

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: P531387

Luminaire Tested: **GALN-SA6C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21910 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

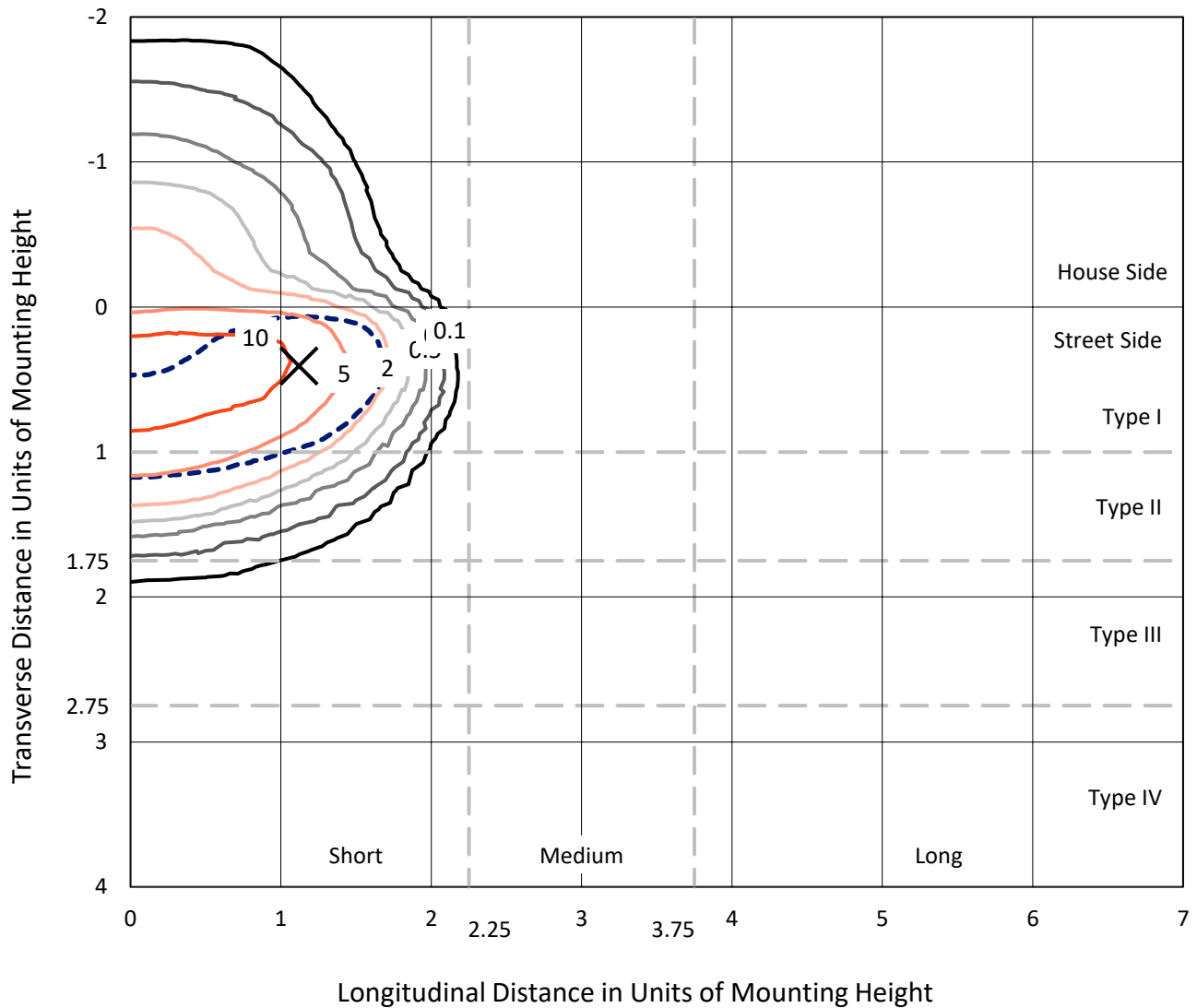
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

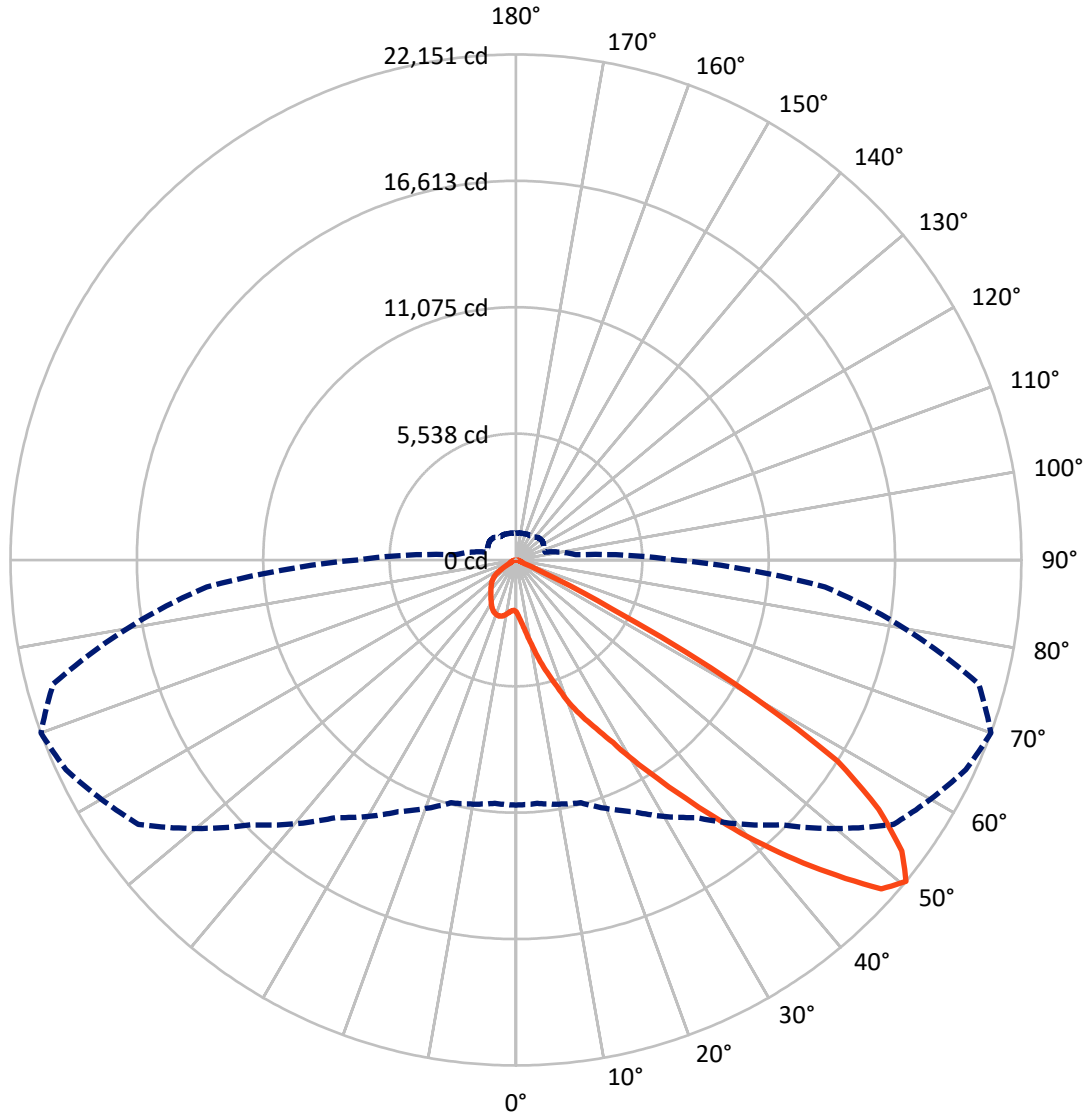
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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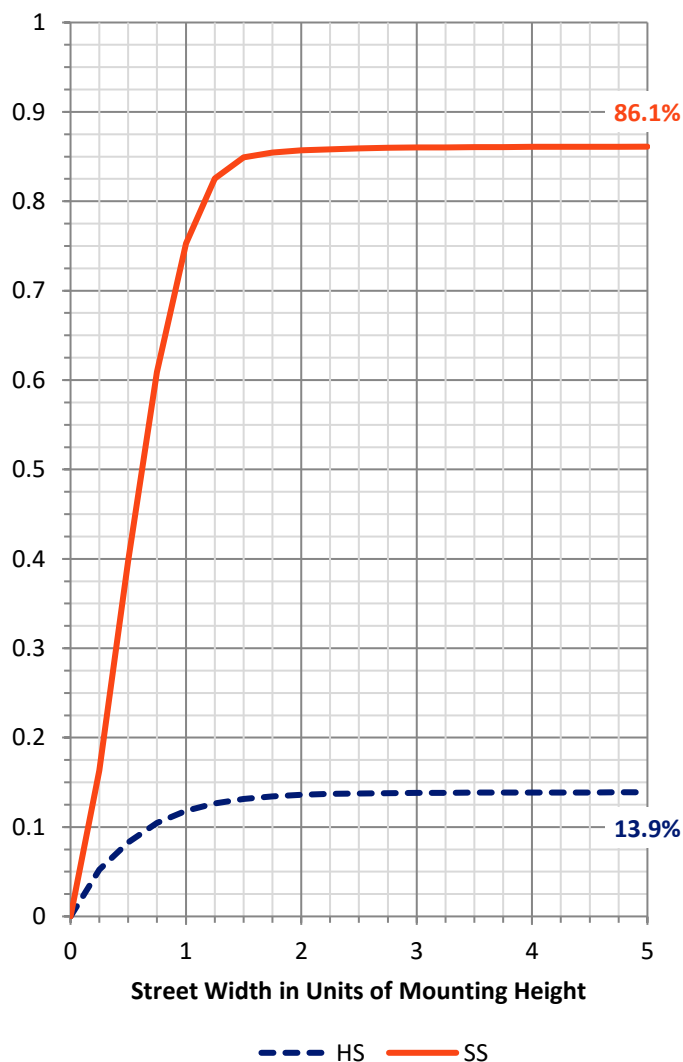
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3059.9	0.0	3059.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	18850.1	0.0	18850.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	21910.0	0.0	21910.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.1	1.3
10°-20°	1276.5	5.8
20°-30°	2678.0	12.2
30°-40°	4615.9	21.1
40°-50°	6746.1	30.8
50°-60°	5254.1	24.0
60°-70°	890.2	4.1
70°-80°	122.3	0.6
80°-90°	31.7	0.1
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°	21910.0	100.0
0°-180°	21910.0	100.0

**Coefficient of Utilization**



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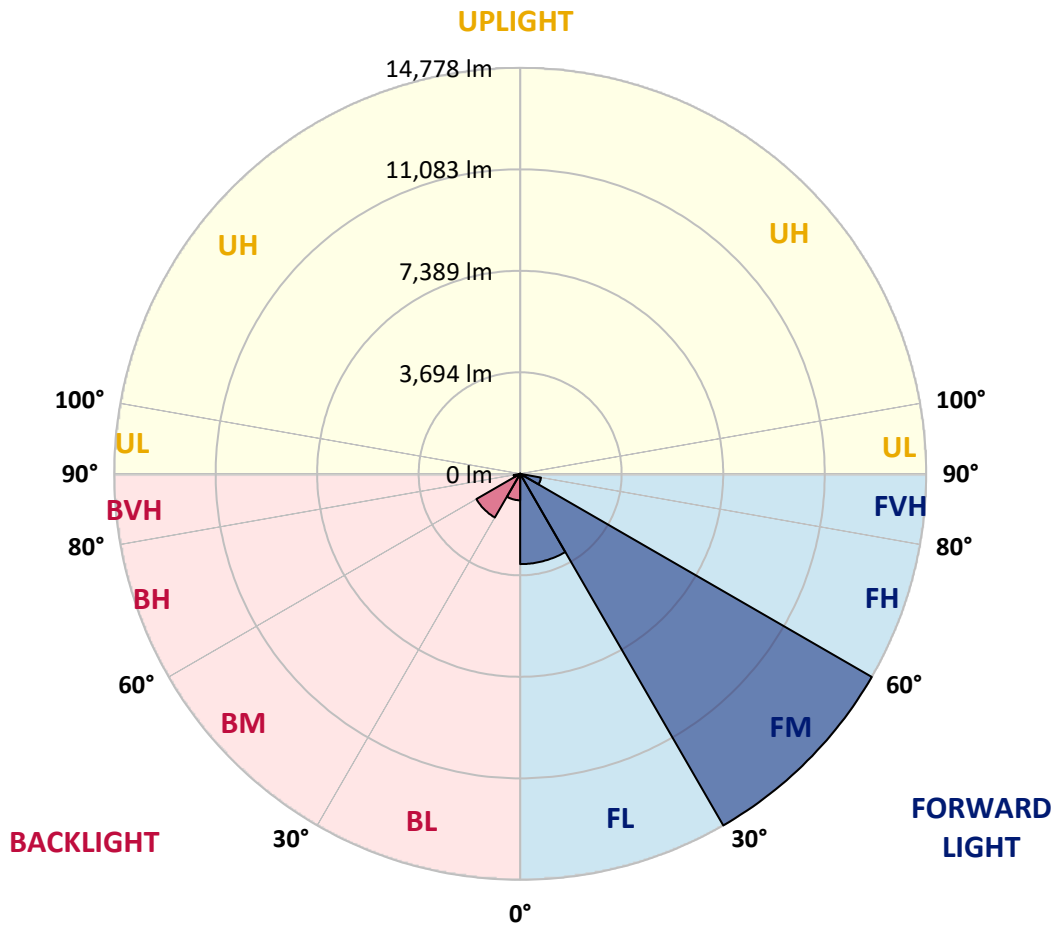
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.8	15.0			
FM (30°-60°)	14777.9	67.4			
FH (60°-80°)	770.8	3.5			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	962.9	4.4	B2/1000		
BM (30°-60°)	1838.3	8.4	B2/2500		
BH (60°-80°)	241.7	1.1	B1/500		G1/500
BVH (80°-90°)	17.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4
2.5°	2971.9	2950.3	2903.4	2817.0	2781.0	2694.5	2644.1	2546.8	2485.6	2417.1	2341.5
5°	4185.9	4074.2	4005.7	3908.5	3623.9	3447.4	3155.6	2907.1	2791.8	2665.7	2492.8
7.5°	5439.5	5367.4	5273.8	5064.8	4870.3	4502.9	4002.1	3454.6	3220.4	3004.3	2662.1
10°	6476.9	6275.2	6264.4	6109.5	5897.0	5457.5	4855.9	4175.1	3757.2	3440.2	2903.4
12.5°	7201.0	7017.3	7100.1	7082.1	6884.0	6480.5	5785.3	4884.7	4448.8	3955.3	3152.0
15°	7860.2	7784.6	7759.3	7737.7	7658.5	7359.5	6736.3	5749.3	5118.9	4524.5	3433.0
17.5°	8505.0	8310.5	8404.1	8422.2	8415.0	8144.8	7561.2	6570.6	5828.5	5126.1	3728.4
20°	9077.8	9095.8	8969.7	8944.5	8922.9	8912.1	8342.9	7384.7	6700.3	5756.5	4113.8
22.5°	9812.6	9686.6	9798.2	9726.2	9585.7	9499.2	9063.4	8105.2	7456.7	6516.5	4506.5
25°	10680.8	10781.7	10518.7	10489.9	10335.0	10036.0	9643.3	8912.1	8184.4	7222.6	4931.5
27.5°	11750.7	11574.2	11505.7	11347.2	11066.2	10940.2	10479.1	9744.2	9063.4	7964.7	5342.2
30°	12669.3	12622.4	12280.2	12092.9	11847.9	11844.3	11199.5	10871.7	10208.9	9128.2	5907.8
32.5°	13418.5	13213.2	13087.1	12957.4	12759.3	12813.4	12269.4	12096.5	11430.1	10208.9	6574.2
35°	13919.3	13771.6	13695.9	13497.8	13440.2	13681.5	13454.6	13382.5	12835.0	11729.1	7355.9
37.5°	14077.8	14124.6	14110.2	13861.6	13984.1	14636.1	14927.9	14740.6	14452.4	13332.1	8202.4
40°	14218.3	14250.7	14178.6	14470.4	14819.8	15561.9	16617.4	16307.6	16199.5	14956.7	9380.4
42.5°	14297.5	14272.3	14272.3	14776.6	15306.1	16797.5	18249.2	18043.9	17961.0	16685.8	10742.0
45°	13955.3	13710.3	13973.3	14657.7	15724.0	17406.3	19553.2	19837.8	19719.0	18742.7	12334.3
47.5°	12676.5	12827.8	12975.5	13890.4	15216.1	17219.0	20353.0	21322.0	21541.7	20471.8	13378.9
50°	10742.0	10709.6	11015.8	12168.5	13778.8	16412.0	20198.1	21750.6	22150.5	20990.6	13598.7
52.5°	7813.4	8051.1	8382.5	9528.1	11437.3	14322.7	18198.8	20644.7	21177.9	20353.0	13454.6
55°	4549.7	4286.7	5032.4	6001.4	7802.6	10803.3	15385.4	18299.6	19286.7	19193.0	12726.9
57.5°	1822.8	1765.1	2020.9	2723.3	4070.6	6696.7	11188.7	15036.0	16617.4	17579.2	11185.1
60°	799.7	781.7	918.6	1109.5	1664.3	3087.2	6120.3	9351.6	11001.4	12283.8	7698.1
62.5°	576.4	569.2	637.6	706.0	879.0	1343.7	2572.0	3768.0	4697.4	5673.6	3447.4
65°	464.7	482.7	529.5	565.6	648.4	745.7	907.8	1048.3	1286.0	1332.8	760.1
67.5°	378.2	392.6	435.9	475.5	489.9	403.5	417.9	367.4	367.4	327.8	263.0
70°	277.4	281.0	331.4	378.2	302.6	162.1	284.6	284.6	255.8	245.0	223.3
72.5°	205.3	208.9	248.6	234.1	118.9	100.9	208.9	230.5	208.9	198.1	180.1
75°	151.3	154.9	129.7	54.0	50.4	64.8	122.5	158.5	151.3	147.7	136.9
77.5°	28.8	21.6	18.0	25.2	36.0	54.0	79.3	97.3	100.9	108.1	100.9
80°	3.6	3.6	10.8	21.6	39.6	57.6	82.9	93.7	97.3	100.9	93.7
82.5°	0.0	3.6	10.8	21.6	39.6	54.0	72.0	82.9	90.1	93.7	90.1
85°	0.0	3.6	7.2	18.0	32.4	39.6	36.0	25.2	21.6	25.2	18.0
87.5°	0.0	0.0	3.6	3.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2
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°	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4
2.5°	2298.3	2283.9	2233.4	2179.4	2132.6	2154.2	2132.6	2114.5	2121.8	2114.5	2107.3
5°	2424.3	2359.5	2251.4	2204.6	2165.0	2161.4	2150.6	2147.0	2150.6	2150.6	2118.1
7.5°	2543.2	2438.8	2323.5	2273.0	2226.2	2229.8	2204.6	2204.6	2201.0	2183.0	2175.8
10°	2723.3	2582.8	2435.2	2345.1	2287.5	2276.6	2251.4	2226.2	2226.2	2226.2	2190.2
12.5°	2921.5	2744.9	2543.2	2438.8	2370.3	2316.3	2276.6	2269.4	2229.8	2222.6	2204.6
15°	3094.4	2871.0	2615.3	2471.2	2384.7	2312.7	2251.4	2211.8	2193.8	2183.0	2168.6
17.5°	3263.7	2979.1	2654.9	2471.2	2377.5	2294.7	2229.8	2193.8	2150.6	2157.8	2129.0
20°	3490.6	3094.4	2665.7	2424.3	2309.1	2229.8	2143.4	2125.4	2100.1	2078.5	2085.7
22.5°	3710.4	3177.2	2633.3	2366.7	2201.0	2107.3	2064.1	2042.5	2031.7	2013.7	1988.5
25°	3908.5	3267.3	2582.8	2262.2	2085.7	2017.3	1977.7	1974.1	1948.8	1948.8	1902.0
27.5°	4110.2	3299.7	2496.4	2139.8	1984.9	1945.2	1927.2	1920.0	1909.2	1884.0	1851.6
30°	4340.8	3310.5	2370.3	2013.7	1894.8	1851.6	1876.8	1894.8	1848.0	1801.1	1815.6
32.5°	4531.7	3285.3	2219.0	1894.8	1830.0	1808.4	1858.8	1876.8	1822.8	1772.3	1747.1
35°	4762.2	3224.1	2071.3	1801.1	1765.1	1808.4	1851.6	1851.6	1743.5	1682.3	1667.9
37.5°	5111.7	3155.6	1934.4	1721.9	1696.7	1786.7	1844.4	1804.7	1635.4	1559.8	1541.8
40°	5486.3	3112.4	1801.1	1642.6	1660.7	1750.7	1783.1	1660.7	1487.7	1440.9	1426.5
42.5°	6030.2	3025.9	1682.3	1574.2	1628.2	1700.3	1700.3	1480.5	1415.7	1390.5	1386.9
45°	6707.5	2964.7	1577.8	1516.6	1581.4	1599.4	1541.8	1386.9	1340.1	1332.8	1336.5
47.5°	7038.9	2845.8	1469.7	1448.1	1495.0	1498.6	1347.3	1311.2	1271.6	1260.8	1253.6
50°	6988.4	2633.3	1329.2	1358.1	1422.9	1386.9	1228.4	1235.6	1199.6	1196.0	1177.9
52.5°	6635.4	2298.3	1188.8	1257.2	1329.2	1224.8	1131.1	1123.9	1123.9	1077.1	1059.1
55°	5882.5	1851.6	1019.4	1105.9	1192.4	1030.3	1005.0	997.8	979.8	936.6	925.8
57.5°	4657.8	1358.1	767.3	860.9	1012.2	875.4	871.8	839.3	792.5	760.1	760.1
60°	2770.2	781.7	482.7	525.9	670.0	709.7	788.9	774.5	695.2	644.8	630.4
62.5°	1264.4	403.5	306.2	313.4	360.2	461.1	619.6	716.9	605.2	518.7	511.5
65°	425.1	299.0	252.2	241.4	248.6	277.4	371.0	507.9	482.7	399.9	385.4
67.5°	259.4	266.6	237.8	219.7	219.7	216.1	212.5	230.5	284.6	277.4	281.0
70°	223.3	245.0	219.7	198.1	190.9	180.1	151.3	126.1	108.1	126.1	133.3
72.5°	180.1	194.5	187.3	169.3	151.3	136.9	108.1	82.9	61.2	54.0	54.0
75°	133.3	144.1	151.3	129.7	115.3	97.3	79.3	54.0	32.4	21.6	21.6
77.5°	97.3	108.1	111.7	100.9	86.5	68.4	50.4	36.0	18.0	7.2	7.2
80°	82.9	97.3	108.1	100.9	90.1	64.8	46.8	25.2	14.4	3.6	3.6
82.5°	79.3	97.3	108.1	97.3	86.5	61.2	46.8	28.8	10.8	3.6	3.6
85°	18.0	25.2	32.4	39.6	46.8	46.8	36.0	21.6	10.8	3.6	3.6
87.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	3.6	3.6	0.0
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)