

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: P530974

Luminaire Tested: **GALN-SA6B-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530974  
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-SA6B-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA 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: 24059 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

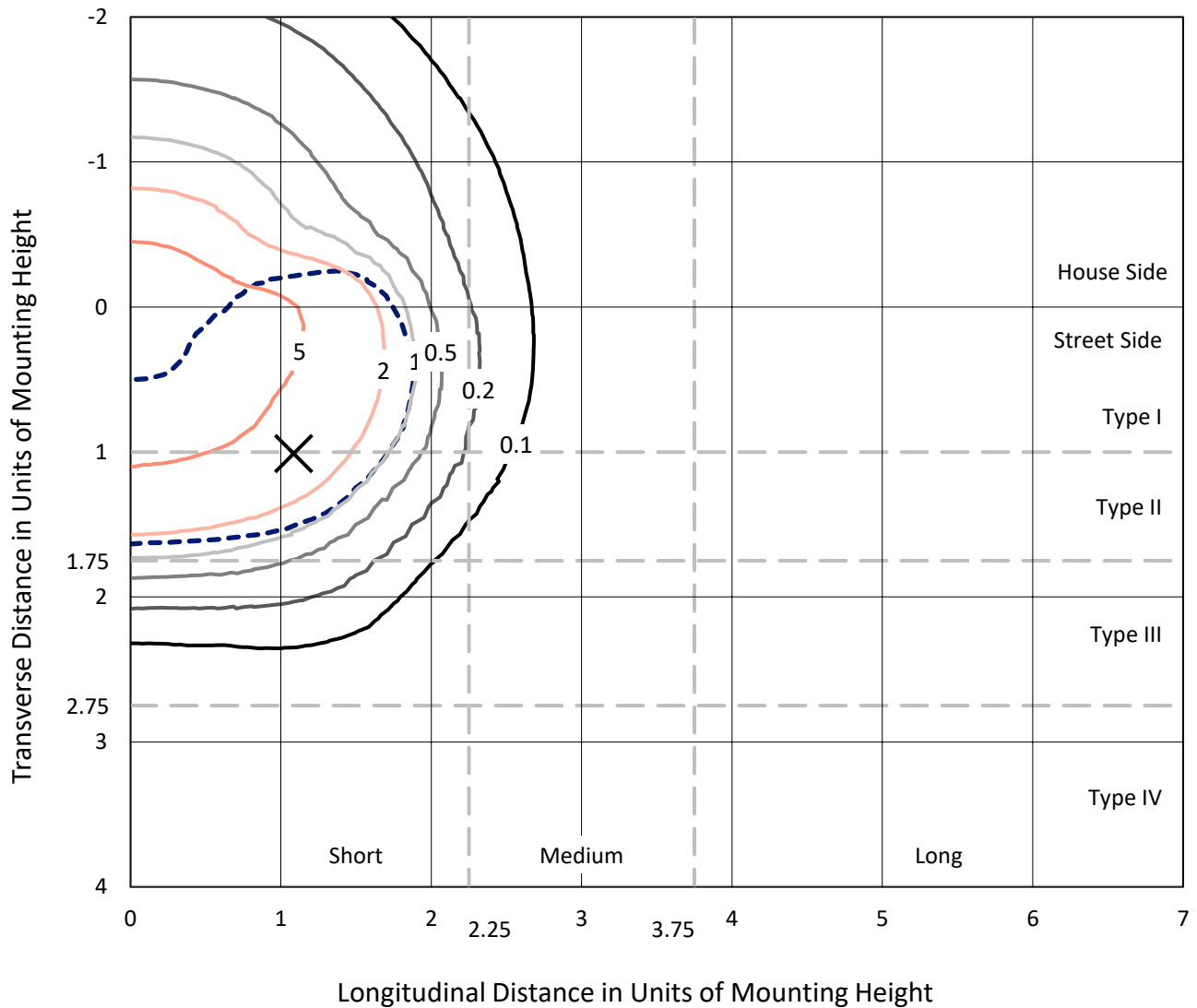
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

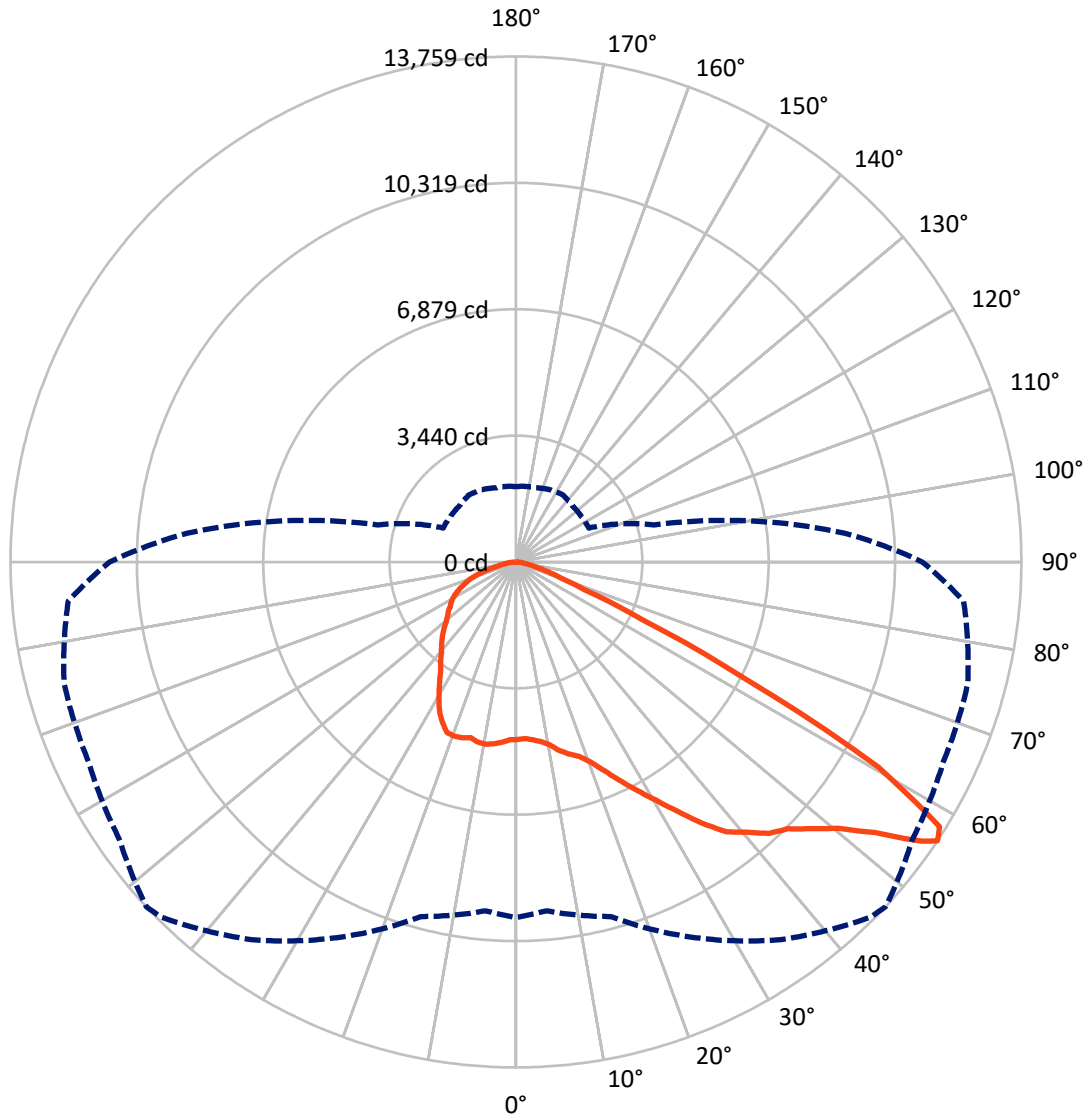
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	7624.0	0.0	7624.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	16435.0	0.0	16435.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	24059.0	0.0	24059.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.9	2.0
10°-20°	1485.4	6.2
20°-30°	2625.8	10.9
30°-40°	3943.9	16.4
40°-50°	5412.6	22.5
50°-60°	6448.4	26.8
60°-70°	2759.5	11.5
70°-80°	780.9	3.2
80°-90°	131.4	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°	24059.0	100.0
0°-180°	24059.0	100.0

**Coefficient of Utilization**



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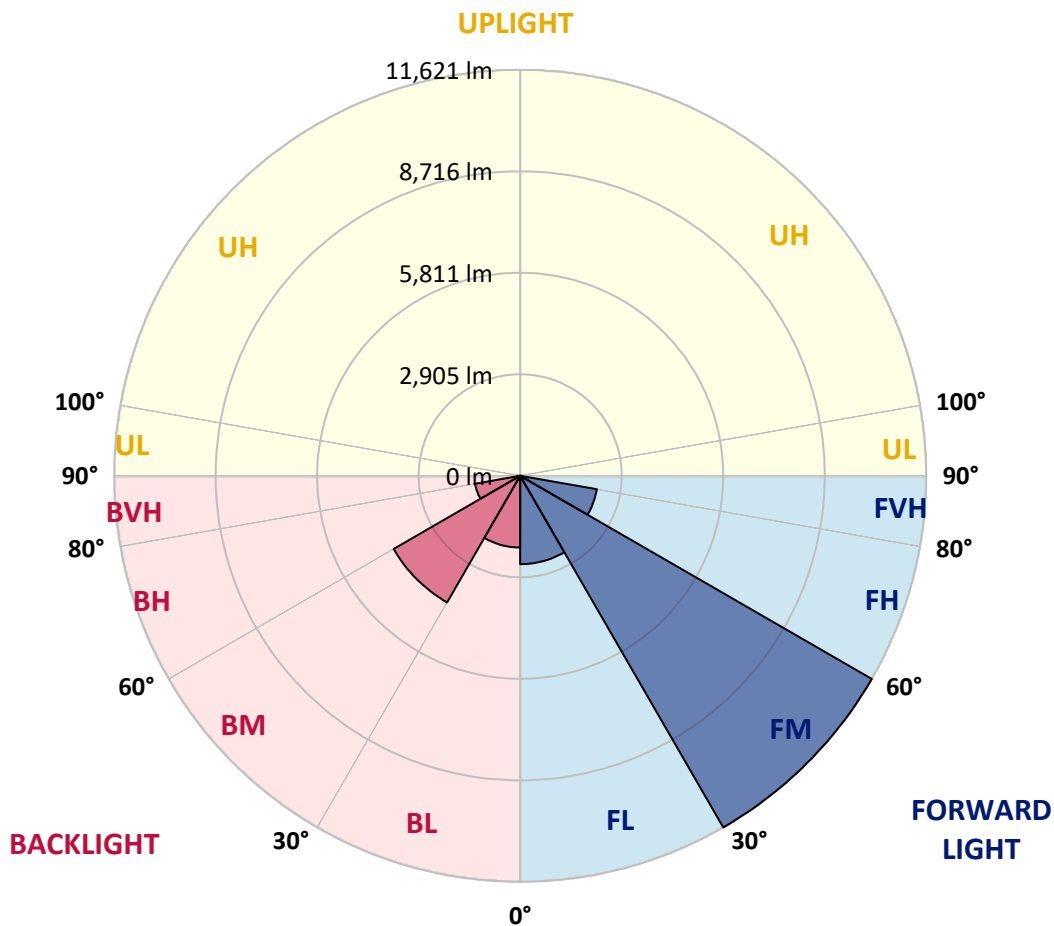
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.4	10.5			
FM (30°-60°)	11621.1	48.3			
FH (60°-80°)	2228.7	9.3			G2/5000
FVH (80°-90°)	55.8	0.2			G1/100
BL (0°-30°)	2052.7	8.5	B3/2500		
BM (30°-60°)	4183.9	17.4	B3/5000		
BH (60°-80°)	1311.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	75.6	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°	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7
2.5°	4814.3	4805.1	4799.0	4848.1	4829.7	4832.7	4814.3	4832.7	4845.0	4817.4	4857.3
5°	4805.1	4832.7	4808.2	4823.5	4863.4	4851.1	4863.4	4900.2	4891.0	4881.8	4869.5
7.5°	4891.0	4894.1	4912.5	4918.6	4930.9	4918.6	4937.0	4970.8	4961.6	4909.4	4915.6
10°	5013.8	5019.9	5023.0	5056.7	5078.2	5081.3	5059.8	5029.1	5026.0	5096.6	5047.5
12.5°	5154.9	5139.6	5176.4	5188.7	5213.2	5240.8	5268.4	5204.0	5243.9	5247.0	5188.7
15°	5360.5	5375.8	5332.9	5332.9	5342.1	5345.1	5421.9	5391.2	5385.0	5351.3	5375.8
17.5°	5667.3	5563.0	5559.9	5517.0	5510.8	5535.4	5563.0	5587.5	5670.4	5602.9	5470.9
20°	5891.3	5915.9	5826.9	5774.7	5783.9	5839.2	5811.5	5922.0	5980.3	5869.8	5741.0
22.5°	6287.1	6204.3	6225.8	6109.2	6118.4	6176.7	6173.6	6287.1	6320.9	6146.0	5958.8
25°	6554.1	6532.6	6551.0	6459.0	6471.2	6517.3	6590.9	6778.1	6722.9	6529.5	6096.9
27.5°	6943.8	6900.8	6885.5	6851.7	6839.5	6962.2	7048.1	7247.5	7207.7	6925.4	6342.4
30°	7342.7	7315.1	7330.4	7192.3	7241.4	7502.2	7526.8	7799.9	7781.4	7284.4	6615.5
32.5°	7618.8	7634.2	7661.8	7585.1	7802.9	8011.6	8094.4	8404.3	8419.7	7901.1	7143.2
35°	8063.7	8011.6	8026.9	8115.9	8217.2	8597.6	8732.7	8938.2	9067.1	8548.5	7649.5
37.5°	8343.0	8398.2	8333.8	8474.9	8738.8	9196.0	9318.7	9530.4	9665.4	9186.8	8339.9
40°	8778.7	8689.7	8735.7	8837.0	9107.0	9702.3	9668.5	9886.4	9929.3	9729.9	8984.3
42.5°	9248.1	9205.2	9140.7	9370.9	9597.9	10030.6	10098.1	9996.8	10214.7	10260.7	9904.8
45°	9809.7	9861.8	9871.0	9877.2	10076.6	10454.0	10362.0	10273.0	10524.6	10859.0	10475.5
47.5°	10331.3	10165.6	10285.3	10451.0	10733.2	10736.3	10843.7	10632.0	10898.9	11196.6	10991.0
50°	10506.2	10426.4	10586.0	10898.9	11334.7	11380.7	11393.0	11092.2	11230.3	11466.6	11169.0
52.5°	10438.7	10411.1	10819.2	11304.0	11942.2	12175.4	12236.8	11865.5	11942.2	11834.8	11561.7
55°	10116.5	10199.3	10610.5	11598.5	12577.4	13298.4	13415.0	12945.6	12457.7	12540.5	12239.8
56°	9674.6	9530.4	9990.7	11264.1	12549.7	13663.6	13758.7	13172.6	12841.2	12733.8	12233.7
57.5°	8208.0	8020.8	8625.3	10134.9	11853.2	13525.5	13596.1	13267.7	12776.8	12558.9	11340.8
60°	4805.1	4897.2	5664.3	6989.8	9143.8	11089.2	11325.4	11564.8	11236.5	10260.7	8441.2
62.5°	2319.7	2261.4	2810.6	4007.3	5572.2	7078.8	7008.2	7680.2	8048.4	7290.5	5329.8
65°	1215.1	1208.9	1534.2	2187.8	3062.3	3718.9	3783.3	4145.4	4651.7	3755.7	2706.3
67.5°	892.9	917.5	1080.1	1537.3	1969.9	2009.8	2000.6	2181.6	2230.7	1887.1	1663.1
70°	699.6	711.9	831.5	1169.1	1466.7	1313.3	1285.7	1307.1	1451.4	1512.7	1439.1
72.5°	506.3	518.6	619.8	788.6	917.5	896.0	914.4	1034.0	1212.0	1276.5	1199.7
75°	337.5	346.7	402.0	481.7	543.1	586.1	619.8	757.9	923.6	960.4	923.6
77.5°	233.2	242.4	279.2	340.6	346.7	374.3	386.6	451.1	552.3	598.3	573.8
80°	131.9	131.9	150.4	174.9	214.8	251.6	257.7	309.9	355.9	386.6	392.8
82.5°	61.4	64.4	79.8	107.4	141.1	174.9	181.0	214.8	248.5	279.2	288.4
85°	30.7	33.8	46.0	64.4	85.9	104.3	101.3	104.3	110.5	104.3	107.4
87.5°	9.2	9.2	12.3	15.3	12.3	15.3	15.3	18.4	21.5	24.5	27.6
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°	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7	4832.7
2.5°	4860.3	4869.5	4808.2	4866.5	4845.0	4841.9	4884.9	4878.7	4894.1	4888.0	4851.1
5°	4863.4	4841.9	4906.4	4848.1	4875.7	4934.0	4894.1	4986.1	4940.1	4970.8	4903.3
7.5°	4958.5	4964.7	4952.4	4976.9	4964.7	4992.3	4970.8	4992.3	4955.5	4958.5	5019.9
10°	5041.4	5023.0	5044.4	5013.8	5035.2	5026.0	4976.9	4961.6	4973.9	4958.5	4998.4
12.5°	5194.8	5161.0	5145.7	5108.9	5084.3	4992.3	4915.6	4872.6	4930.9	4940.1	4921.7
15°	5351.3	5354.3	5283.8	5200.9	5047.5	4909.4	4927.8	4943.2	4943.2	4967.7	4921.7
17.5°	5449.5	5449.5	5385.0	5219.3	5062.9	4983.1	4964.7	4915.6	4872.6	4866.5	4863.4
20°	5621.3	5569.1	5421.9	5216.3	5056.7	5019.9	4881.8	4765.2	4676.2	4645.6	4642.5
22.5°	5817.7	5685.7	5480.2	5222.4	5047.5	4995.3	4737.6	4562.7	4403.1	4335.6	4344.8
25°	5998.7	5787.0	5513.9	5194.8	5013.8	4762.1	4473.7	4231.3	4065.6	4010.4	3982.8
27.5°	6124.5	5894.4	5513.9	5219.3	4888.0	4501.3	4206.8	3896.9	3752.6	3715.8	3722.0
30°	6293.3	6029.4	5609.0	5167.2	4636.3	4163.8	3810.9	3608.4	3522.5	3491.8	3513.3
32.5°	6689.1	6382.3	5741.0	5041.4	4338.7	3826.3	3540.9	3427.4	3301.6	3240.2	3218.7
35°	7118.7	6716.7	5869.8	4829.7	4004.3	3519.4	3341.5	3237.2	3086.8	3019.3	3031.6
37.5°	7726.2	7146.3	5879.0	4479.9	3642.2	3347.6	3185.0	3022.4	2899.6	2795.3	2764.6
40°	8545.5	7732.4	5857.6	4111.6	3350.7	3145.1	3025.4	2822.9	2684.8	2611.2	2626.5
42.5°	9266.6	8419.7	5768.6	3694.3	3086.8	3007.0	2872.0	2672.6	2537.6	2460.9	2454.7
45°	9874.1	8926.0	5599.8	3338.4	2865.9	2853.6	2697.1	2543.7	2436.3	2365.7	2396.4
47.5°	10435.6	9334.1	5345.1	2982.5	2663.4	2687.9	2537.6	2442.4	2374.9	2310.5	2307.4
50°	10638.1	9327.9	5121.2	2687.9	2500.7	2488.5	2482.3	2381.1	2310.5	2255.3	2279.8
52.5°	10975.6	9432.2	4878.7	2485.4	2353.5	2356.5	2378.0	2304.4	2224.6	2190.8	2221.5
55°	11460.5	9447.6	4344.8	2249.1	2230.7	2252.2	2252.2	2203.1	2135.6	2108.0	2092.6
56°	11064.6	8990.4	3896.9	2187.8	2169.4	2169.4	2227.7	2172.4	2089.6	2068.1	2049.7
57.5°	10205.5	7876.6	3261.7	2114.1	2086.5	2129.5	2160.2	2101.9	2025.1	1994.5	2012.9
60°	7038.9	5329.8	2451.6	1954.6	1954.6	2025.1	2049.7	1963.8	1930.0	1927.0	1902.4
62.5°	4108.6	3105.2	1917.7	1810.4	1816.5	1874.8	1893.2	1844.1	1801.1	1853.3	1877.9
65°	2178.6	1853.3	1644.7	1656.9	1660.0	1706.0	1785.8	1782.7	1779.7	1795.0	1798.1
67.5°	1577.2	1540.3	1494.3	1482.0	1488.2	1521.9	1601.7	1663.1	1660.0	1623.2	1595.6
70°	1405.3	1353.2	1325.5	1328.6	1304.1	1344.0	1408.4	1448.3	1377.7	1334.8	1316.3
72.5°	1169.1	1153.7	1135.3	1138.4	1089.3	1080.1	1006.4	1006.4	988.0	975.7	997.2
75°	892.9	886.8	896.0	880.6	828.5	773.2	730.3	690.4	629.0	604.5	592.2
77.5°	564.6	583.0	604.5	570.7	549.2	509.4	466.4	426.5	377.4	349.8	349.8
80°	383.5	398.9	414.2	408.1	383.5	346.7	313.0	270.0	236.3	214.8	211.7
82.5°	291.5	303.8	325.2	300.7	276.2	245.5	217.9	187.2	156.5	131.9	131.9
85°	104.3	119.7	131.9	144.2	153.4	156.5	135.0	110.5	89.0	70.6	67.5
87.5°	27.6	30.7	33.8	30.7	30.7	30.7	33.8	30.7	27.6	21.5	21.5
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)