

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: P532458

Luminaire Tested: **GALN-SA7D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532458  
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-SA7D-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 47036 lumens  
Efficiency: N/A  
Efficacy: 108.6 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

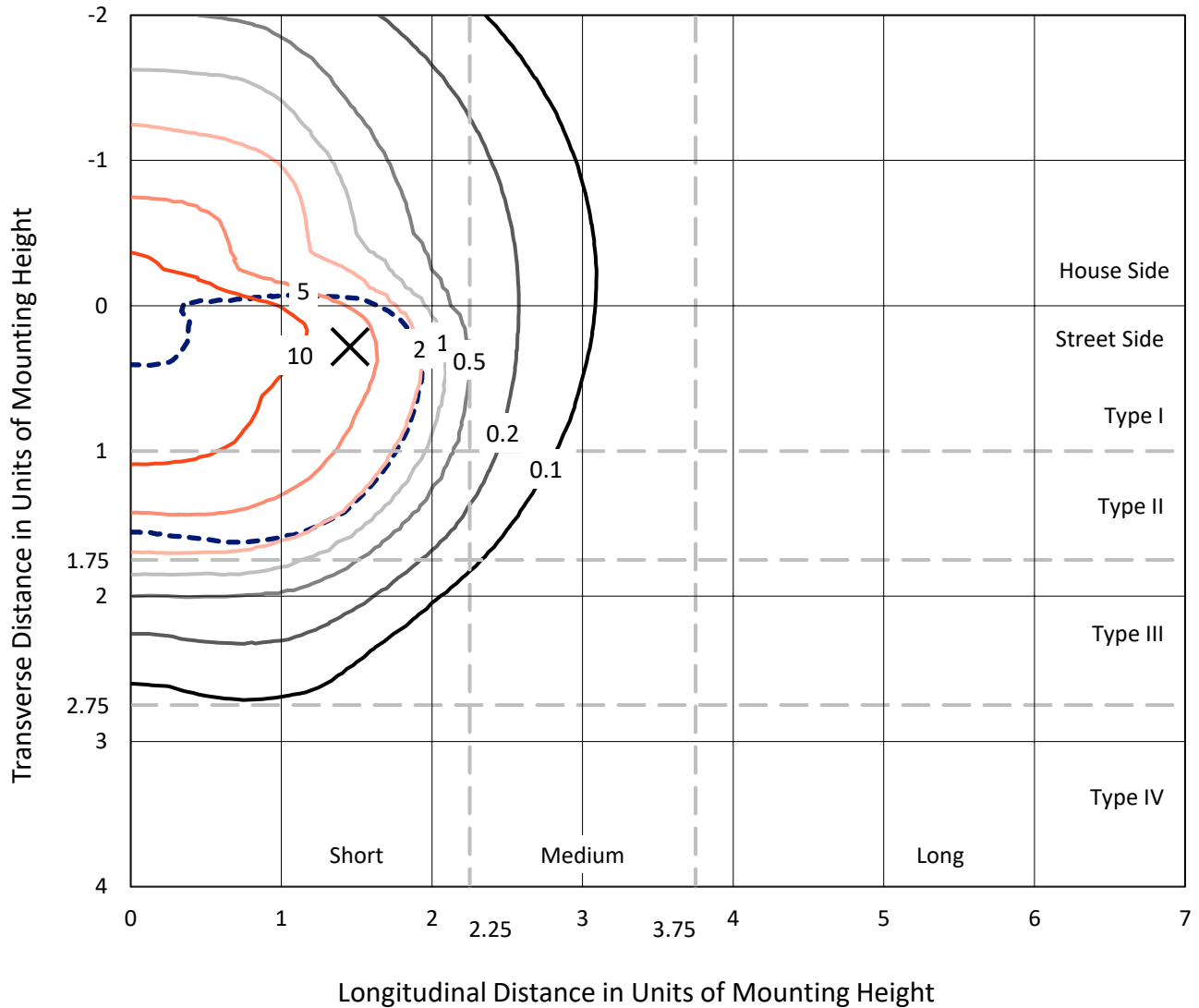
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

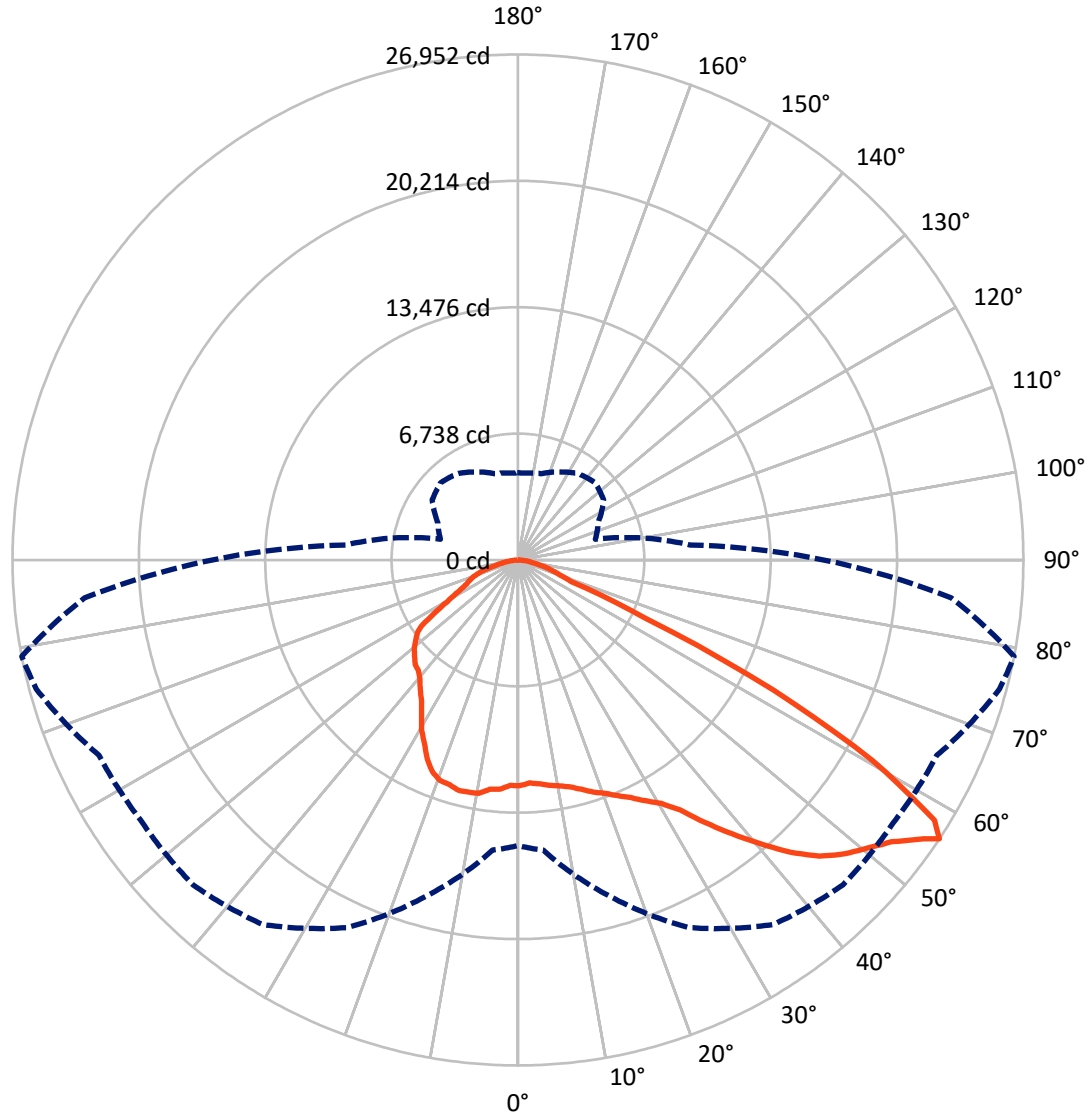
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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	13890.8	0.0	13890.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	33145.2	0.0	33145.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	47036.0	0.0	47036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.2	2.3
10°-20°	2994.5	6.4
20°-30°	5122.9	10.9
30°-40°	7851.6	16.7
40°-50°	10611.3	22.6
50°-60°	12187.5	25.9
60°-70°	5555.4	11.8
70°-80°	1369.7	2.9
80°-90°	248.9	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°	47036.0	100.0
0°-180°	47036.0	100.0

**Coefficient of Utilization**



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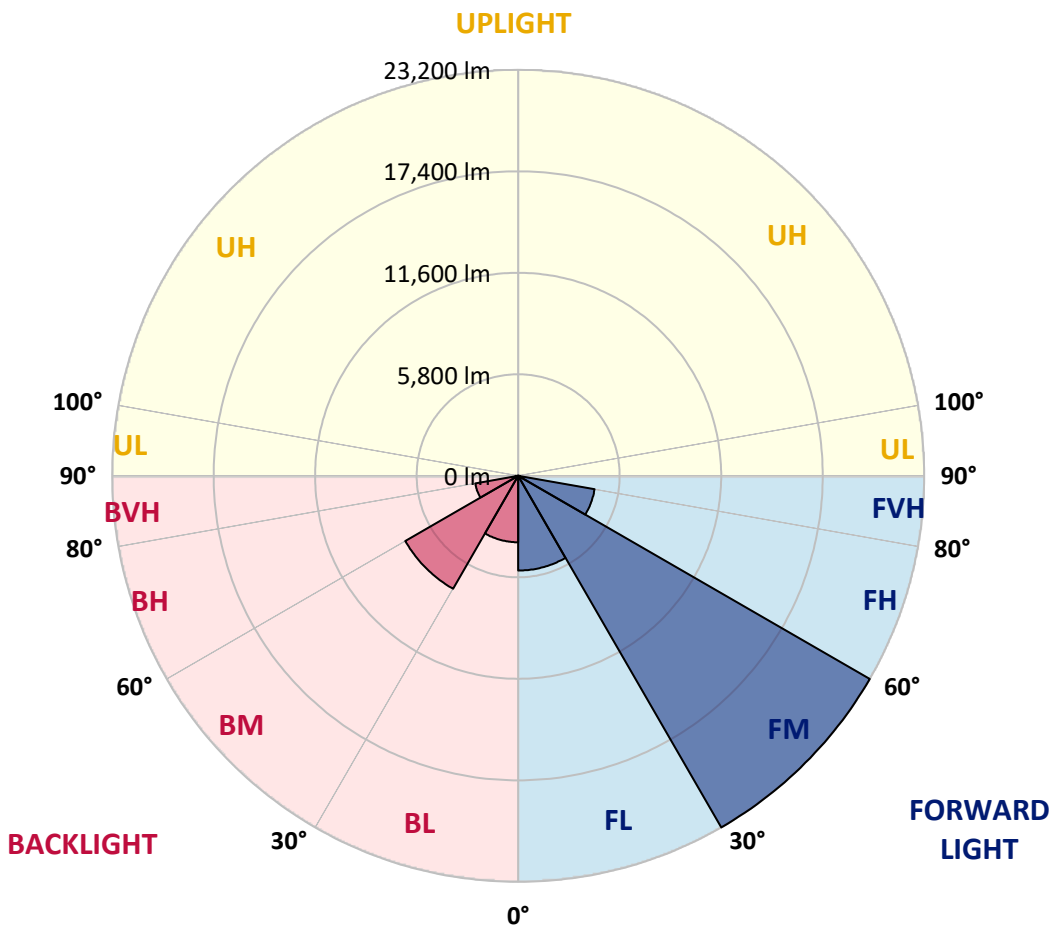
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5411.9	11.5			
FM (30°-60°)	23199.5	49.3			
FH (60°-80°)	4434.4	9.4			G2/5000
FVH (80°-90°)	99.4	0.2			G1/100
BL (0°-30°)	3799.7	8.1	B4/5000		
BM (30°-60°)	7450.8	15.8	B4/8500		
BH (60°-80°)	2490.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	149.5	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°	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6
2.5°	11448.7	11419.4	11489.8	11542.5	11606.9	11689.0	11730.0	11753.4	11958.5	11905.7	12063.9
5°	11202.7	11126.5	11179.2	11220.2	11331.6	11431.2	11542.5	11718.3	11905.7	11987.8	12181.1
7.5°	10985.9	10944.9	10933.1	10962.4	11114.8	11243.7	11437.0	11694.8	11999.5	12134.3	12245.6
10°	10628.5	10569.9	10657.8	10851.1	10892.1	11161.6	11384.3	11753.4	12017.1	12251.4	12579.5
12.5°	10470.3	10411.7	10429.2	10540.6	10827.7	11085.5	11349.1	11765.1	12321.7	12415.5	12854.9
15°	10722.2	10663.6	10681.2	10651.9	10927.3	11062.0	11478.0	11999.5	12532.7	12690.9	13159.6
17.5°	11296.4	11302.3	11226.1	11161.6	11097.2	11384.3	11671.4	12140.1	12614.7	13013.1	13364.7
20°	12392.1	12198.7	12046.4	11683.1	11583.5	11706.5	12069.8	12521.0	12948.7	13276.8	13675.2
22.5°	13235.8	13253.3	13036.6	12438.9	12222.1	12274.9	12585.4	12954.5	13423.3	13657.6	14114.6
25°	14460.3	14337.3	14102.9	13628.3	13142.0	13183.0	13411.5	13745.5	13874.4	14038.5	14536.5
27.5°	15579.4	15614.6	15151.7	14706.4	14102.9	13985.7	14395.9	14454.5	14237.7	14548.2	14718.1
30°	16716.1	16686.8	16382.1	15860.7	15268.9	15292.3	15474.0	15186.9	14888.0	15058.0	15175.1
32.5°	17893.8	17559.8	17548.1	17079.4	16628.2	16411.4	16188.8	16329.4	15866.5	15901.7	15790.4
35°	18837.1	18884.0	18614.5	18280.5	18057.8	17677.0	17067.6	17319.6	17231.7	17190.7	16710.2
37.5°	19522.6	19341.0	19475.7	19364.4	19153.5	18678.9	18046.1	18286.3	18327.4	18526.6	17969.9
40°	20085.1	20008.9	20366.3	20424.9	20278.4	19253.1	18116.4	18831.2	19446.4	19880.0	19217.9
42.5°	20354.6	20518.7	20893.7	21344.8	21016.7	19921.0	18479.7	19247.2	20618.3	21303.8	20401.5
45°	20717.9	20506.9	21063.6	21889.7	21895.6	20483.5	18831.2	19809.7	21532.3	22528.3	21210.0
47.5°	20348.8	20454.2	21028.4	22077.2	22346.7	21075.3	19780.4	20606.6	22540.1	23424.8	21960.0
50°	19522.6	19733.5	20782.3	21872.1	22686.5	21702.2	20870.2	21467.8	23471.7	24145.5	22083.1
52.5°	18661.3	18778.5	20419.1	22030.3	22838.9	22510.8	22329.1	22657.2	24608.3	24959.9	22235.4
55°	16317.7	16874.3	19217.9	21960.0	23583.0	23969.7	23829.1	24309.5	25897.3	26248.9	23067.4
56°	15233.7	15526.7	18497.3	21631.9	23729.5	24502.9	24432.6	24649.4	26582.9	26952.0	23196.3
57.5°	13229.9	13253.3	15772.8	20178.8	23178.7	24661.1	24590.8	24760.7	26448.1	26196.2	22065.5
60°	8278.9	8642.2	10733.9	15520.8	19710.1	22879.9	23278.3	21913.1	22299.8	21766.7	17167.2
62.5°	4288.9	4236.1	5624.8	9075.8	13083.4	16382.1	16751.2	16686.8	16089.2	15309.9	11214.4
65°	2138.6	2150.3	2941.3	4494.0	6702.8	8577.8	9609.0	9720.3	8132.5	7482.1	5320.1
67.5°	1552.7	1611.3	2115.1	2747.9	3158.1	3533.1	4329.9	4247.9	3216.7	3058.5	2835.8
70°	1207.0	1259.7	1716.7	2097.6	1904.2	1904.2	2074.1	2144.4	2290.9	2355.4	2431.5
72.5°	878.9	919.9	1312.4	1447.2	1248.0	1341.7	1552.7	1716.7	1869.1	1892.5	1980.4
75°	603.5	638.6	861.3	796.8	750.0	925.7	1136.7	1289.0	1400.3	1458.9	1511.7
77.5°	392.6	404.3	492.2	416.0	480.4	597.6	738.3	867.2	978.5	1025.3	1037.1
80°	175.8	193.4	210.9	263.7	334.0	427.7	527.3	632.8	703.1	720.7	755.8
82.5°	99.6	99.6	128.9	187.5	246.1	310.5	380.8	457.0	539.0	556.6	550.8
85°	52.7	52.7	76.2	111.3	152.3	181.6	175.8	181.6	193.4	222.6	216.8
87.5°	17.6	17.6	23.4	23.4	29.3	35.2	29.3	41.0	52.7	52.7	52.7
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°	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6	12034.6
2.5°	12017.1	12069.8	11999.5	12151.8	12151.8	12122.5	11976.1	12022.9	12058.1	12058.1	12087.4
5°	12245.6	12228.0	12274.9	12093.2	11981.9	11940.9	11700.7	11583.5	11483.9	11478.0	11390.1
7.5°	12374.5	12327.6	12310.0	12175.3	11683.1	11384.3	10868.7	10569.9	10505.4	10276.9	10364.8
10°	12579.5	12667.4	12579.5	11847.2	11161.6	10476.1	9972.2	9509.4	9327.7	9181.3	9093.4
12.5°	13001.4	12960.4	12450.6	11460.5	10499.6	9685.1	8935.2	8448.9	8267.2	8138.3	8126.6
15°	13358.8	13153.7	12374.5	10851.1	9468.4	8601.2	7986.0	7640.3	7558.3	7570.0	7622.7
17.5°	13481.9	13341.2	11976.1	10218.3	8700.8	7681.3	7394.2	7341.5	7417.7	7505.5	7529.0
20°	13675.2	13452.6	11812.0	9357.0	7751.6	7107.1	7089.5	7277.0	7417.7	7546.6	7564.1
22.5°	14079.5	13517.0	11278.8	8542.6	7101.3	6937.2	7107.1	7265.3	7482.1	7587.6	7493.8
25°	14196.7	13376.4	10528.9	7564.1	6691.1	6831.7	7013.4	7230.2	7382.5	7441.1	7482.1
27.5°	14296.3	13159.6	9515.2	6913.8	6562.2	6825.9	7013.4	7195.0	7277.0	7329.8	7376.6
30°	14577.5	13095.2	8636.4	6480.2	6480.2	6708.7	6948.9	6995.8	7107.1	7171.6	7253.6
32.5°	14718.1	12649.9	7734.0	6204.8	6398.2	6767.3	6784.9	6872.8	6878.6	6931.3	6843.5
35°	15087.3	12333.5	6896.2	6005.6	6433.3	6708.7	6796.6	6743.9	6456.8	6316.1	6345.4
37.5°	15356.8	12175.3	6292.7	5982.2	6439.2	6773.2	6820.0	6421.6	6122.8	5888.4	5947.0
40°	16083.3	11782.7	5835.7	5941.2	6491.9	6843.5	6714.6	6281.0	5741.9	5501.7	5460.7
42.5°	16639.9	11501.5	5548.6	5894.3	6532.9	6943.1	6661.8	5999.7	5449.0	5226.3	5284.9
45°	17284.4	11437.0	5396.3	5906.0	6603.2	6995.8	6597.4	5783.0	5197.0	5109.2	5091.6
47.5°	17512.9	10974.1	5232.2	5806.4	6585.7	6978.2	6380.6	5618.9	5103.3	5115.0	5161.9
50°	17132.1	10499.6	5109.2	5601.3	6468.5	6820.0	6040.8	5402.1	5050.6	5197.0	5279.1
52.5°	16645.8	10013.3	4857.2	5325.9	6228.3	6573.9	5882.6	5390.4	4997.8	4951.0	4968.5
55°	16792.3	9614.8	4505.7	4951.0	5841.6	6116.9	5706.8	5279.1	4868.9	4693.2	4751.8
56°	16317.7	9204.7	4277.2	4716.6	5577.9	5824.0	5618.9	5179.5	4763.5	4646.3	4646.3
57.5°	14975.9	7827.8	3978.3	4341.6	5021.3	5314.2	5449.0	5120.9	4646.3	4441.2	4447.1
60°	11044.5	5566.2	3568.2	3826.0	4160.0	4394.3	5021.3	4956.8	4353.3	4212.7	4160.0
62.5°	6808.3	4066.2	3275.3	3374.9	3544.8	3738.1	4382.6	4488.1	4042.8	3890.5	3855.3
65°	3814.3	3111.2	3052.6	3093.6	3175.6	3275.3	3638.5	3872.9	3568.2	3333.8	3322.1
67.5°	2788.9	2783.1	2830.0	2865.1	2900.3	2900.3	2988.2	3081.9	3040.9	2853.4	2835.8
70°	2478.4	2496.0	2531.1	2537.0	2548.7	2507.7	2437.4	2408.1	2455.0	2337.8	2314.4
72.5°	2044.8	2103.4	2144.4	2150.3	2085.8	2033.1	1939.4	1839.8	1804.6	1781.2	1775.3
75°	1570.2	1611.3	1628.8	1623.0	1599.5	1523.4	1412.0	1312.4	1248.0	1177.7	1212.8
77.5°	1060.5	1119.1	1148.4	1148.4	1113.2	996.1	943.3	867.2	802.7	726.5	738.3
80°	744.1	785.1	832.0	826.1	767.5	709.0	632.8	562.5	509.7	451.2	445.3
82.5°	556.6	580.1	603.5	591.8	550.8	492.2	439.4	375.0	316.4	275.4	275.4
85°	199.2	216.8	263.7	275.4	298.8	298.8	251.9	210.9	169.9	140.6	140.6
87.5°	58.6	58.6	64.5	64.5	58.6	64.5	52.7	58.6	64.5	41.0	41.0
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)