

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: P648088

Luminaire Tested: **GALN-SA8A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26091.1 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

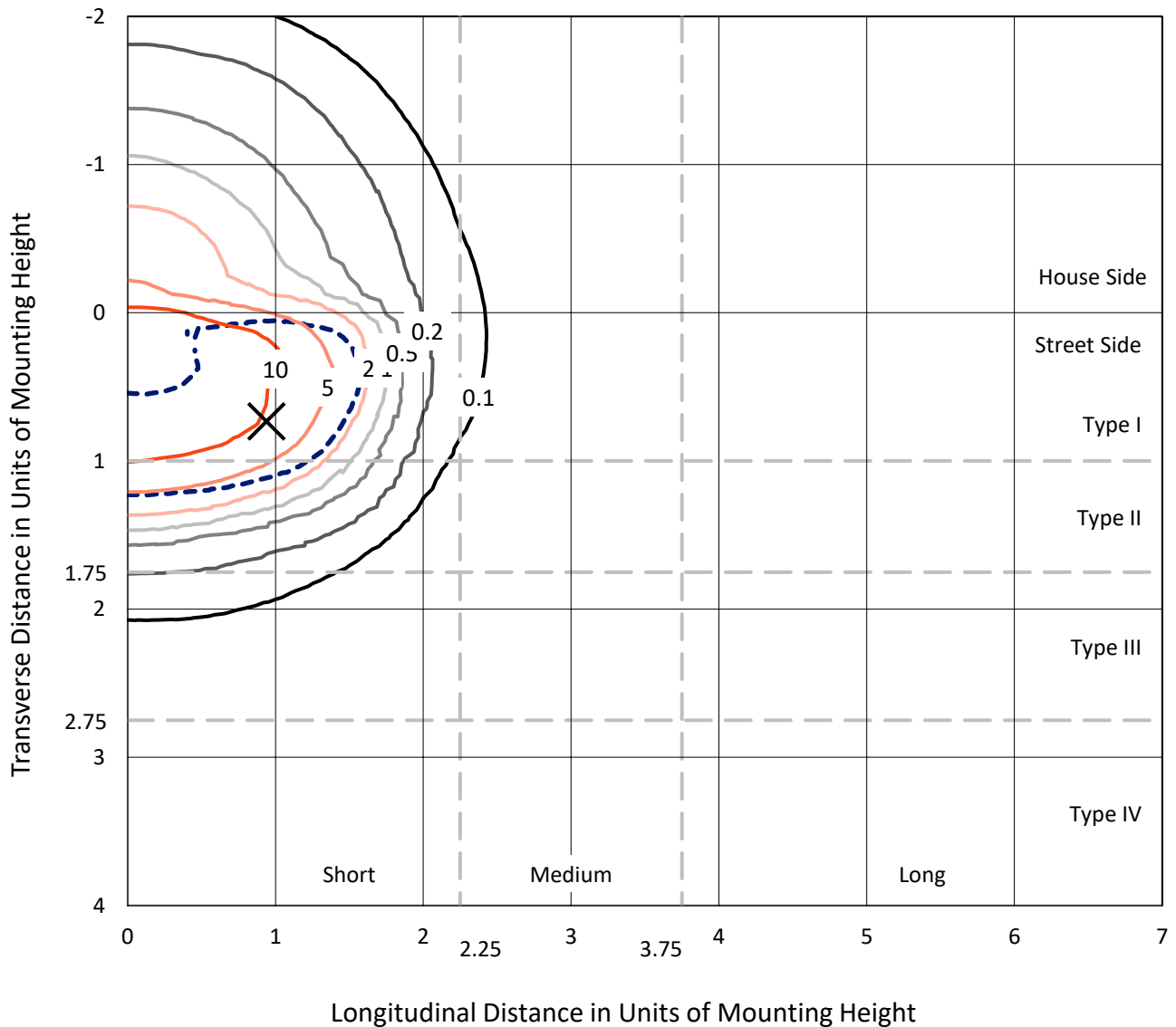
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

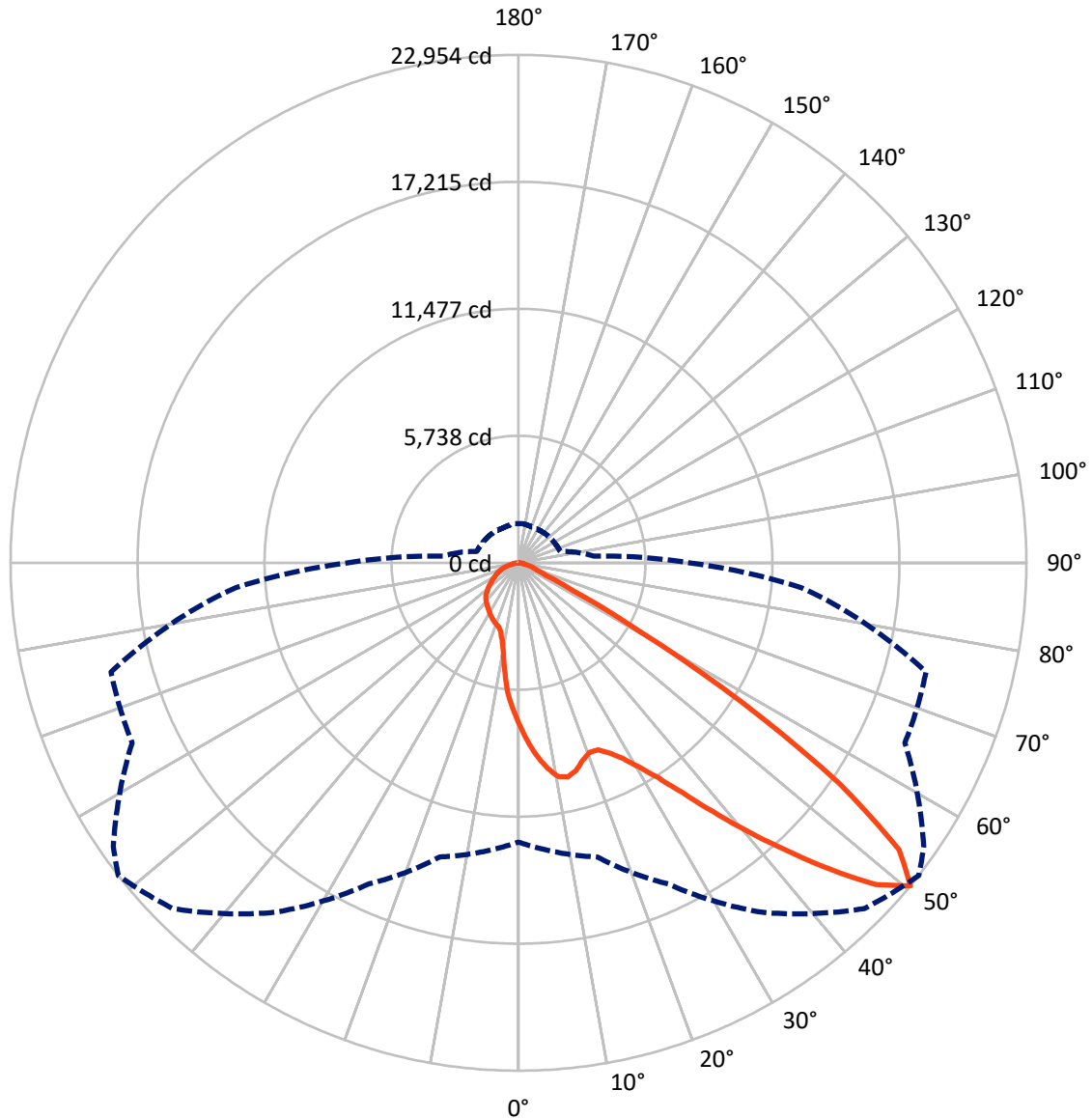
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4904.5	0.0	4904.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	21186.6	0.0	21186.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	26091.1	0.0	26091.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.9	2.6
10°-20°	1816.9	7.0
20°-30°	3060.5	11.7
30°-40°	5135.7	19.7
40°-50°	7856.4	30.1
50°-60°	5727.9	22.0
60°-70°	1274.8	4.9
70°-80°	459.8	1.8
80°-90°	81.4	0.3
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°	26091.1	100.0
0°-180°	26091.1	100.0

**Coefficient of Utilization**



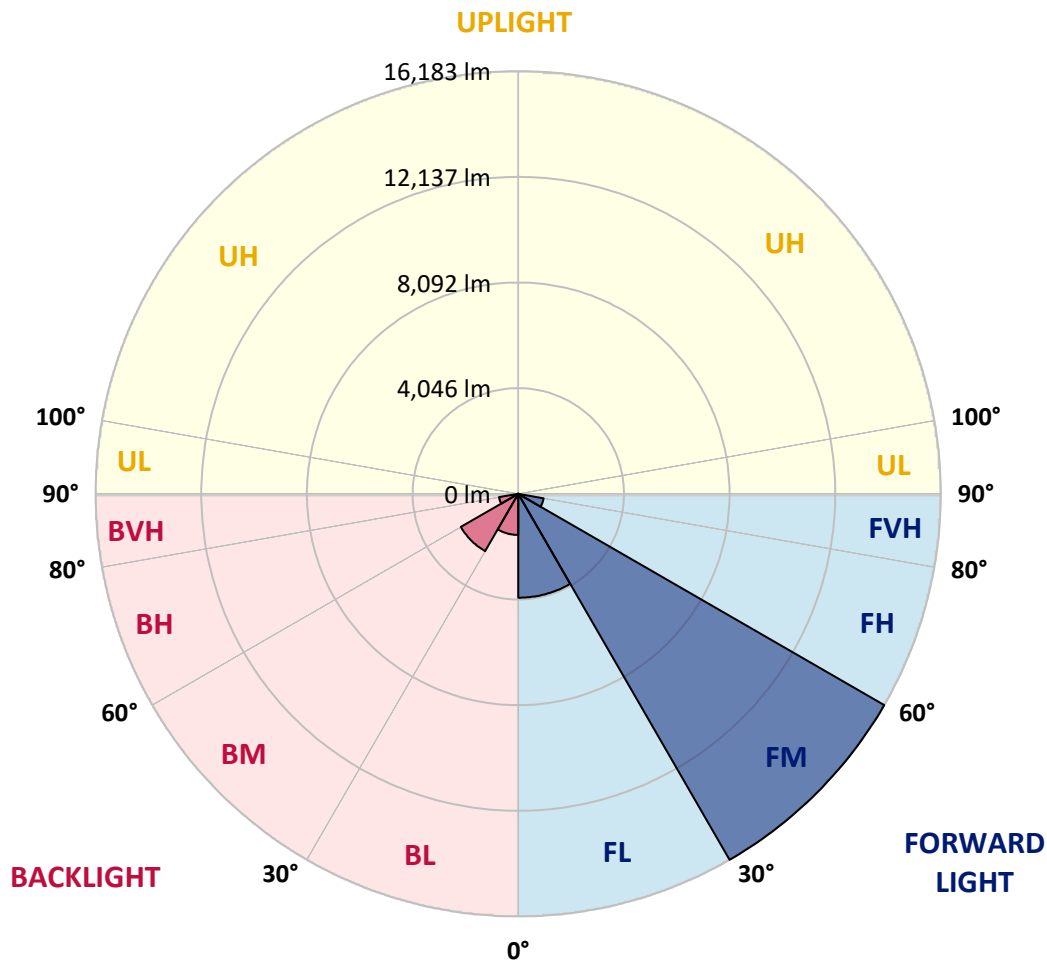
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3979.8	15.3			
FM (30°-60°)	16183.0	62.0			
FH (60°-80°)	987.3	3.8			G1/1800
FVH (80°-90°)	36.5	0.1			G1/100
BL (0°-30°)	1575.4	6.0	B3/2500		
BM (30°-60°)	2537.0	9.7	B3/5000		
BH (60°-80°)	747.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	44.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6
2.5°	8659.6	8492.9	8511.8	8392.3	8263.4	8225.6	8093.6	7967.8	7873.5	7672.2	7486.7
5°	9464.5	9414.2	9338.8	9244.4	9146.9	8908.0	8772.7	8615.5	8269.7	7958.3	7650.2
7.5°	9580.9	9571.4	9612.3	9612.3	9646.9	9555.7	9363.9	9253.9	8886.0	8379.7	7807.4
10°	8763.3	8791.6	8989.7	9247.5	9606.0	9854.4	9823.0	9794.7	9392.2	8700.5	7992.9
12.5°	8112.4	8049.6	8165.9	8386.0	8923.7	9524.3	9929.8	9933.1	9829.2	9212.9	8128.2
15°	7744.6	7788.6	7820.1	7923.8	8329.4	9024.3	9738.1	9948.7	10404.7	9574.6	8342.0
17.5°	7980.4	7832.6	7826.3	7851.5	8059.0	8581.0	9382.8	9744.4	10719.1	10039.9	8606.1
20°	8288.5	8285.4	8197.3	8165.9	8162.8	8628.1	9150.1	9640.6	10885.7	10643.6	8873.3
22.5°	8829.3	8829.3	8684.7	8615.5	8467.8	8848.2	9181.5	9514.9	11162.4	11058.7	9002.3
25°	9735.0	9587.1	9338.8	9168.9	9084.1	9219.3	9514.9	9813.6	11404.6	11498.9	9269.5
27.5°	10571.4	10338.7	10216.0	9923.6	9810.4	9731.8	10002.2	10304.0	11687.6	12184.4	9414.2
30°	11520.9	11480.0	11259.9	10882.6	10602.8	10458.1	10706.5	11005.2	12206.4	12885.6	9747.5
32.5°	13218.9	12847.9	12549.1	12086.9	11631.0	11322.8	11568.1	11766.2	13068.0	13618.2	10112.3
35°	15052.1	14932.6	14416.9	13583.6	12885.6	12608.9	12753.5	12901.3	14071.0	14737.6	10725.4
37.5°	16853.8	16690.3	16265.8	15564.6	14715.6	14152.7	14256.6	14429.4	15196.7	16246.9	11473.8
40°	18149.2	17948.0	17734.2	17630.4	16787.8	16017.4	15957.6	16001.6	16718.5	17661.9	12303.9
42.5°	18243.6	18492.0	18558.0	18976.2	18778.1	18146.1	17778.2	17787.6	18171.2	19061.1	13143.4
45°	18045.5	17815.9	18303.3	19444.7	20098.7	20394.3	19774.9	19696.3	19070.5	19872.4	13561.6
47.5°	15967.1	16030.0	16853.8	18658.7	20548.4	21869.0	21724.4	21463.4	19551.6	19844.0	13495.6
50°	12621.5	13001.9	13766.0	16014.2	19290.6	22101.7	22953.8	22350.1	19265.5	19064.2	12822.7
52.5°	8404.9	8562.1	9065.2	11967.5	15511.2	19756.0	21538.8	21677.2	19001.4	18042.4	11970.6
55°	3741.8	3729.2	4436.7	6251.0	9731.8	15033.2	17598.9	18441.7	17985.7	17001.5	11140.4
57.5°	1584.8	1638.2	1927.5	2701.0	4785.7	9071.4	11923.4	12662.4	13832.0	13961.0	8546.4
60°	1072.2	1078.5	1157.1	1352.1	2003.0	4260.6	6254.1	7140.8	7977.2	7920.7	4534.2
62.5°	842.7	864.7	924.4	1003.0	1188.6	1933.8	2798.4	3292.1	3345.6	2814.2	1719.9
65°	720.0	723.2	782.9	849.0	930.8	1125.7	1349.0	1374.1	1389.8	1339.5	1264.0
67.5°	594.3	600.6	647.8	723.2	798.7	861.5	924.4	955.9	1028.2	1169.7	1150.9
70°	471.7	481.1	521.9	584.8	654.0	691.8	770.4	798.7	864.7	974.8	1018.8
72.5°	358.5	361.6	396.2	440.2	503.1	540.8	606.8	638.3	682.3	776.7	817.5
75°	257.8	267.2	292.5	314.5	323.8	349.1	411.9	446.5	509.4	550.3	553.4
77.5°	135.2	141.5	147.8	147.8	179.2	226.4	267.2	286.1	330.2	361.6	345.9
80°	53.5	56.6	72.3	97.5	125.7	163.5	191.8	201.2	239.0	257.8	267.2
82.5°	31.5	34.6	47.1	69.1	91.2	116.4	138.4	147.8	173.0	195.0	201.2
85°	15.7	18.9	28.3	44.0	59.7	72.3	69.1	66.0	66.0	62.9	66.0
87.5°	6.3	6.3	9.4	9.4	9.4	12.6	15.7	15.7	15.7	18.9	18.9
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°	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6	7354.6
2.5°	7364.1	7238.3	7122.0	6908.2	6675.5	6609.5	6339.0	6241.5	6172.4	6090.6	6065.4
5°	7401.9	7235.2	6861.0	6430.2	6087.5	5647.2	5358.0	5046.7	4820.3	4763.7	4748.0
7.5°	7480.5	7194.3	6549.7	5898.8	5197.6	4600.2	4144.3	3899.0	3682.1	3669.5	3647.4
10°	7568.5	7071.7	6210.1	5188.2	4292.0	3738.7	3465.1	3358.2	3304.7	3292.1	3285.9
12.5°	7640.8	7046.5	5829.7	4496.5	3650.6	3317.3	3235.5	3226.1	3248.1	3254.4	3267.0
15°	7672.2	6945.9	5370.6	3877.0	3251.3	3128.6	3163.2	3201.0	3216.6	3257.6	3226.1
17.5°	7732.0	6817.0	4804.6	3386.5	3028.0	3050.0	3109.8	3153.8	3179.0	3207.2	3166.4
20°	7763.4	6700.6	4273.2	3094.0	2949.4	2990.3	3072.0	3106.6	3138.1	3150.6	3103.5
22.5°	7735.1	6461.6	3804.7	2858.2	2873.9	2927.4	2999.8	3037.4	3018.6	2968.3	2940.0
25°	7659.7	6125.2	3317.3	2707.3	2767.0	2861.4	2917.9	2889.7	2855.1	2826.8	2817.3
27.5°	7656.5	5713.3	2965.1	2568.9	2675.8	2804.8	2785.9	2760.8	2776.4	2754.4	2729.3
30°	7672.2	5314.0	2675.8	2490.3	2609.8	2672.7	2694.7	2669.6	2688.4	2647.6	2660.2
32.5°	7590.5	4924.1	2487.2	2399.1	2531.2	2528.1	2600.4	2619.2	2575.2	2490.3	2502.9
35°	7625.1	4609.6	2326.8	2358.2	2443.2	2443.2	2499.7	2477.7	2361.4	2311.1	2323.7
37.5°	7864.1	4301.5	2248.2	2301.7	2358.2	2383.5	2364.6	2270.2	2242.0	2242.0	2248.2
40°	8090.4	4037.4	2201.0	2289.1	2279.6	2295.4	2157.0	2166.5	2166.5	2169.6	2153.9
42.5°	8291.7	3858.2	2163.4	2213.6	2229.4	2147.6	2062.7	2053.3	2075.3	2072.1	2059.5
45°	8364.0	3710.3	2109.9	2128.7	2141.3	2006.1	1965.3	1946.4	1971.5	1980.9	1993.5
47.5°	8087.3	3587.7	2050.1	2012.4	1987.3	1899.2	1845.8	1811.2	1842.6	1896.0	1908.6
50°	7732.0	3427.3	1955.8	1883.5	1830.0	1792.3	1754.5	1719.9	1741.9	1779.7	1770.3
52.5°	7206.9	3175.8	1836.3	1760.8	1669.7	1679.1	1644.5	1625.7	1638.2	1638.2	1628.8
55°	6458.5	2609.8	1635.1	1581.6	1506.2	1531.3	1537.6	1512.4	1487.3	1509.3	1490.4
57.5°	4408.4	1842.6	1459.0	1459.0	1383.5	1418.1	1415.0	1355.2	1295.5	1301.7	1289.2
60°	2550.1	1468.4	1345.8	1333.2	1254.6	1282.9	1289.2	1248.3	1157.1	1163.4	1150.9
62.5°	1449.6	1254.6	1176.0	1157.1	1141.4	1166.6	1166.6	1113.1	1034.5	1040.8	1028.2
65°	1232.6	1163.4	1050.2	1047.1	1040.8	1047.1	1021.9	965.3	896.1	867.9	871.0
67.5°	1119.4	1075.4	965.3	937.0	918.1	915.0	867.9	814.4	782.9	757.8	754.7
70°	981.0	946.5	864.7	827.0	808.1	764.1	716.9	682.3	638.3	625.7	638.3
72.5°	776.7	773.5	742.0	701.2	660.3	625.7	584.8	537.7	496.8	487.3	465.3
75°	537.7	544.0	550.3	544.0	509.4	465.3	418.2	380.5	330.2	301.8	295.6
77.5°	352.2	361.6	371.1	358.5	336.5	295.6	264.1	217.0	179.2	157.2	154.1
80°	257.8	270.4	276.7	267.2	242.1	210.7	176.1	138.4	110.1	91.2	91.2
82.5°	198.1	210.7	217.0	201.2	176.1	151.0	125.7	97.5	75.5	59.7	56.6
85°	69.1	66.0	78.6	81.7	97.5	91.2	75.5	56.6	44.0	31.5	28.3
87.5°	18.9	18.9	22.0	22.0	18.9	15.7	15.7	15.7	12.6	9.4	9.4
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)