

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: P531664

Luminaire Tested: **GALN-SA7A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22578 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

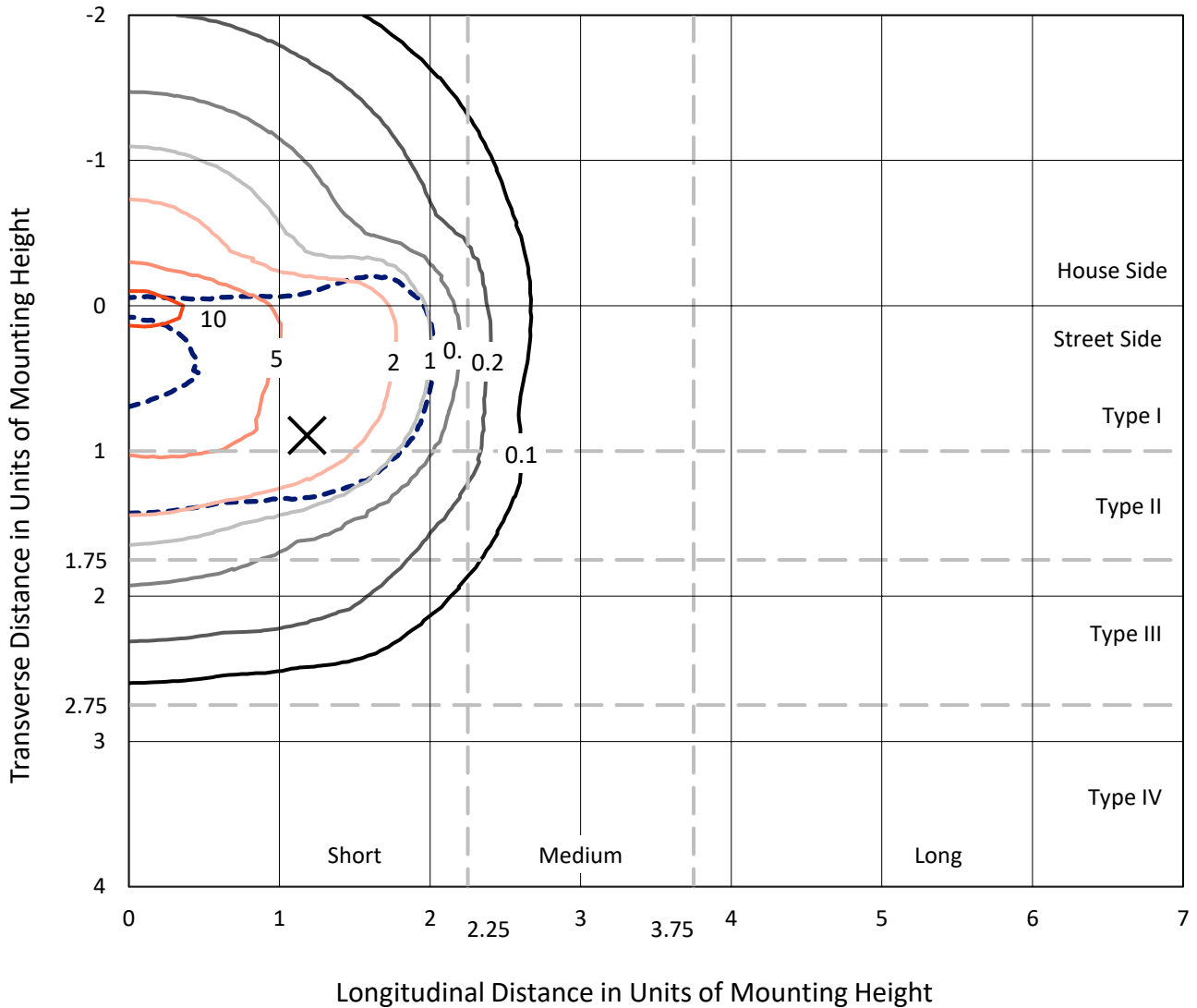
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

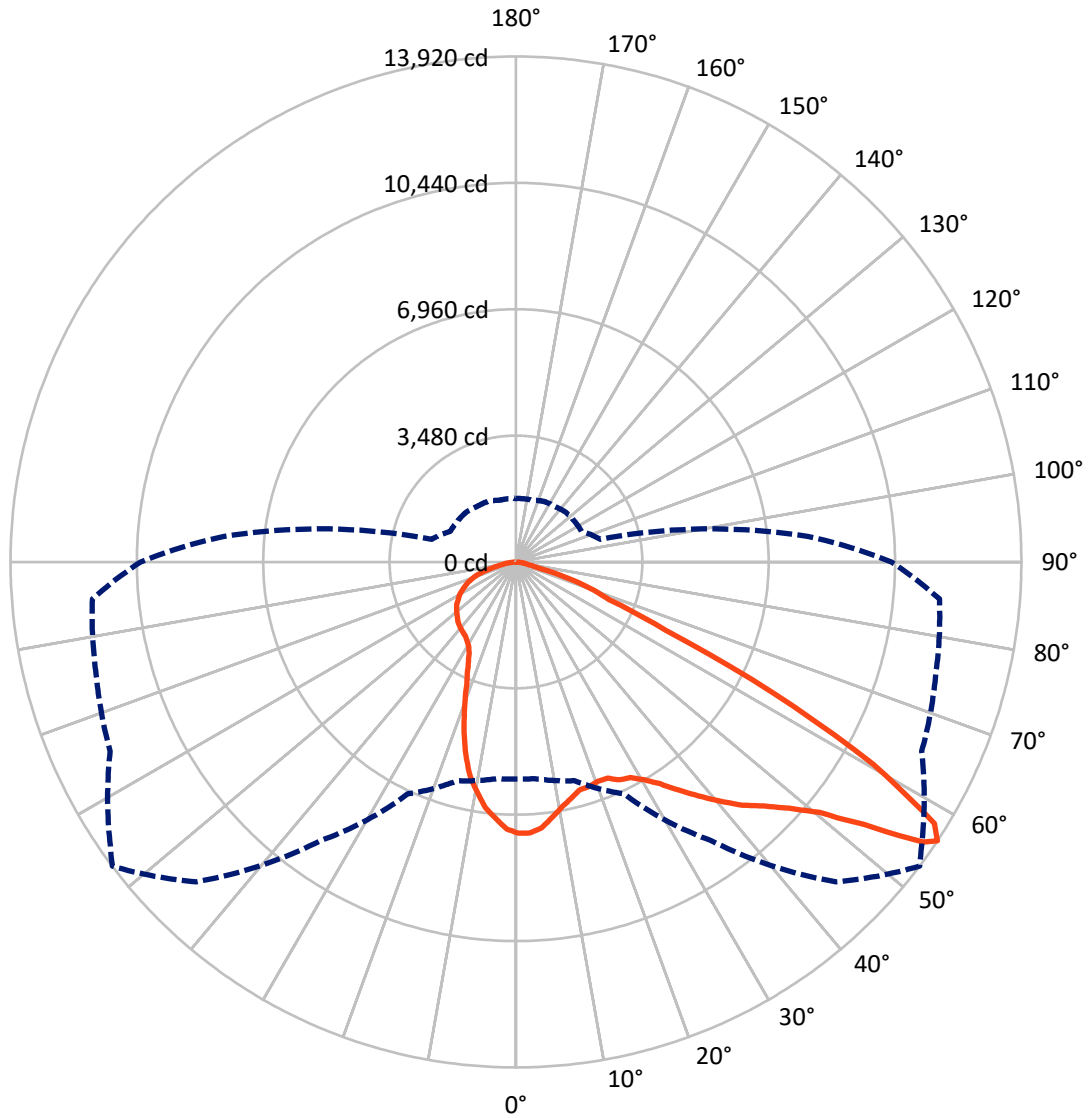
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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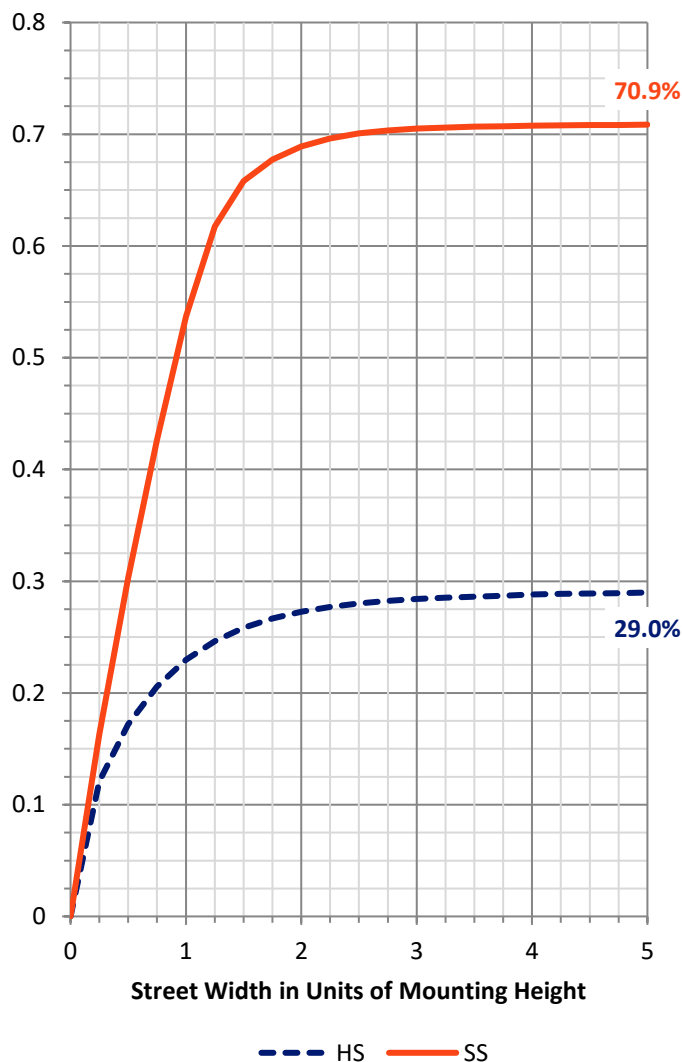
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6588.8	0.0	6588.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	15989.2	0.0	15989.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	22578.0	0.0	22578.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	661.3	2.9
10°-20°	1651.6	7.3
20°-30°	2435.4	10.8
30°-40°	3479.7	15.4
40°-50°	4789.4	21.2
50°-60°	5659.8	25.1
60°-70°	3016.3	13.4
70°-80°	765.2	3.4
80°-90°	119.3	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°	22578.0	100.0
0°-180°	22578.0	100.0

**Coefficient of Utilization**



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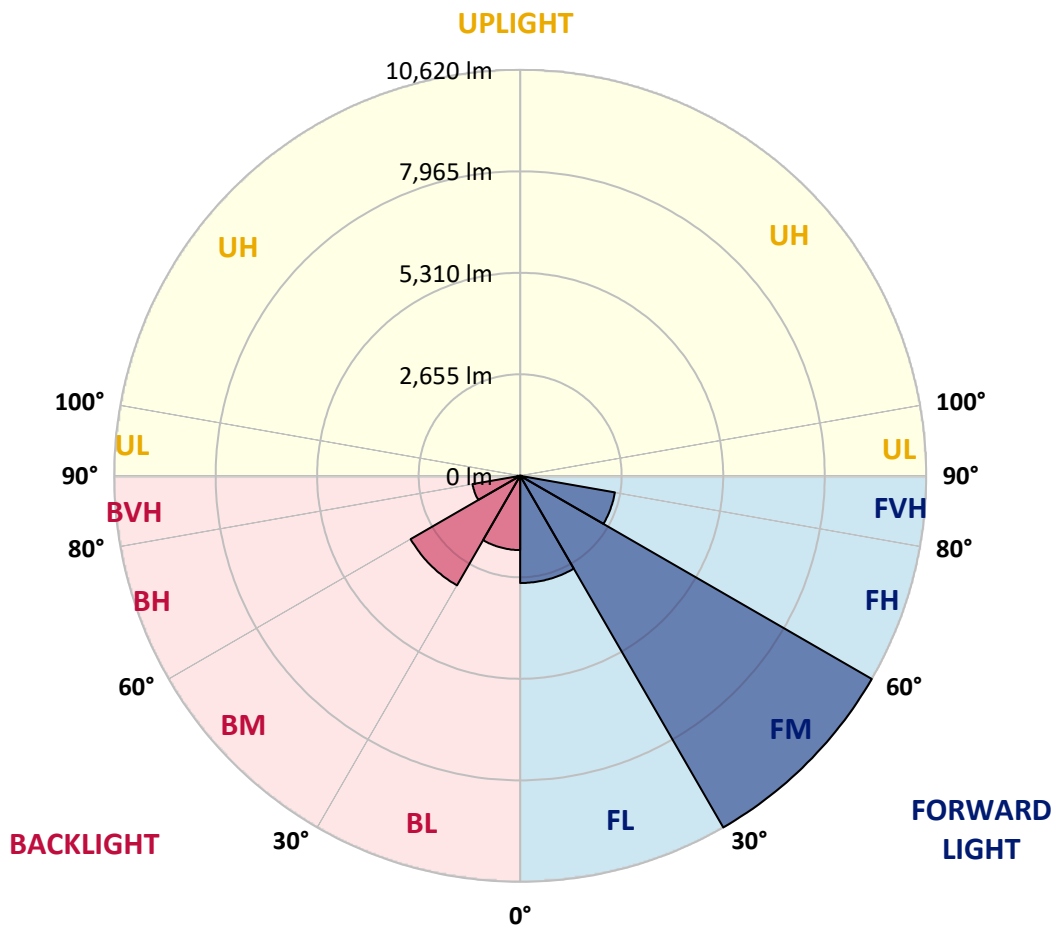
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2805.0	12.4			
FM (30°-60°)	10620.3	47.0			
FH (60°-80°)	2516.0	11.1			G2/5000
FVH (80°-90°)	48.0	0.2			G1/100
BL (0°-30°)	1943.3	8.6	B3/2500		
BM (30°-60°)	3308.7	14.7	B3/5000		
BH (60°-80°)	1265.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	71.4	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°	53°	55°	65°	75°	85°
0°	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7
2.5°	7377.0	7313.3	7350.9	7336.5	7455.2	7490.0	7472.6	7487.1	7553.7	7521.8	7455.2
5°	6893.3	6983.1	7000.5	7043.9	7113.4	7249.6	7356.7	7385.7	7417.6	7565.3	7550.8
7.5°	6453.1	6513.9	6482.0	6609.5	6760.1	6980.2	7110.5	7133.7	7426.2	7507.3	7568.2
10°	6175.0	6114.2	6259.0	6293.8	6464.7	6716.6	6873.0	6968.6	7235.1	7556.6	7594.2
12.5°	5917.2	5897.0	5983.9	6082.3	6273.5	6534.2	6693.5	6731.1	7142.4	7481.3	7658.0
15°	5726.1	5702.9	5789.8	5862.2	6085.2	6316.9	6519.7	6626.9	7041.0	7437.8	7602.9
17.5°	5575.5	5572.6	5621.8	5752.2	5981.0	6175.0	6502.3	6508.1	6988.9	7504.4	7649.3
20°	5566.8	5563.9	5572.6	5717.4	5925.9	6163.4	6447.3	6499.4	6988.9	7458.1	7652.2
22.5°	5639.2	5592.9	5645.0	5737.7	5888.3	6183.7	6467.6	6583.4	7156.9	7686.9	7782.5
25°	5755.1	5766.6	5795.6	5827.5	5914.4	6230.1	6647.1	6742.7	7353.8	7883.9	7962.1
27.5°	5966.5	5960.7	5972.3	5989.7	6065.0	6273.5	6719.5	6965.7	7765.1	8234.3	8156.1
30°	6276.4	6256.1	6302.5	6363.3	6293.8	6412.5	6959.9	7145.3	8147.4	8587.7	8373.4
32.5°	6557.3	6632.6	6719.5	6745.6	6661.6	6684.8	7278.5	7466.8	8466.0	9022.1	8639.8
35°	6907.8	6968.6	7084.5	7165.6	7151.1	7081.6	7713.0	7962.1	8926.6	9340.7	8920.8
37.5°	7249.6	7322.0	7513.1	7753.5	7620.3	7588.4	8176.4	8382.0	9068.5	9511.6	9126.4
40°	7799.9	7797.0	8127.2	8251.7	8370.5	8315.4	8657.2	8726.7	9143.8	9474.0	9132.2
42.5°	8445.8	8405.2	8741.2	8935.2	9088.8	9094.5	9158.3	9135.1	9178.5	9282.8	9071.4
45°	9059.8	9146.7	9485.6	9833.1	9986.6	10004.0	9581.1	9537.7	9239.4	9227.8	8955.5
47.5°	9809.9	9830.2	10108.3	10565.9	10922.1	10800.5	10128.5	10033.0	9505.8	9595.6	9149.6
50°	9853.4	10004.0	10253.1	10791.8	11886.6	11854.8	10838.1	10658.6	9934.5	10117.0	9691.2
52.5°	8943.9	8909.2	9204.6	10085.1	11814.2	12903.2	12014.1	11585.4	10855.5	10716.5	10568.8
55°	6815.1	6896.2	7156.9	8046.1	10258.9	12917.7	13615.8	13265.3	11840.3	11602.8	11431.9
56°	5978.1	5989.7	6235.8	7046.8	9361.0	12457.2	13919.9	13636.0	12329.8	11967.7	11707.1
57.5°	4955.7	4889.0	5016.5	5459.6	7901.2	11484.0	13586.8	13864.8	12903.2	12361.6	11999.6
60°	3901.4	3886.9	3834.8	3915.9	4993.3	8651.4	11310.3	11935.9	12845.3	11990.9	11492.7
62.5°	3186.0	3113.6	3217.8	3333.7	3469.8	5366.9	7947.6	8315.4	10198.1	9572.4	8634.0
65°	2470.6	2435.8	2566.2	2942.7	3023.8	3409.0	4527.0	4810.8	6021.5	5914.4	5207.6
67.5°	1700.2	1706.0	1818.9	2392.4	2803.7	2768.9	2771.8	2919.5	3142.5	2334.5	2033.2
70°	1077.4	1074.5	1135.4	1540.9	2256.3	2279.4	2163.6	2120.1	2010.1	1216.5	1288.9
72.5°	692.2	672.0	703.8	851.5	1167.2	1349.7	1390.2	1416.3	1164.3	955.8	1036.9
75°	391.0	370.7	359.1	396.8	460.5	532.9	585.1	602.4	674.9	724.1	767.5
77.5°	118.8	107.2	130.3	173.8	228.8	307.0	373.6	385.2	454.7	512.7	556.1
80°	52.1	57.9	81.1	115.9	162.2	217.2	263.6	280.9	327.3	370.7	382.3
82.5°	31.9	34.8	55.0	78.2	113.0	153.5	188.3	194.1	240.4	275.2	283.8
85°	11.6	14.5	29.0	46.3	72.4	98.5	98.5	107.2	98.5	98.5	107.2
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	11.6	11.6	14.5	17.4	20.3
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°	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7	7469.7
2.5°	7490.0	7475.5	7452.3	7368.3	7359.6	7333.6	7188.7	7165.6	7188.7	7119.2	7125.0
5°	7475.5	7518.9	7345.1	7261.2	7104.8	6991.8	6861.5	6794.8	6676.1	6600.8	6684.8
7.5°	7539.2	7521.8	7304.6	7122.1	6887.5	6600.8	6372.0	6241.6	6033.1	5975.2	6018.6
10°	7516.0	7423.4	7168.5	6928.1	6484.9	6232.9	5862.2	5503.1	5306.1	5204.7	5190.3
12.5°	7484.2	7458.1	7032.3	6618.2	6151.9	5621.8	5100.5	4761.6	4440.1	4301.1	4321.4
15°	7521.8	7301.7	6777.5	6253.2	5633.4	4938.3	4376.4	3939.0	3716.0	3626.2	3626.2
17.5°	7504.4	7226.4	6655.8	5844.8	5059.9	4237.4	3620.4	3356.9	3264.2	3264.2	3290.3
20°	7513.1	7275.6	6409.6	5436.5	4382.2	3568.3	3119.4	3023.8	3064.3	3078.8	3093.3
22.5°	7562.4	7113.4	6169.2	4987.5	3753.7	3052.8	2832.6	2835.5	2907.9	2986.1	2971.7
25°	7623.2	7049.7	5876.7	4541.5	3272.9	2800.8	2731.3	2722.6	2777.6	2818.2	2823.9
27.5°	7571.1	6939.7	5578.4	3985.4	2879.0	2632.8	2618.3	2624.1	2641.5	2722.6	2696.5
30°	7741.9	6971.5	5204.7	3519.1	2661.7	2577.8	2560.4	2551.7	2577.8	2600.9	2580.6
32.5°	7953.4	6858.6	4926.7	3070.1	2554.6	2537.2	2502.4	2490.9	2505.3	2482.2	2493.8
35°	8046.1	6838.3	4564.7	2748.6	2470.6	2456.1	2435.8	2432.9	2435.8	2415.6	2398.2
37.5°	8098.2	6933.9	4150.5	2600.9	2418.5	2432.9	2386.6	2380.8	2328.7	2340.3	2348.9
40°	8188.0	6786.2	3814.5	2459.0	2386.6	2357.6	2317.1	2308.4	2273.6	2253.4	2273.6
42.5°	8057.7	6742.7	3484.3	2398.2	2340.3	2308.4	2279.4	2230.2	2218.6	2201.2	2189.6
45°	7953.4	6493.6	3188.9	2322.9	2285.2	2267.8	2212.8	2160.7	2117.2	2134.6	2108.5
47.5°	8031.6	6406.7	2896.4	2259.2	2209.9	2189.6	2134.6	2094.1	2050.6	2030.3	2024.6
50°	8344.4	6568.9	2650.2	2212.8	2146.2	2134.6	2062.2	2015.9	1975.3	1960.8	1966.6
52.5°	9091.6	7012.1	2482.2	2117.2	2085.4	2033.2	1992.7	1934.8	1908.7	1862.4	1891.3
55°	10038.8	7733.3	2438.7	2027.4	2010.1	1963.7	1908.7	1865.3	1816.0	1778.4	1769.7
56°	10342.9	8077.9	2404.0	1992.7	1963.7	1937.7	1865.3	1839.2	1761.0	1752.3	1746.5
57.5°	10589.1	8382.0	2409.8	1926.1	1897.1	1873.9	1830.5	1766.8	1714.6	1682.8	1697.3
60°	10033.0	7846.2	2299.7	1824.7	1818.9	1775.5	1714.6	1685.7	1622.0	1584.3	1575.6
62.5°	7458.1	5326.4	1865.3	1694.4	1691.5	1645.1	1575.6	1543.8	1532.2	1480.0	1480.0
65°	4295.3	3339.5	1613.3	1587.2	1564.0	1517.7	1448.2	1422.1	1393.1	1375.8	1361.3
67.5°	1833.4	1732.0	1465.6	1462.7	1436.6	1378.7	1309.2	1268.6	1230.9	1196.2	1213.6
70°	1329.4	1349.7	1323.6	1309.2	1277.3	1204.9	1144.1	1094.8	1036.9	1013.7	1031.1
72.5°	1054.3	1097.7	1135.4	1138.3	1100.6	1016.6	950.0	883.4	819.7	787.8	802.3
75°	799.4	828.4	866.0	874.7	819.7	761.7	698.0	628.5	579.3	541.6	547.4
77.5°	576.4	570.6	605.3	599.5	573.5	532.9	475.0	411.3	356.3	321.5	324.4
80°	393.9	402.6	422.9	420.0	388.1	362.0	318.6	266.5	225.9	197.0	191.2
82.5°	275.2	289.6	307.0	292.5	266.5	240.4	208.5	170.9	139.0	115.9	110.1
85°	98.5	113.0	130.3	139.0	147.7	141.9	118.8	95.6	69.5	57.9	55.0
87.5°	20.3	23.2	26.1	26.1	26.1	23.2	20.3	20.3	17.4	8.7	8.7
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)