

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: P530870

Luminaire Tested: **GALN-SA6A-760-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530870  
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-SA6A-760-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA 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: 23121 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

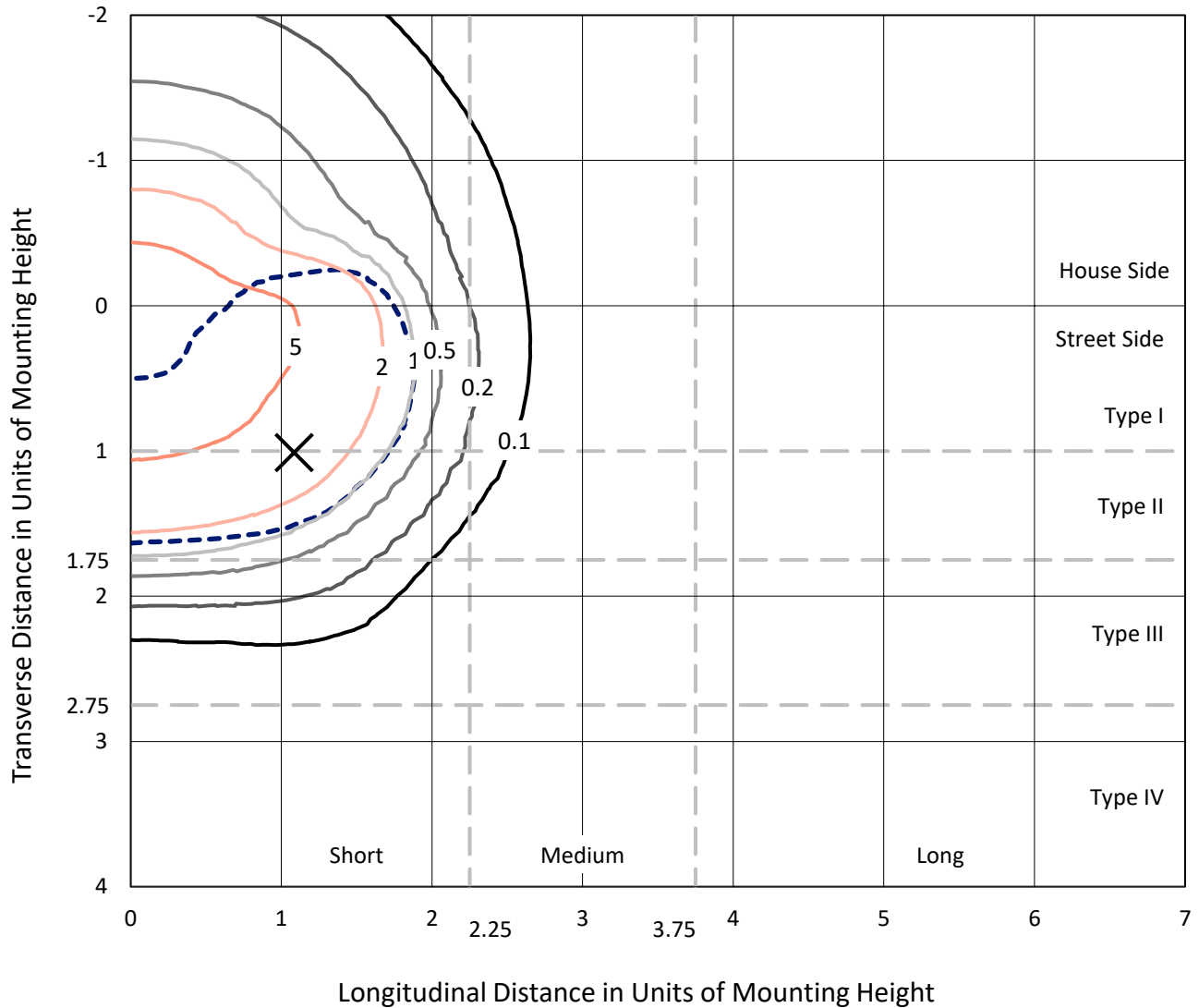
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

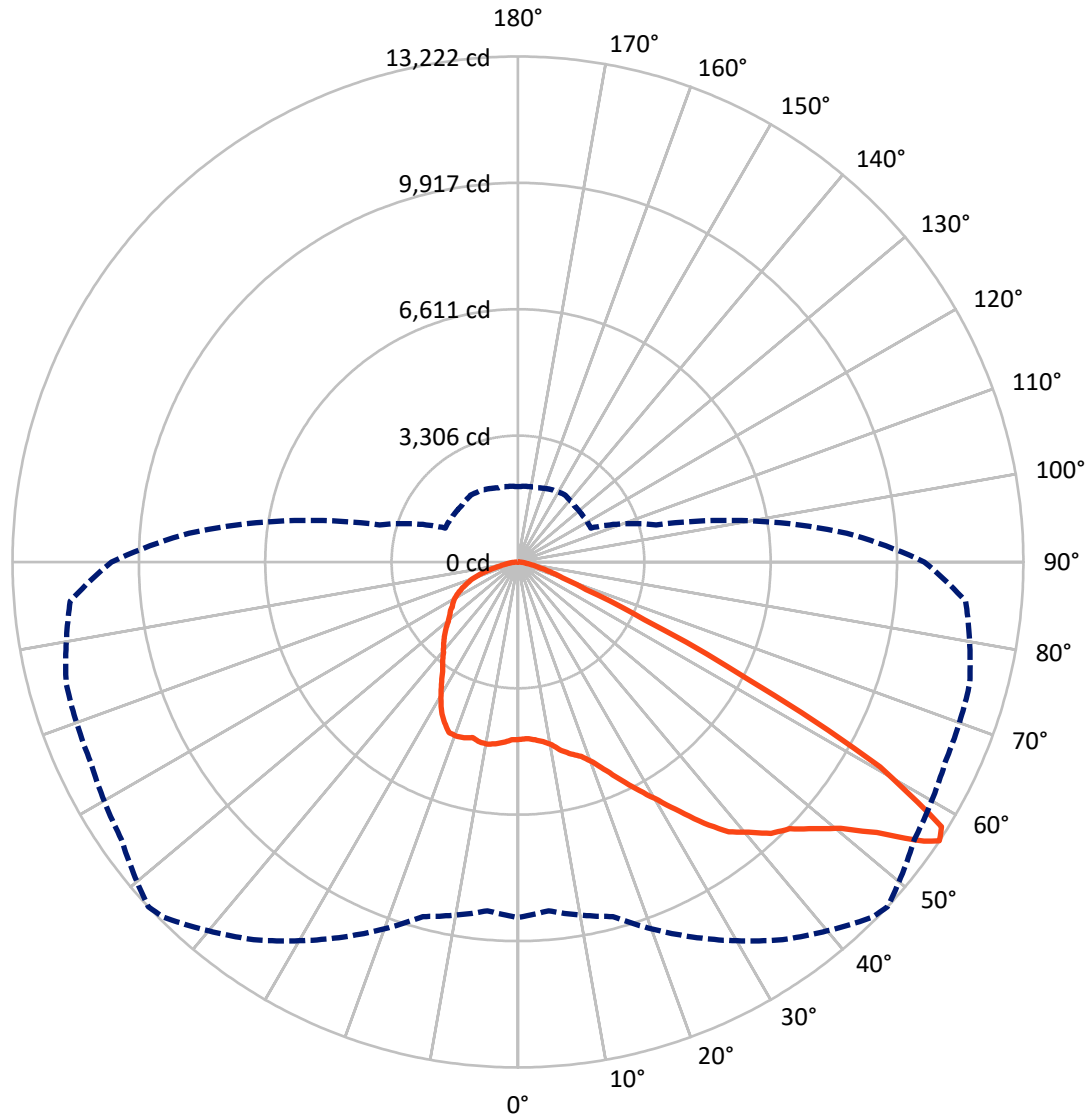
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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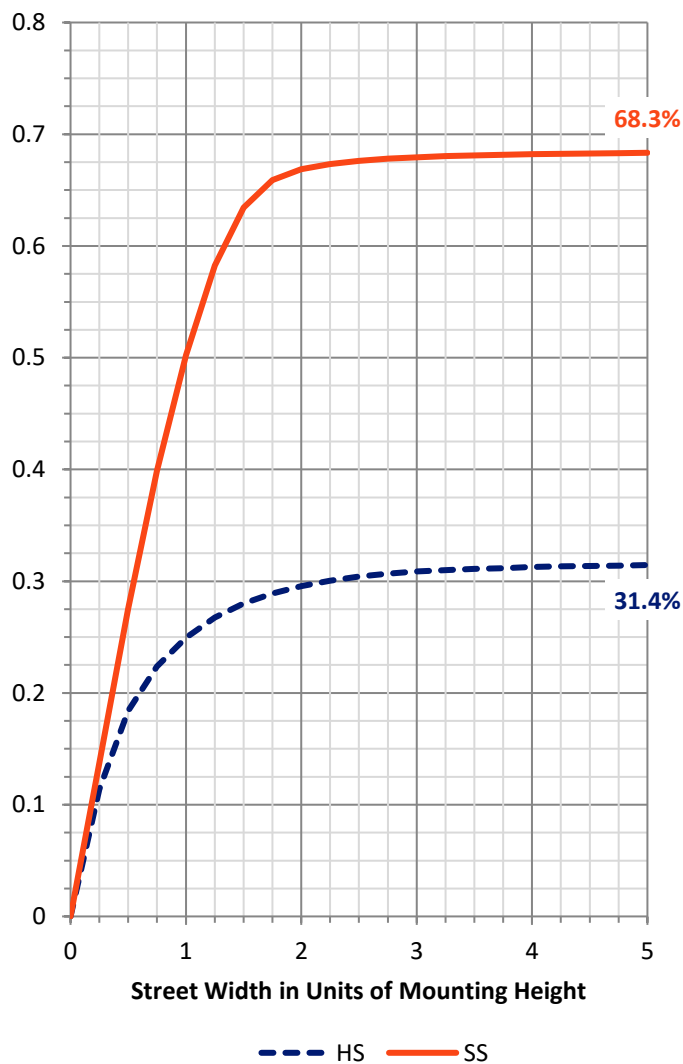
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7326.8	0.0	7326.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15794.2	0.0	15794.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	23121.0	0.0	23121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.5	2.0
10°-20°	1427.5	6.2
20°-30°	2523.5	10.9
30°-40°	3790.1	16.4
40°-50°	5201.6	22.5
50°-60°	6197.0	26.8
60°-70°	2652.0	11.5
70°-80°	750.5	3.2
80°-90°	126.3	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°	23121.0	100.0
0°-180°	23121.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P530870

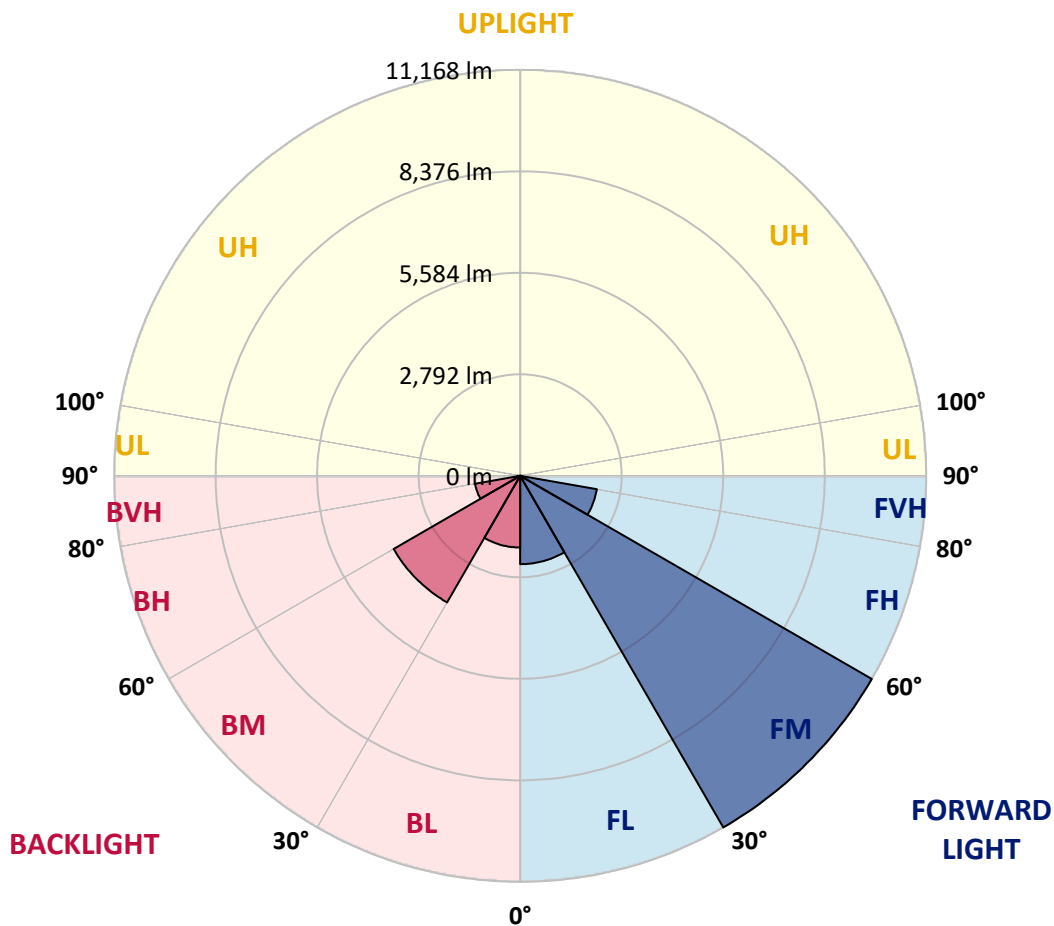
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.8	10.5			
FM (30°-60°)	11168.0	48.3			
FH (60°-80°)	2141.8	9.3			G2/5000
FVH (80°-90°)	53.6	0.2			G1/100
BL (0°-30°)	1972.7	8.5	B3/2500		
BM (30°-60°)	4020.8	17.4	B3/5000		
BH (60°-80°)	1260.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	72.7	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°	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3
2.5°	4626.6	4617.8	4611.9	4659.1	4641.4	4644.3	4626.6	4644.3	4656.1	4629.6	4667.9
5°	4617.8	4644.3	4620.7	4635.5	4673.8	4662.0	4673.8	4709.2	4700.3	4691.5	4679.7
7.5°	4700.3	4703.3	4721.0	4726.9	4738.7	4726.9	4744.6	4777.0	4768.2	4718.0	4723.9
10°	4818.3	4824.2	4827.1	4859.6	4880.2	4883.2	4862.5	4833.0	4830.1	4897.9	4850.7
12.5°	4953.9	4939.2	4974.6	4986.4	5010.0	5036.5	5063.0	5001.1	5039.4	5042.4	4986.4
15°	5151.5	5166.2	5125.0	5125.0	5133.8	5136.8	5210.5	5181.0	5175.1	5142.6	5166.2
17.5°	5446.4	5346.1	5343.2	5301.9	5296.0	5319.6	5346.1	5369.7	5449.3	5384.4	5257.6
20°	5661.6	5685.2	5599.7	5549.6	5558.4	5611.5	5585.0	5691.1	5747.1	5641.0	5517.1
22.5°	6042.0	5962.4	5983.0	5871.0	5879.8	5935.9	5932.9	6042.0	6074.5	5906.4	5726.5
25°	6298.6	6277.9	6295.6	6207.2	6218.9	6263.2	6333.9	6513.8	6460.7	6275.0	5859.2
27.5°	6673.1	6631.8	6617.0	6584.6	6572.8	6690.8	6773.3	6965.0	6926.7	6655.4	6095.1
30°	7056.4	7029.9	7044.6	6911.9	6959.1	7209.7	7233.3	7495.8	7478.1	7000.4	6357.5
32.5°	7321.8	7336.5	7363.1	7289.3	7498.7	7699.2	7778.8	8076.7	8091.4	7593.1	6864.7
35°	7749.4	7699.2	7714.0	7799.5	7896.8	8262.4	8392.2	8589.8	8713.6	8215.3	7351.3
37.5°	8017.7	8070.8	8008.8	8144.5	8398.1	8837.5	8955.4	9158.9	9288.6	8828.6	8014.7
40°	8436.4	8350.9	8395.1	8492.4	8751.9	9324.0	9291.6	9500.9	9542.2	9350.5	8634.0
42.5°	8887.6	8846.3	8784.4	9005.5	9223.7	9639.5	9704.4	9607.1	9816.4	9860.7	9518.6
45°	9427.2	9477.3	9486.2	9492.1	9683.7	10046.4	9958.0	9872.5	10114.3	10435.7	10067.1
47.5°	9928.5	9769.3	9884.3	10043.5	10314.8	10317.7	10420.9	10217.5	10474.0	10760.0	10562.5
50°	10096.6	10019.9	10173.2	10474.0	10892.7	10937.0	10948.8	10659.8	10792.5	11019.5	10733.5
52.5°	10031.7	10005.2	10397.3	10863.3	11476.6	11700.7	11759.7	11402.9	11476.6	11373.4	11111.0
55°	9722.1	9801.7	10196.8	11146.3	12087.0	12780.0	12892.0	12440.8	11972.0	12051.6	11762.6
56°	9297.5	9158.9	9601.2	10824.9	12060.5	13130.9	13222.3	12659.1	12340.6	12237.4	11756.7
57.5°	7887.9	7708.1	8289.0	9739.8	11391.1	12998.2	13066.0	12750.5	12278.7	12069.3	10898.6
60°	4617.8	4706.2	5443.4	6717.3	8787.3	10656.8	10883.9	11113.9	10798.4	9860.7	8112.1
62.5°	2229.3	2173.2	2701.1	3851.1	5355.0	6802.8	6735.0	7380.8	7734.6	7006.3	5122.0
65°	1167.7	1161.8	1474.4	2102.5	2942.9	3573.9	3635.8	3983.8	4470.3	3609.3	2600.8
67.5°	858.1	881.7	1038.0	1477.3	1893.1	1931.4	1922.6	2096.6	2143.8	1813.5	1598.2
70°	672.3	684.1	799.1	1123.5	1409.5	1262.1	1235.5	1256.2	1394.8	1453.7	1383.0
72.5°	486.5	498.3	595.7	757.8	881.7	861.0	878.7	993.7	1164.8	1226.7	1153.0
75°	324.4	333.2	386.3	463.0	521.9	563.2	595.7	728.3	887.6	923.0	887.6
77.5°	224.1	233.0	268.3	327.3	333.2	359.7	371.5	433.5	530.8	575.0	551.4
80°	126.8	126.8	144.5	168.1	206.4	241.8	247.7	297.8	342.1	371.5	377.4
82.5°	59.0	61.9	76.7	103.2	135.6	168.1	174.0	206.4	238.9	268.3	277.2
85°	29.5	32.4	44.2	61.9	82.6	100.3	97.3	100.3	106.2	100.3	103.2
87.5°	8.8	8.8	11.8	14.7	11.8	14.7	14.7	17.7	20.6	23.6	26.5
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°	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3	4644.3
2.5°	4670.8	4679.7	4620.7	4676.7	4656.1	4653.2	4694.4	4688.5	4703.3	4697.4	4662.0
5°	4673.8	4653.2	4715.1	4659.1	4685.6	4741.6	4703.3	4791.7	4747.5	4777.0	4712.1
7.5°	4765.2	4771.1	4759.3	4782.9	4771.1	4797.6	4777.0	4797.6	4762.3	4765.2	4824.2
10°	4844.8	4827.1	4847.8	4818.3	4838.9	4830.1	4782.9	4768.2	4779.9	4765.2	4803.5
12.5°	4992.3	4959.8	4945.1	4909.7	4886.1	4797.6	4723.9	4682.6	4738.7	4747.5	4729.8
15°	5142.6	5145.6	5077.8	4998.2	4850.7	4718.0	4735.7	4750.5	4750.5	4774.1	4729.8
17.5°	5237.0	5237.0	5175.1	5015.9	4865.5	4788.8	4771.1	4723.9	4682.6	4676.7	4673.8
20°	5402.1	5352.0	5210.5	5012.9	4859.6	4824.2	4691.5	4579.4	4493.9	4464.4	4461.5
22.5°	5590.9	5464.1	5266.5	5018.8	4850.7	4800.6	4552.9	4384.8	4231.5	4166.6	4175.5
25°	5764.8	5561.4	5298.9	4992.3	4818.3	4576.5	4299.3	4066.3	3907.1	3854.0	3827.5
27.5°	5885.7	5664.6	5298.9	5015.9	4697.4	4325.8	4042.8	3744.9	3606.3	3571.0	3576.9
30°	6047.9	5794.3	5390.3	4965.7	4455.6	4001.5	3662.4	3467.7	3385.2	3355.7	3376.3
32.5°	6428.3	6133.4	5517.1	4844.8	4169.6	3677.1	3402.9	3293.8	3172.9	3113.9	3093.3
35°	6841.1	6454.8	5641.0	4641.4	3848.1	3382.2	3211.2	3110.9	2966.5	2901.6	2913.4
37.5°	7425.0	6867.7	5649.8	4305.2	3500.2	3217.1	3060.8	2904.5	2786.6	2686.3	2656.8
40°	8212.3	7430.9	5629.2	3951.3	3220.1	3022.5	2907.5	2712.9	2580.2	2509.4	2524.1
42.5°	8905.3	8091.4	5543.7	3550.3	2966.5	2889.8	2760.0	2568.4	2438.6	2364.9	2359.0
45°	9489.1	8578.0	5381.5	3208.3	2754.1	2742.4	2592.0	2444.5	2341.3	2273.5	2303.0
47.5°	10028.8	8970.1	5136.8	2866.2	2559.5	2583.1	2438.6	2347.2	2282.3	2220.4	2217.5
50°	10223.4	8964.2	4921.5	2583.1	2403.2	2391.4	2385.6	2288.2	2220.4	2167.3	2190.9
52.5°	10547.7	9064.5	4688.5	2388.5	2261.7	2264.7	2285.3	2214.5	2137.9	2105.4	2134.9
55°	11013.6	9079.3	4175.5	2161.4	2143.8	2164.4	2164.4	2117.2	2052.3	2025.8	2011.1
56°	10633.3	8639.9	3744.9	2102.5	2084.8	2084.8	2140.8	2087.7	2008.1	1987.5	1969.8
57.5°	9807.6	7569.5	3134.5	2031.7	2005.2	2046.4	2075.9	2019.9	1946.2	1916.7	1934.4
60°	6764.5	5122.0	2356.1	1878.4	1878.4	1946.2	1969.8	1887.2	1854.8	1851.8	1828.2
62.5°	3948.4	2984.2	1843.0	1739.8	1745.7	1801.7	1819.4	1772.2	1730.9	1781.1	1804.6
65°	2093.6	1781.1	1580.5	1592.3	1595.3	1639.5	1716.2	1713.2	1710.3	1725.0	1728.0
67.5°	1515.7	1480.3	1436.0	1424.3	1430.2	1462.6	1539.3	1598.2	1595.3	1559.9	1533.4
70°	1350.5	1300.4	1273.9	1276.8	1253.2	1291.6	1353.5	1391.8	1324.0	1282.7	1265.0
72.5°	1123.5	1108.7	1091.0	1094.0	1046.8	1038.0	967.2	967.2	949.5	937.7	958.3
75°	858.1	852.2	861.0	846.3	796.2	743.1	701.8	663.5	604.5	580.9	569.1
77.5°	542.6	560.3	580.9	548.5	527.8	489.5	448.2	409.9	362.7	336.2	336.2
80°	368.6	383.3	398.1	392.2	368.6	333.2	300.8	259.5	227.1	206.4	203.5
82.5°	280.1	291.9	312.6	289.0	265.4	235.9	209.4	179.9	150.4	126.8	126.8
85°	100.3	115.0	126.8	138.6	147.4	150.4	129.7	106.2	85.5	67.8	64.9
87.5°	26.5	29.5	32.4	29.5	29.5	29.5	32.4	29.5	26.5	20.6	20.6
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)