.9	9624.0	8845.9	8661.0	8597.2
15°	16805.4	15950.8	14420.1	12921.3	11199.3	9592.1	8456.9	7870.2	7391.8	7194.1	7334.4
17.5°	16378.1	15383.1	13540.0	11543.7	9649.5	8169.9	7219.6	6856.1	6683.9	6703.0	6645.6
20°	15842.3	14847.4	12385.6	10293.7	8265.6	7085.7	6543.6	6409.6	6435.2	6479.8	6460.7
22.5°	15459.7	14196.9	11550.1	9018.1	7143.1	6486.2	6263.0	6167.3	6250.2	6288.5	6256.6
25°	15166.3	13642.0	10536.1	7889.3	6492.6	6148.2	6046.1	6039.7	6167.3	6218.3	6186.4
27.5°	14898.4	13125.4	9528.4	7028.3	6058.9	5886.7	5854.8	5931.3	6014.2	6065.2	6109.9
30°	14739.0	12730.0	8584.5	6307.6	5842.0	5759.1	5701.7	5771.9	5816.5	5867.5	5842.0
32.5°	14892.1	12449.4	7672.4	5899.4	5663.4	5580.5	5657.1	5612.4	5689.0	5733.6	5663.4
35°	15370.4	12200.6	7021.9	5682.6	5459.4	5491.2	5504.0	5484.9	5516.8	5478.5	5561.4
37.5°	15842.3	12111.4	6422.4	5497.6	5363.7	5363.7	5350.9	5312.7	5376.4	5363.7	5402.0
40°	16441.9	12168.8	5912.2	5299.9	5274.4	5261.6	5210.6	5204.2	5178.7	5185.1	5197.9
42.5°	16964.8	12296.3	5618.8	5172.4	5191.5	5217.0	5121.3	5044.8	5076.7	5012.9	5012.9
45°	17519.7	12411.1	5357.3	5083.1	5063.9	5057.6	4981.0	4936.4	4910.9	4917.3	4974.7
47.5°	18393.5	12576.9	5159.6	4961.9	4974.7	4879.0	4859.9	4802.5	4828.0	4866.2	4872.6
50°	19012.1	12927.7	5006.5	4821.6	4866.2	4802.5	4687.7	4662.1	4662.1	4725.9	4713.2
52.5°	19445.8	13418.8	4859.9	4668.5	4687.7	4636.6	4598.4	4541.0	4502.7	4592.0	4636.6
55°	20772.4	14235.2	4821.6	4541.0	4534.6	4483.6	4413.4	4356.0	4336.9	4349.6	4438.9
57.5°	20644.8	13980.0	4700.4	4317.7	4305.0	4234.8	4164.7	4145.5	4139.2	4151.9	4177.4
60°	16760.7	10325.6	4196.6	4062.6	4043.5	4030.7	3960.6	3884.1	3845.8	3884.1	3852.2
62.5°	11090.9	6913.5	3699.1	3756.5	3769.3	3737.4	3622.6	3546.0	3558.8	3603.4	3533.3
65°	5446.6	4062.6	3354.7	3507.8	3520.5	3431.2	3322.8	3233.5	3188.9	3227.1	3195.3
67.5°	3112.3	3106.0	3074.1	3233.5	3227.1	3137.9	2965.7	2889.1	2812.6	2825.3	2806.2
70°	2640.4	2691.4	2755.2	2850.9	2844.5	2742.4	2538.3	2480.9	2372.5	2359.8	2327.9
72.5°	2079.1	2168.4	2308.7	2378.9	2321.5	2193.9	2060.0	1964.3	1868.7	1811.3	1830.4
75°	1543.4	1671.0	1747.5	1792.1	1702.9	1632.7	1524.3	1409.5	1294.7	1243.7	1224.5
77.5°	1122.5	1160.8	1230.9	1262.8	1205.4	1135.2	1071.5	956.7	848.2	778.1	759.0
80°	784.5	810.0	861.0	861.0	861.0	829.1	746.2	631.4	561.2	497.5	484.7
82.5°	548.5	574.0	625.0	599.5	593.1	554.9	503.8	414.6	338.0	293.4	280.6
85°	191.3	210.5	255.1	306.1	325.3	318.9	287.0	229.6	178.6	146.7	133.9
87.5°	44.6	44.6	51.0	44.6	44.6	51.0	44.6	44.6	44.6	31.9	25.5
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)