

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: P533602

Luminaire Tested: **GALN-SA9A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33713 lumens  
Efficiency: N/A  
Efficacy: 123.0 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

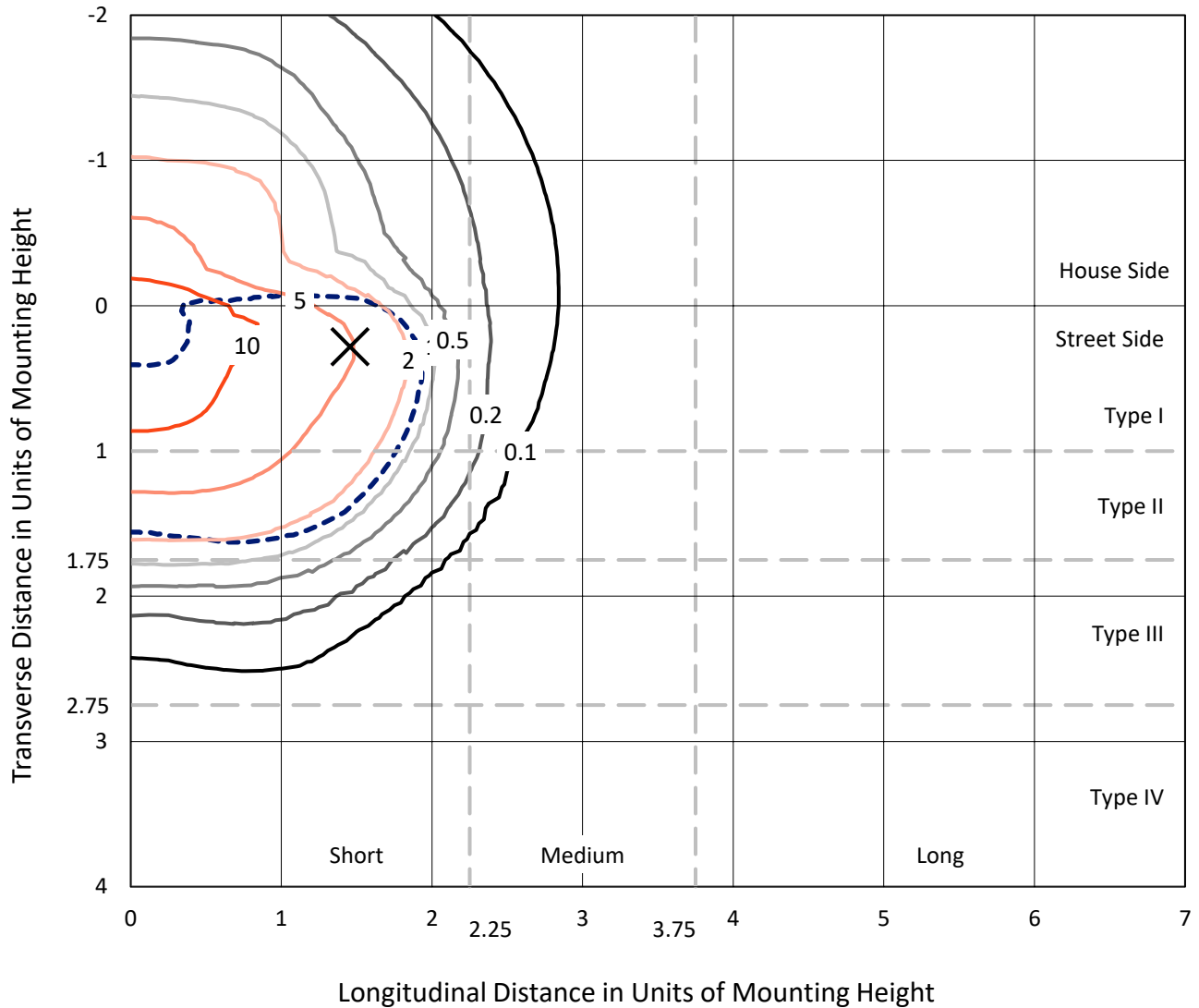
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

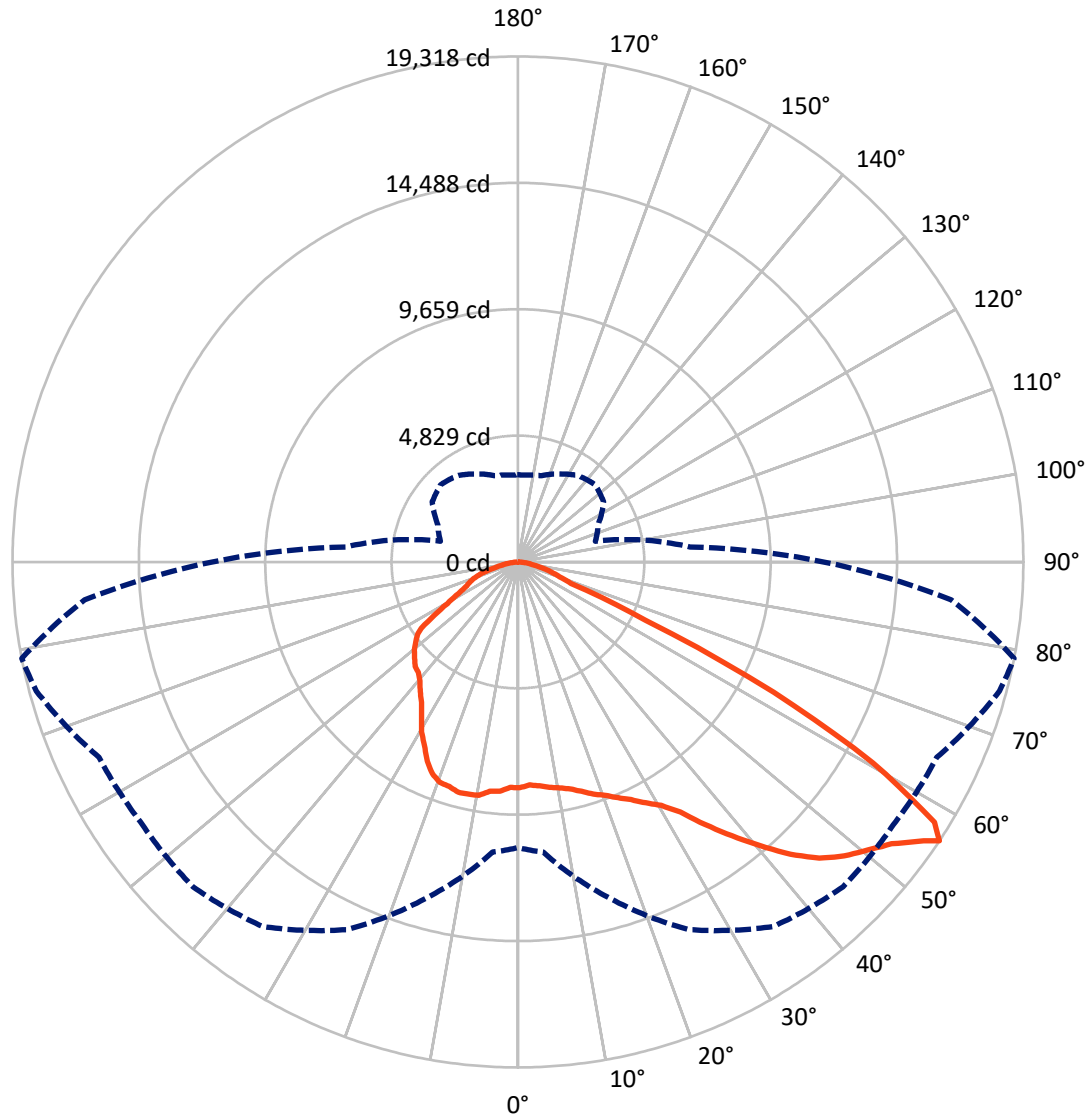
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9956.2	0.0	9956.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	23756.8	0.0	23756.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	33713.0	0.0	33713.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	784.2	2.3
10°-20°	2146.3	6.4
20°-30°	3671.9	10.9
30°-40°	5627.6	16.7
40°-50°	7605.7	22.6
50°-60°	8735.4	25.9
60°-70°	3981.8	11.8
70°-80°	981.7	2.9
80°-90°	178.4	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°	33713.0	100.0
0°-180°	33713.0	100.0

**Coefficient of Utilization**



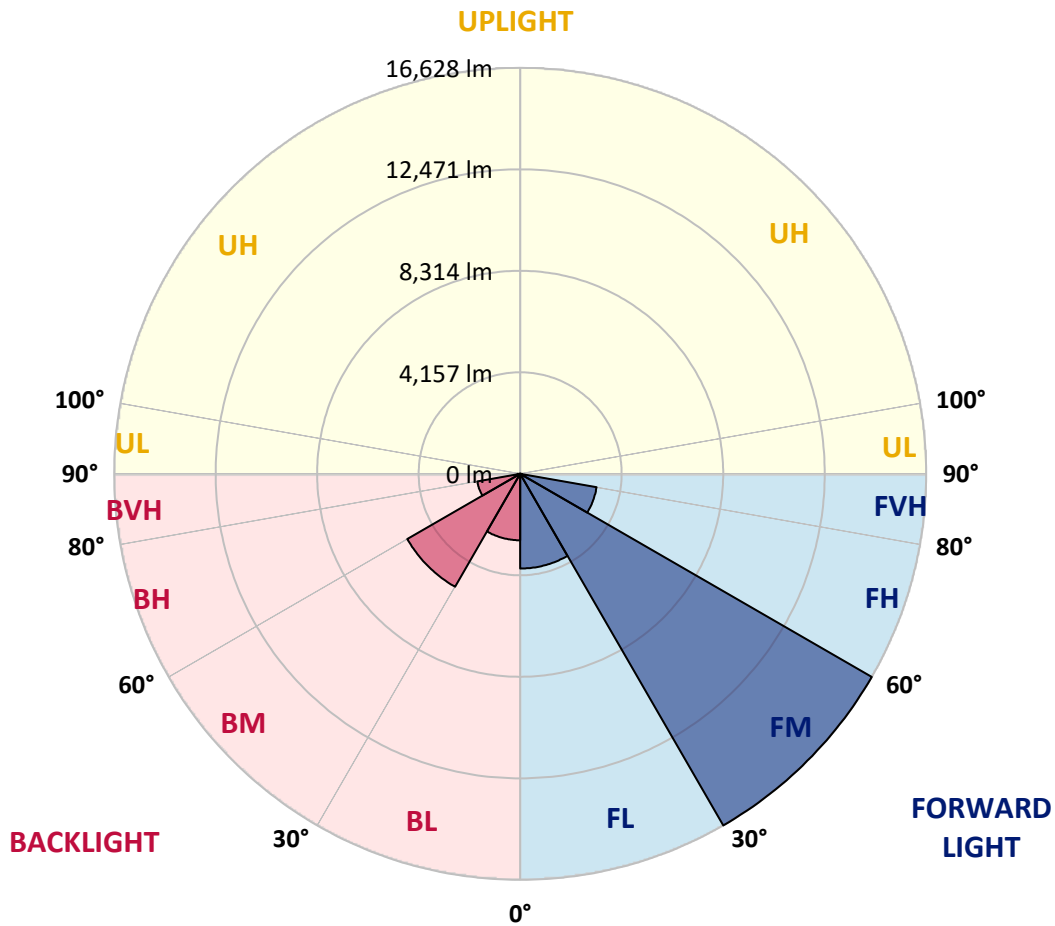
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3879.0	11.5			
FM (30°-60°)	16628.2	49.3			
FH (60°-80°)	3178.4	9.4			G2/5000
FVH (80°-90°)	71.2	0.2			G1/100
BL (0°-30°)	2723.4	8.1	B4/5000		
BM (30°-60°)	5340.4	15.8	B4/8500		
BH (60°-80°)	1785.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.2	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°	55°	65°	75°	79°	85°
0°	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8
2.5°	8205.9	8184.9	8235.3	8273.1	8319.3	8378.0	8407.4	8424.2	8571.2	8533.4	8646.8
5°	8029.5	7974.9	8012.7	8042.1	8121.9	8193.3	8273.1	8399.0	8533.4	8592.2	8730.8
7.5°	7874.1	7844.7	7836.3	7857.3	7966.5	8058.9	8197.5	8382.2	8600.6	8697.2	8777.0
10°	7617.9	7575.9	7638.9	7777.5	7806.9	8000.1	8159.7	8424.2	8613.2	8781.2	9016.4
12.5°	7504.5	7462.6	7475.2	7554.9	7760.7	7945.5	8134.5	8432.6	8831.6	8898.8	9213.8
15°	7685.1	7643.1	7655.7	7634.7	7832.1	7928.7	8226.9	8600.6	8982.8	9096.2	9432.1
17.5°	8096.7	8100.9	8046.3	8000.1	7953.9	8159.7	8365.5	8701.4	9041.6	9327.1	9579.1
20°	8882.0	8743.4	8634.2	8373.9	8302.5	8390.6	8651.0	8974.4	9280.9	9516.1	9801.7
22.5°	9486.7	9499.3	9343.9	8915.6	8760.2	8798.0	9020.6	9285.1	9621.1	9789.1	10116.7
25°	10364.4	10276.2	10108.3	9768.1	9419.5	9448.9	9612.7	9852.1	9944.5	10062.1	10419.0
27.5°	11166.5	11191.7	10860.0	10540.8	10108.3	10024.3	10318.2	10360.2	10204.8	10427.4	10549.2
30°	11981.2	11960.2	11741.9	11368.1	10944.0	10960.8	11090.9	10885.2	10671.0	10792.8	10876.8
32.5°	12825.3	12586.0	12577.6	12241.6	11918.2	11762.9	11603.3	11704.1	11372.3	11397.5	11317.7
35°	13501.5	13535.1	13341.9	13102.5	12942.9	12670.0	12233.2	12413.8	12350.8	12321.4	11977.0
37.5°	13992.8	13862.6	13959.2	13879.4	13728.2	13388.1	12934.5	13106.7	13136.1	13278.9	12879.9
40°	14396.0	14341.4	14597.5	14639.5	14534.6	13799.6	12984.9	13497.3	13938.2	14249.0	13774.4
42.5°	14589.1	14706.7	14975.5	15298.9	15063.7	14278.4	13245.3	13795.4	14778.1	15269.5	14622.7
45°	14849.5	14698.3	15097.3	15689.4	15693.6	14681.5	13497.3	14198.6	15433.2	16147.2	15202.3
47.5°	14584.9	14660.5	15072.1	15823.8	16017.0	15105.7	14177.6	14769.7	16155.6	16789.7	15739.8
50°	13992.8	14144.0	14895.7	15676.8	16260.6	15555.0	14958.7	15387.1	16823.3	17306.2	15828.0
52.5°	13375.5	13459.5	14635.3	15790.2	16369.7	16134.6	16004.4	16239.6	17638.0	17890.0	15937.2
55°	11695.7	12094.6	13774.4	15739.8	16903.1	17180.3	17079.5	17423.8	18561.9	18813.9	16533.5
56°	10918.8	11128.7	13257.9	15504.6	17008.1	17562.4	17512.0	17667.4	19053.2	19317.8	16625.9
57.5°	9482.5	9499.3	11305.1	14463.2	16613.3	17675.8	17625.4	17747.2	18956.6	18776.1	15815.4
60°	5933.9	6194.3	7693.5	11124.5	14127.2	16399.1	16684.7	15706.2	15983.4	15601.2	12304.6
62.5°	3074.1	3036.3	4031.5	6505.1	9377.5	11741.9	12006.4	11960.2	11531.9	10973.4	8037.9
65°	1532.8	1541.2	2108.2	3221.0	4804.3	6148.1	6887.2	6967.0	5828.9	5362.8	3813.2
67.5°	1112.9	1154.9	1516.0	1969.6	2263.5	2532.3	3103.4	3044.7	2305.5	2192.2	2032.6
70°	865.1	902.9	1230.5	1503.4	1364.8	1364.8	1486.6	1537.0	1642.0	1688.2	1742.8
72.5°	629.9	659.3	940.7	1037.3	894.5	961.7	1112.9	1230.5	1339.6	1356.4	1419.4
75°	432.6	457.7	617.3	571.1	537.5	663.5	814.7	923.9	1003.7	1045.7	1083.5
77.5°	281.4	289.8	352.8	298.2	344.4	428.4	529.1	621.5	701.3	734.9	743.3
80°	126.0	138.6	151.2	189.0	239.4	306.6	378.0	453.5	503.9	516.5	541.7
82.5°	71.4	71.4	92.4	134.4	176.4	222.6	273.0	327.6	386.4	399.0	394.8
85°	37.8	37.8	54.6	79.8	109.2	130.2	126.0	130.2	138.6	159.6	155.4
87.5°	12.6	12.6	16.8	16.8	21.0	25.2	21.0	29.4	37.8	37.8	37.8
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°	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8	8625.8
2.5°	8613.2	8651.0	8600.6	8709.8	8709.8	8688.8	8583.8	8617.4	8642.6	8642.6	8663.6
5°	8777.0	8764.4	8798.0	8667.8	8588.0	8558.6	8386.4	8302.5	8231.1	8226.9	8163.9
7.5°	8869.4	8835.8	8823.2	8726.6	8373.9	8159.7	7790.1	7575.9	7529.7	7366.0	7429.0
10°	9016.4	9079.4	9016.4	8491.4	8000.1	7508.7	7147.6	6815.8	6685.6	6580.7	6517.7
12.5°	9318.7	9289.3	8924.0	8214.3	7525.5	6941.8	6404.3	6055.7	5925.5	5833.1	5824.7
15°	9574.9	9427.9	8869.4	7777.5	6786.4	6164.9	5724.0	5476.2	5417.4	5425.8	5463.6
17.5°	9663.1	9562.3	8583.8	7324.0	6236.3	5505.6	5299.8	5262.0	5316.6	5379.6	5396.4
20°	9801.7	9642.1	8466.2	6706.6	5556.0	5094.0	5081.4	5215.8	5316.6	5409.0	5421.6
22.5°	10091.5	9688.3	8084.1	6122.9	5089.8	4972.2	5094.0	5207.4	5362.8	5438.4	5371.2
25°	10175.4	9587.5	7546.5	5421.6	4795.9	4896.6	5026.8	5182.2	5291.4	5333.4	5362.8
27.5°	10246.8	9432.1	6820.0	4955.4	4703.5	4892.4	5026.8	5157.0	5215.8	5253.6	5287.2
30°	10448.4	9385.9	6190.1	4644.7	4644.7	4808.5	4980.6	5014.2	5094.0	5140.2	5199.0
32.5°	10549.2	9066.8	5543.4	4447.3	4585.9	4850.4	4863.0	4926.0	4930.2	4968.0	4905.0
35°	10813.8	8840.0	4942.8	4304.5	4611.1	4808.5	4871.4	4833.7	4627.9	4527.1	4548.1
37.5°	11007.0	8726.6	4510.3	4287.7	4615.3	4854.6	4888.2	4602.7	4388.5	4220.5	4262.5
40°	11527.7	8445.2	4182.7	4258.3	4653.1	4905.0	4812.7	4501.9	4115.5	3943.4	3914.0
42.5°	11926.6	8243.7	3976.9	4224.7	4682.5	4976.4	4774.9	4300.3	3905.6	3746.0	3788.0
45°	12388.6	8197.5	3867.8	4233.1	4732.9	5014.2	4728.7	4144.9	3725.0	3662.0	3649.4
47.5°	12552.4	7865.7	3750.2	4161.7	4720.3	5001.6	4573.3	4027.3	3657.8	3666.2	3699.8
50°	12279.4	7525.5	3662.0	4014.7	4636.3	4888.2	4329.7	3872.0	3620.0	3725.0	3783.8
52.5°	11930.8	7177.0	3481.4	3817.4	4464.1	4711.9	4216.3	3863.6	3582.2	3548.6	3561.2
55°	12035.8	6891.4	3229.4	3548.6	4186.9	4384.3	4090.3	3783.8	3489.8	3363.8	3405.8
56°	11695.7	6597.5	3065.7	3380.6	3997.9	4174.3	4027.3	3712.4	3414.2	3330.2	3330.2
57.5°	10734.0	5610.6	2851.5	3111.8	3599.0	3809.0	3905.6	3670.4	3330.2	3183.2	3187.4
60°	7916.1	3989.5	2557.5	2742.3	2981.7	3149.6	3599.0	3552.8	3120.2	3019.5	2981.7
62.5°	4879.8	2914.5	2347.5	2418.9	2540.7	2679.3	3141.2	3216.8	2897.7	2788.5	2763.3
65°	2733.9	2229.9	2188.0	2217.3	2276.1	2347.5	2607.9	2775.9	2557.5	2389.5	2381.1
67.5°	1999.0	1994.8	2028.4	2053.6	2078.8	2078.8	2141.8	2208.9	2179.6	2045.2	2032.6
70°	1776.4	1789.0	1814.2	1818.4	1826.8	1797.4	1747.0	1726.0	1759.6	1675.6	1658.8
72.5°	1465.6	1507.6	1537.0	1541.2	1495.0	1457.2	1390.0	1318.7	1293.5	1276.7	1272.5
75°	1125.5	1154.9	1167.5	1163.3	1146.5	1091.9	1012.1	940.7	894.5	844.1	869.3
77.5°	760.1	802.1	823.1	823.1	797.9	713.9	676.1	621.5	575.3	520.7	529.1
80°	533.3	562.7	596.3	592.1	550.1	508.1	453.5	403.2	365.4	323.4	319.2
82.5°	399.0	415.8	432.6	424.2	394.8	352.8	315.0	268.8	226.8	197.4	197.4
85°	142.8	155.4	189.0	197.4	214.2	214.2	180.6	151.2	121.8	100.8	100.8
87.5°	42.0	42.0	46.2	46.2	42.0	46.2	37.8	42.0	46.2	29.4	29.4
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)