

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: P529336

Luminaire Tested: **GALN-SA4C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529336  
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-SA4C-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA 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: 19830 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

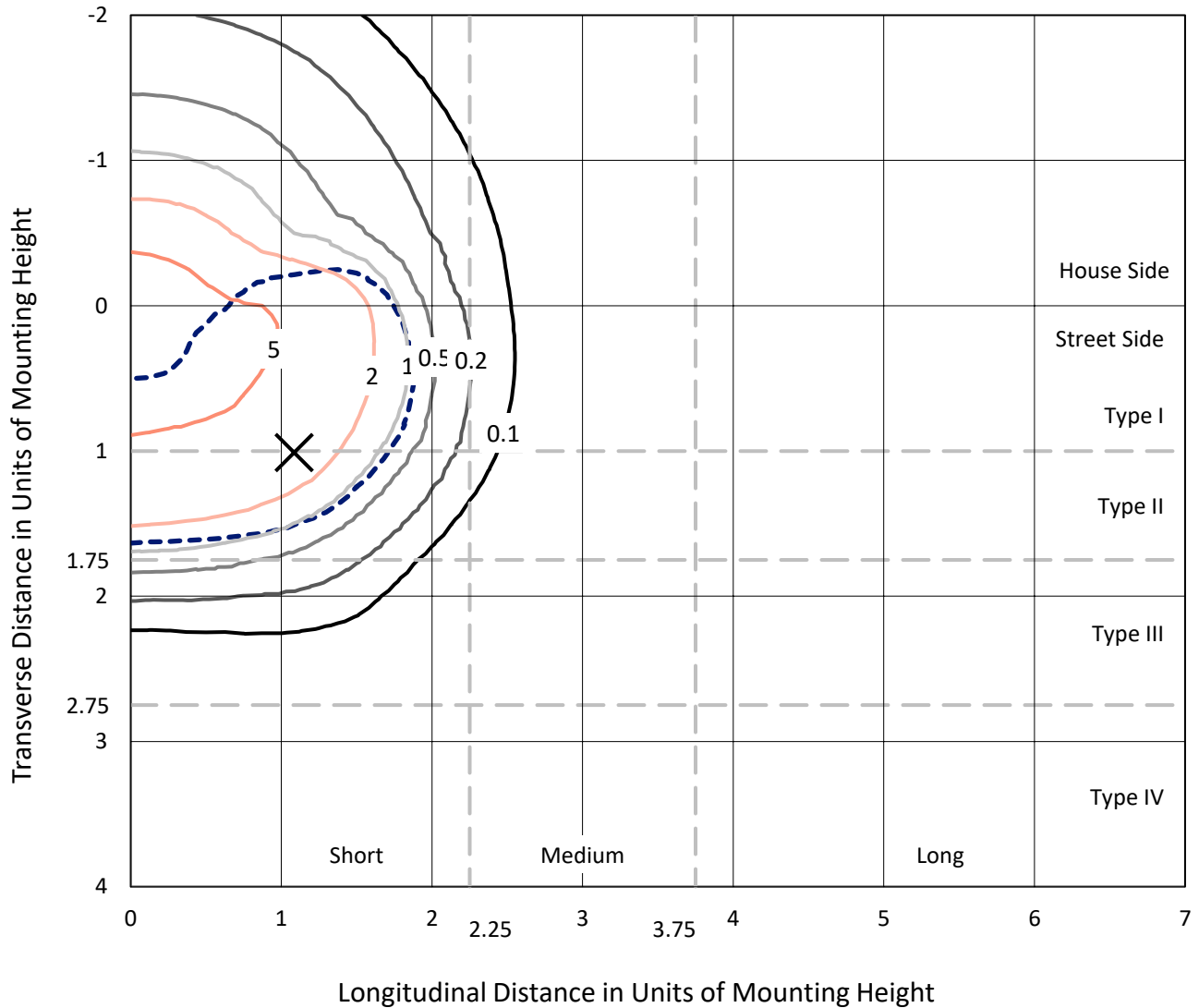
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

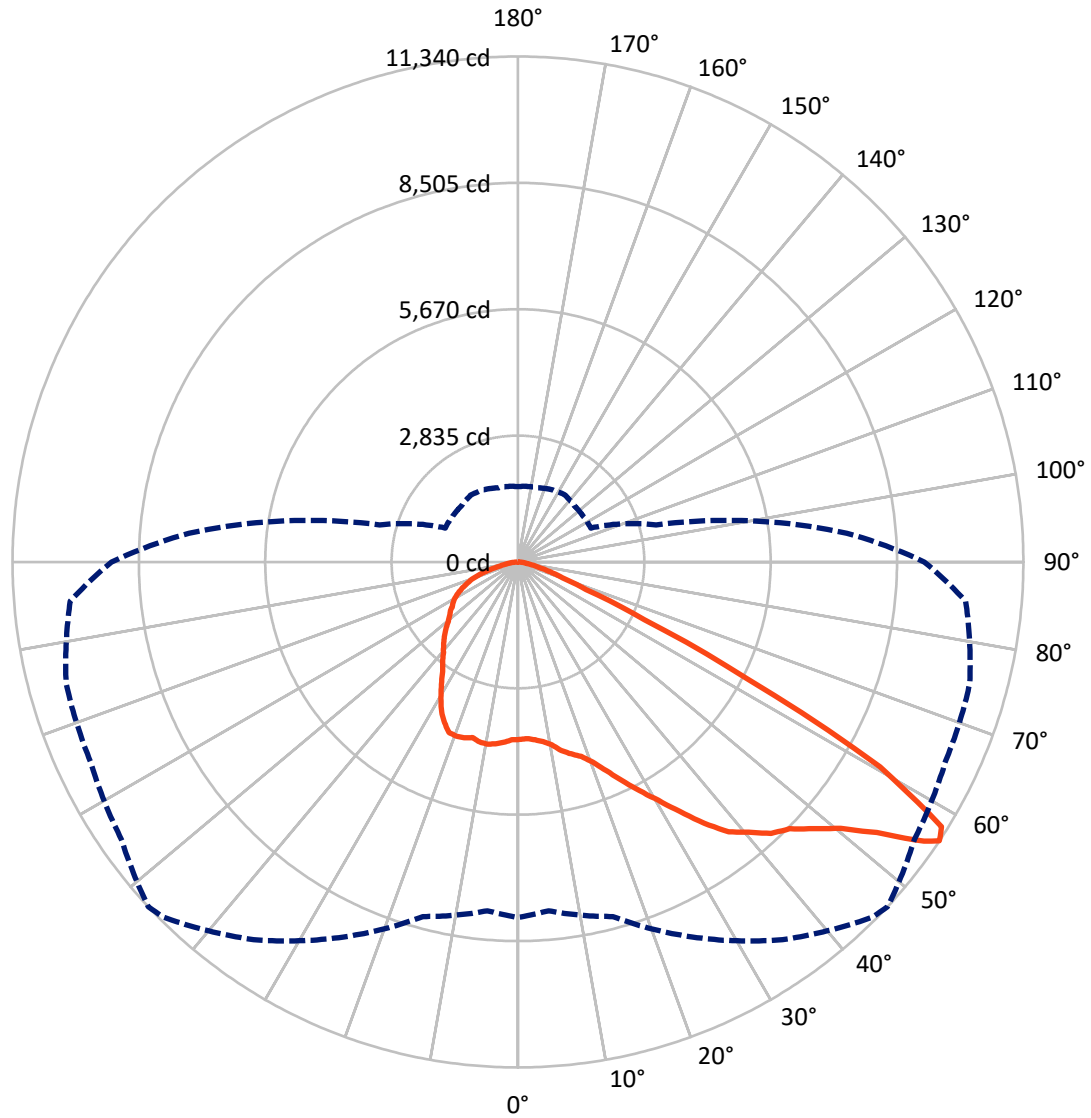
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	6283.9	0.0	6283.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	13546.1	0.0	13546.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	19830.0	0.0	19830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.1	2.0
10°-20°	1224.3	6.2
20°-30°	2164.3	10.9
30°-40°	3250.7	16.4
40°-50°	4461.2	22.5
50°-60°	5314.9	26.8
60°-70°	2274.5	11.5
70°-80°	643.7	3.2
80°-90°	108.3	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°	19830.0	100.0
0°-180°	19830.0	100.0

**Coefficient of Utilization**



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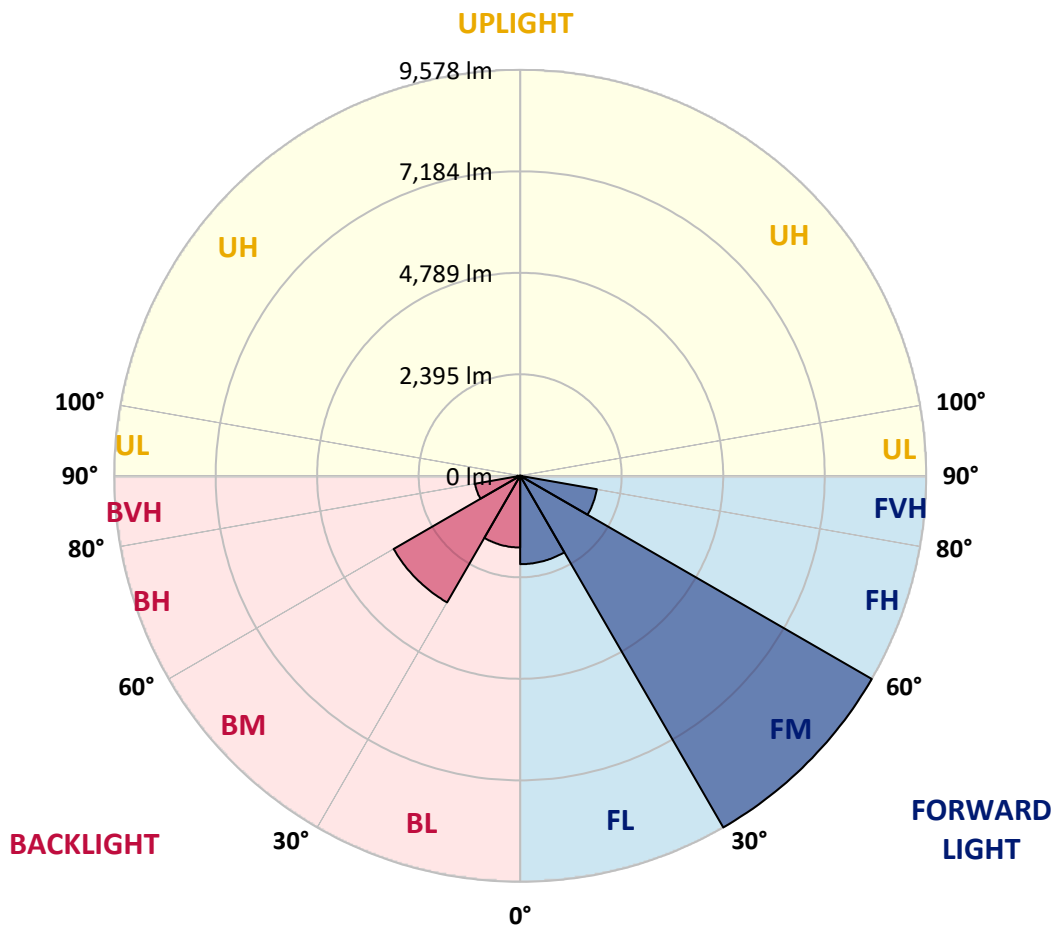
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.8	10.5			
FM (30°-60°)	9578.3	48.3			
FH (60°-80°)	1837.0	9.3			G2/5000
FVH (80°-90°)	46.0	0.2			G1/100
BL (0°-30°)	1691.9	8.5	B3/2500		
BM (30°-60°)	3448.5	17.4	B3/5000		
BH (60°-80°)	1081.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	62.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2
2.5°	3968.1	3960.5	3955.4	3995.9	3980.7	3983.2	3968.1	3983.2	3993.4	3970.6	4003.5
5°	3960.5	3983.2	3963.0	3975.7	4008.5	3998.4	4008.5	4038.9	4031.3	4023.7	4013.6
7.5°	4031.3	4033.8	4049.0	4054.1	4064.2	4054.1	4069.2	4097.1	4089.5	4046.5	4051.5
10°	4132.5	4137.5	4140.0	4167.9	4185.6	4188.1	4170.4	4145.1	4142.6	4200.7	4160.3
12.5°	4248.8	4236.1	4266.5	4276.6	4296.8	4319.6	4342.4	4289.3	4322.1	4324.7	4276.6
15°	4418.2	4430.9	4395.5	4395.5	4403.1	4405.6	4468.8	4443.5	4438.5	4410.7	4430.9
17.5°	4671.1	4585.2	4582.6	4547.2	4542.2	4562.4	4585.2	4605.4	4673.7	4618.0	4509.3
20°	4855.8	4876.0	4802.7	4759.7	4767.2	4812.8	4790.0	4881.1	4929.1	4838.1	4731.8
22.5°	5182.0	5113.7	5131.4	5035.3	5042.9	5091.0	5088.4	5182.0	5209.8	5065.7	4911.4
25°	5402.0	5384.3	5399.5	5323.6	5333.8	5371.7	5432.4	5586.7	5541.1	5381.8	5025.2
27.5°	5723.2	5687.8	5675.2	5647.4	5637.2	5738.4	5809.2	5973.6	5940.7	5708.1	5227.5
30°	6052.0	6029.2	6041.9	5928.1	5968.5	6183.5	6203.7	6428.8	6413.7	6004.0	5452.6
32.5°	6279.6	6292.3	6315.0	6251.8	6431.4	6603.3	6671.6	6927.1	6939.7	6512.3	5887.6
35°	6646.3	6603.3	6616.0	6689.3	6772.8	7086.4	7197.7	7367.1	7473.3	7045.9	6304.9
37.5°	6876.5	6922.0	6868.9	6985.2	7202.7	7579.5	7680.7	7855.2	7966.5	7572.0	6873.9
40°	7235.6	7162.3	7200.2	7283.6	7506.2	7996.8	7969.0	8148.6	8184.0	8019.6	7405.0
42.5°	7622.5	7587.1	7534.0	7723.7	7910.9	8267.4	8323.1	8239.6	8419.2	8457.1	8163.8
45°	8085.4	8128.3	8135.9	8141.0	8305.4	8616.5	8540.6	8467.2	8674.6	8950.3	8634.2
47.5°	8515.3	8378.7	8477.4	8613.9	8846.6	8849.1	8937.6	8763.1	8983.2	9228.5	9059.0
50°	8659.4	8593.7	8725.2	8983.2	9342.3	9380.2	9390.3	9142.5	9256.3	9451.0	9205.7
52.5°	8603.8	8581.0	8917.4	9317.0	9843.0	10035.2	10085.8	9779.8	9843.0	9754.5	9529.4
55°	8338.3	8406.5	8745.4	9559.8	10366.6	10960.9	11057.0	10670.0	10267.9	10336.2	10088.4
56°	7974.1	7855.2	8234.6	9284.1	10343.8	11261.8	11340.2	10857.2	10584.0	10495.5	10083.3
57.5°	6765.2	6610.9	7109.1	8353.4	9769.7	11148.0	11206.2	10935.6	10530.9	10351.4	9347.3
60°	3960.5	4036.4	4668.6	5761.2	7536.6	9140.0	9334.7	9532.0	9261.4	8457.1	6957.4
62.5°	1912.0	1863.9	2316.6	3302.9	4592.7	5834.5	5776.3	6330.2	6633.7	6009.0	4392.9
65°	1001.5	996.4	1264.5	1803.2	2524.0	3065.2	3118.3	3416.7	3834.0	3095.6	2230.6
67.5°	736.0	756.2	890.2	1267.1	1623.6	1656.5	1648.9	1798.2	1838.6	1555.4	1370.7
70°	576.6	586.7	685.4	963.6	1208.9	1082.4	1059.7	1077.4	1196.2	1246.8	1186.1
72.5°	417.3	427.4	510.9	650.0	756.2	738.5	753.7	852.3	999.0	1052.1	988.9
75°	278.2	285.8	331.3	397.1	447.6	483.0	510.9	624.7	761.2	791.6	761.2
77.5°	192.2	199.8	230.1	280.7	285.8	308.5	318.7	371.8	455.2	493.2	472.9
80°	108.7	108.7	123.9	144.2	177.0	207.4	212.4	255.4	293.4	318.7	323.7
82.5°	50.6	53.1	65.8	88.5	116.3	144.2	149.2	177.0	204.9	230.1	237.7
85°	25.3	27.8	37.9	53.1	70.8	86.0	83.5	86.0	91.0	86.0	88.5
87.5°	7.6	7.6	10.1	12.6	10.1	12.6	12.6	15.2	17.7	20.2	22.8
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°	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2	3983.2
2.5°	4006.0	4013.6	3963.0	4011.1	3993.4	3990.8	4026.2	4021.2	4033.8	4028.8	3998.4
5°	4008.5	3990.8	4043.9	3995.9	4018.7	4066.7	4033.8	4109.7	4071.8	4097.1	4041.4
7.5°	4086.9	4092.0	4081.9	4102.1	4092.0	4114.8	4097.1	4114.8	4084.4	4086.9	4137.5
10°	4155.2	4140.0	4157.7	4132.5	4150.2	4142.6	4102.1	4089.5	4099.6	4086.9	4119.8
12.5°	4281.7	4253.9	4241.2	4210.9	4190.6	4114.8	4051.5	4016.1	4064.2	4071.8	4056.6
15°	4410.7	4413.2	4355.0	4286.7	4160.3	4046.5	4061.6	4074.3	4074.3	4094.5	4056.6
17.5°	4491.6	4491.6	4438.5	4301.9	4172.9	4107.2	4092.0	4051.5	4016.1	4011.1	4008.5
20°	4633.2	4590.2	4468.8	4299.4	4167.9	4137.5	4023.7	3927.6	3854.3	3829.0	3826.4
22.5°	4795.1	4686.3	4516.9	4304.4	4160.3	4117.3	3904.8	3760.7	3629.2	3573.5	3581.1
25°	4944.3	4769.8	4544.7	4281.7	4132.5	3925.1	3687.3	3487.6	3351.0	3305.5	3282.7
27.5°	5048.0	4858.3	4544.7	4301.9	4028.8	3710.1	3467.3	3211.9	3093.0	3062.7	3067.7
30°	5187.1	4969.6	4623.1	4258.9	3821.4	3431.9	3141.1	2974.2	2903.3	2878.1	2895.8
32.5°	5513.3	5260.4	4731.8	4155.2	3576.1	3153.7	2918.5	2824.9	2721.3	2670.7	2653.0
35°	5867.4	5536.1	4838.1	3980.7	3300.4	2900.8	2754.1	2668.1	2544.2	2488.6	2498.7
37.5°	6368.1	5890.1	4845.6	3692.4	3002.0	2759.2	2625.1	2491.1	2389.9	2304.0	2278.7
40°	7043.4	6373.2	4827.9	3388.9	2761.7	2592.3	2493.6	2326.7	2212.9	2152.2	2164.9
42.5°	7637.7	6939.7	4754.6	3045.0	2544.2	2478.5	2367.2	2202.8	2091.5	2028.3	2023.2
45°	8138.5	7357.0	4615.5	2751.6	2362.1	2352.0	2223.0	2096.6	2008.1	1949.9	1975.2
47.5°	8601.3	7693.4	4405.6	2458.2	2195.2	2215.4	2091.5	2013.1	1957.5	1904.4	1901.8
50°	8768.2	7688.3	4221.0	2215.4	2061.2	2051.1	2046.0	1962.5	1904.4	1858.8	1879.1
52.5°	9046.4	7774.3	4021.2	2048.5	1939.8	1942.3	1960.0	1899.3	1833.6	1805.7	1831.0
55°	9446.0	7786.9	3581.1	1853.8	1838.6	1856.3	1856.3	1815.9	1760.2	1737.5	1724.8
56°	9119.7	7410.1	3211.9	1803.2	1788.0	1788.0	1836.1	1790.6	1722.3	1704.6	1689.4
57.5°	8411.6	6492.1	2688.4	1742.5	1719.8	1755.2	1780.4	1732.4	1669.2	1643.9	1659.1
60°	5801.6	4392.9	2020.7	1611.0	1611.0	1669.2	1689.4	1618.6	1590.8	1588.2	1568.0
62.5°	3386.4	2559.4	1580.7	1492.1	1497.2	1545.2	1560.4	1520.0	1484.5	1527.5	1547.8
65°	1795.6	1527.5	1355.6	1365.7	1368.2	1406.1	1471.9	1469.4	1466.8	1479.5	1482.0
67.5°	1299.9	1269.6	1231.6	1221.5	1226.6	1254.4	1320.2	1370.7	1368.2	1337.9	1315.1
70°	1158.3	1115.3	1092.5	1095.1	1074.8	1107.7	1160.8	1193.7	1135.5	1100.1	1085.0
72.5°	963.6	950.9	935.7	938.3	897.8	890.2	829.5	829.5	814.4	804.2	821.9
75°	736.0	730.9	738.5	725.8	682.8	637.3	601.9	569.0	518.5	498.2	488.1
77.5°	465.3	480.5	498.2	470.4	452.7	419.8	384.4	351.5	311.1	288.3	288.3
80°	316.1	328.8	341.4	336.4	316.1	285.8	258.0	222.6	194.7	177.0	174.5
82.5°	240.3	250.4	268.1	247.8	227.6	202.3	179.6	154.3	129.0	108.7	108.7
85°	86.0	98.6	108.7	118.9	126.5	129.0	111.3	91.0	73.3	58.2	55.6
87.5°	22.8	25.3	27.8	25.3	25.3	25.3	27.8	25.3	22.8	17.7	17.7
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)