

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: P382602

Luminaire Tested: **GLEON-SA0A-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44082.7 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

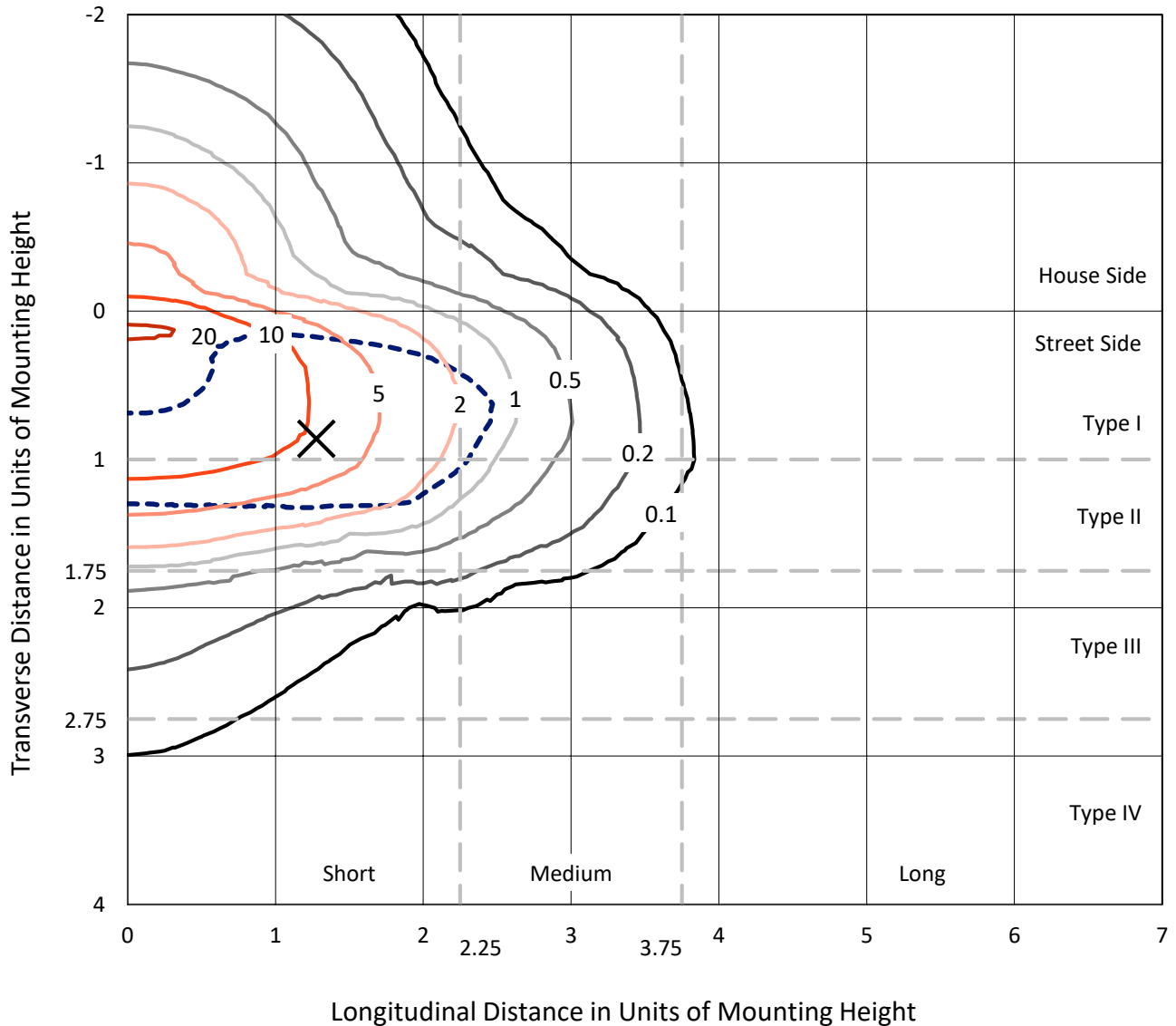
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

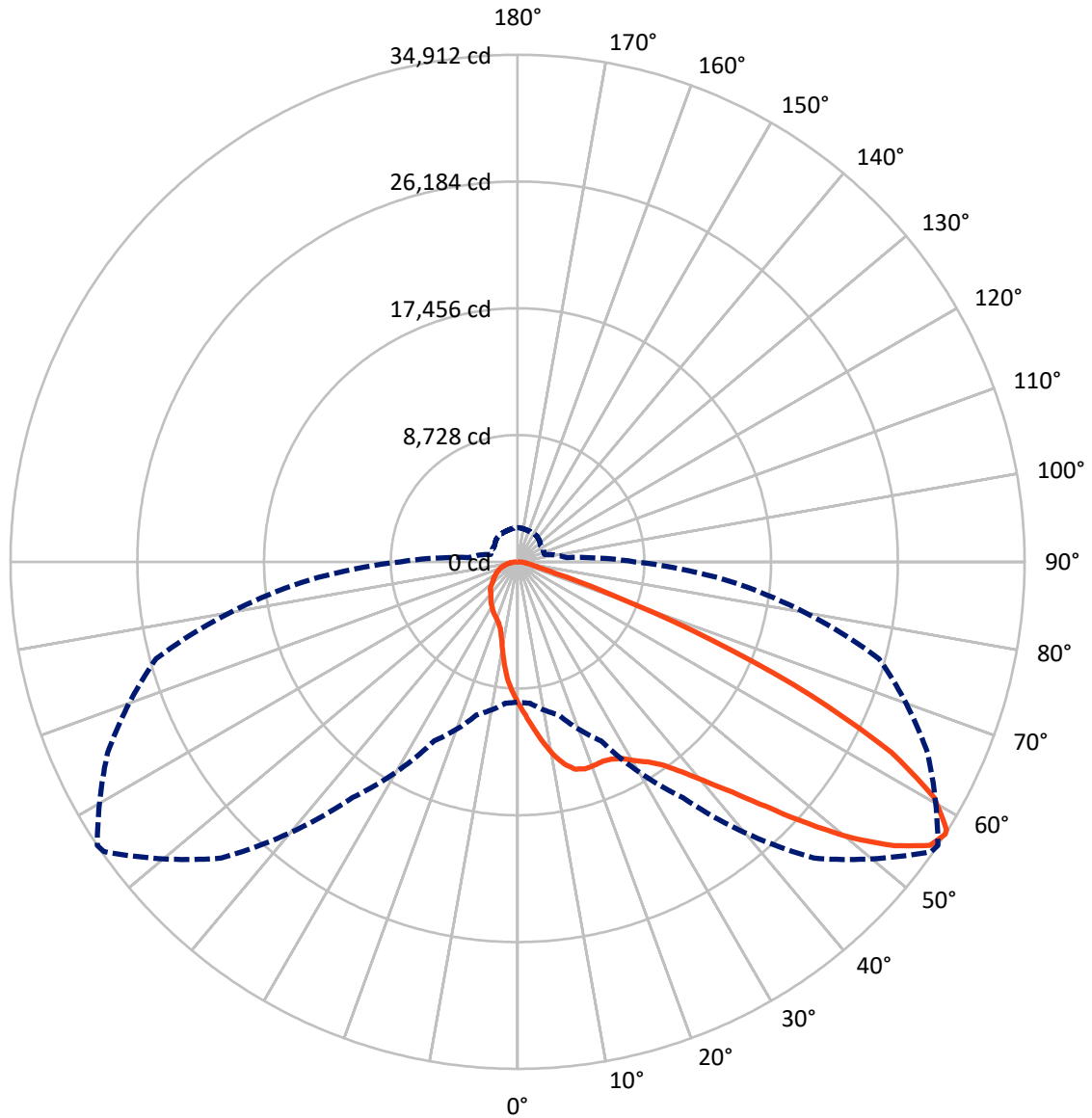
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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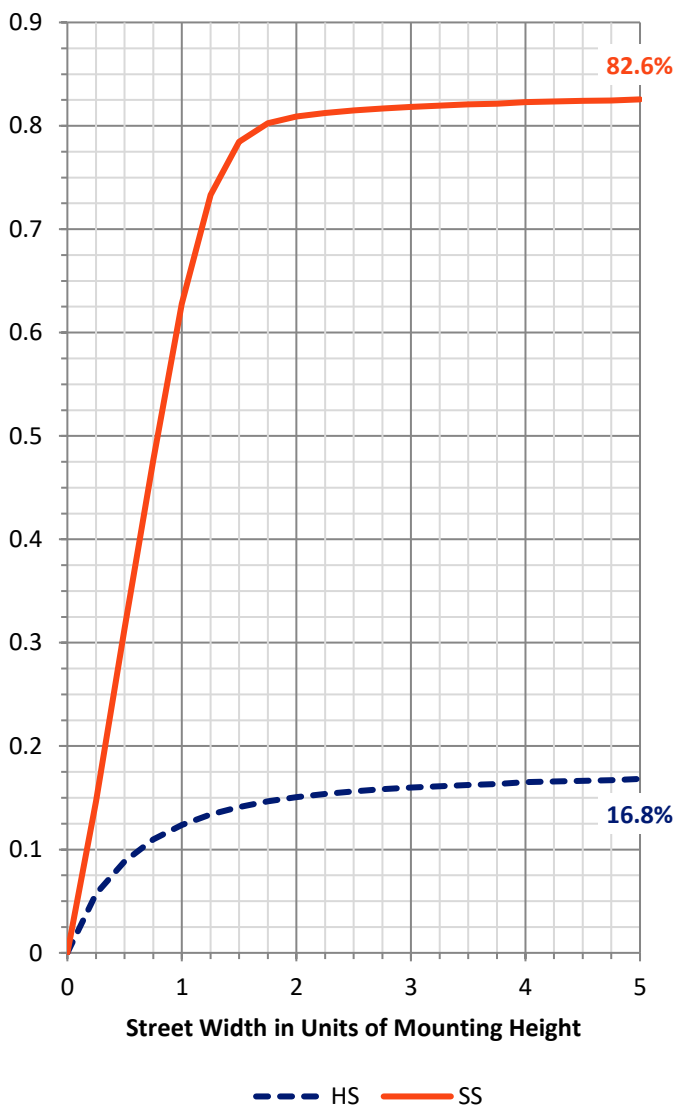
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7598.9	0.0	7598.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	36483.8	0.0	36483.8
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	44082.7	0.0	44082.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	934.0	2.1
10°-20°	2640.6	6.0
20°-30°	4301.1	9.8
30°-40°	6429.7	14.6
40°-50°	9752.4	22.1
50°-60°	10930.8	24.8
60°-70°	6456.1	14.6
70°-80°	2115.3	4.8
80°-90°	522.6	1.2
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°	44082.7	100.0
0°-180°	44082.7	100.0

**Coefficient of Utilization**



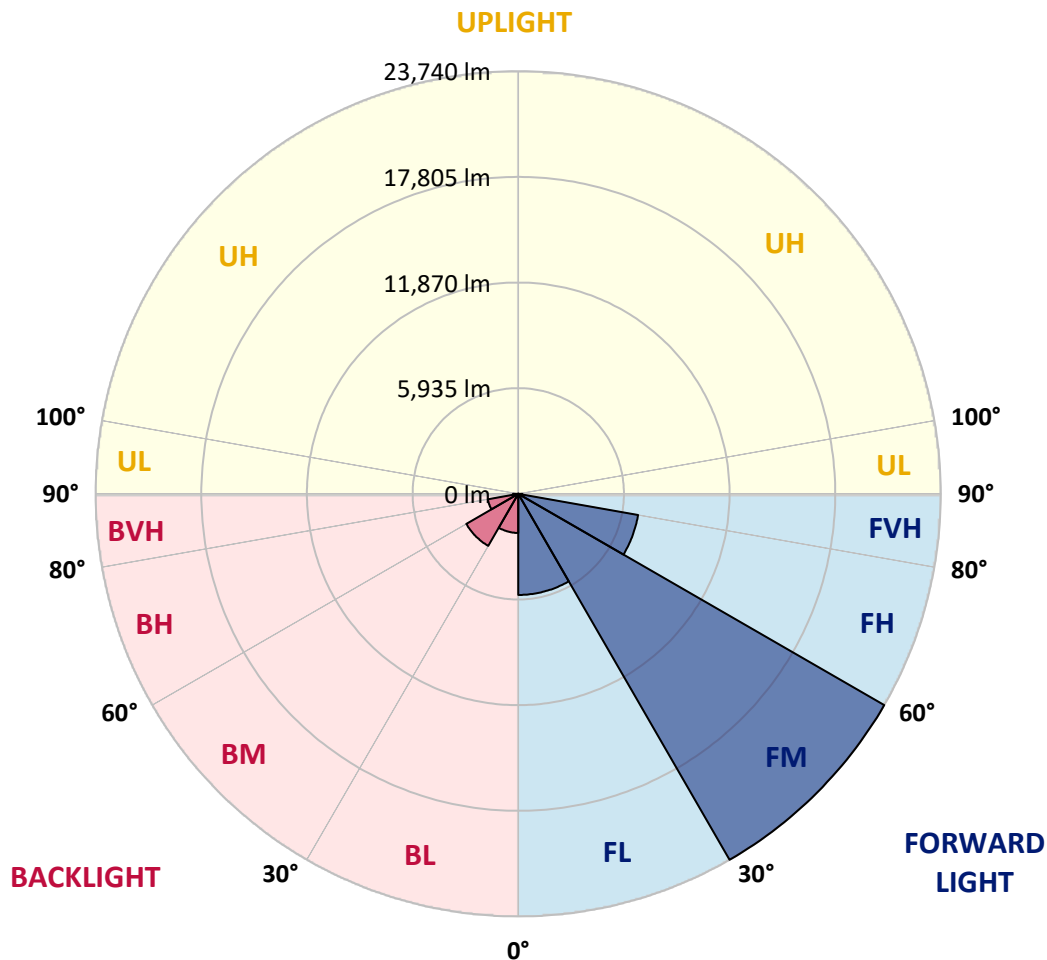
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5678.5	12.9			
FM (30°-60°)	23740.0	53.9			
FH (60°-80°)	6835.2	15.5			G3/7500
FVH (80°-90°)	230.1	0.5			G3/500
BL (0°-30°)	2197.2	5.0	B3/2500		
BM (30°-60°)	3372.9	7.7	B3/5000		
BH (60°-80°)	1736.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	292.5	0.7			G3/500
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°	55°	56°	65°	75°	85°
0°	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6
2.5°	11227.4	11330.4	11285.0	11127.4	11006.2	10835.0	10644.1	10586.6	10385.1	10159.4	9888.2
5°	13004.5	12953.0	12878.7	12633.3	12374.2	12072.8	11594.0	11518.3	11069.9	10559.3	10020.0
7.5°	14016.4	14011.9	13968.0	13824.1	13587.7	13193.8	12616.6	12527.3	11850.0	11029.0	10192.7
10°	13869.5	13858.9	13931.6	14081.6	14152.8	14071.0	13584.7	13495.3	12663.6	11548.6	10392.6
12.5°	13034.8	13040.8	13157.5	13472.6	13901.3	14416.4	14337.6	14293.7	13507.4	12136.4	10635.0
15°	12384.8	12398.4	12490.8	12765.1	13271.1	14205.8	14795.1	14810.3	14324.0	12784.7	10918.4
17.5°	12100.1	12128.8	12171.2	12363.6	12827.2	13786.2	14904.2	14986.0	15039.1	13457.4	11191.1
20°	12190.9	12218.2	12230.3	12353.1	12733.3	13531.7	14828.5	14975.5	15587.5	14090.7	11463.7
22.5°	12598.4	12615.1	12622.7	12654.5	12949.9	13604.4	14778.4	14933.0	15984.4	14658.8	11669.8
25°	13274.1	13262.0	13213.5	13172.6	13371.1	13892.3	14893.6	15040.6	16307.1	15173.9	11804.6
27.5°	14083.1	14068.0	13974.1	13861.9	13975.5	14340.6	15225.4	15342.0	16596.5	15655.7	11872.8
30°	15054.2	15014.8	14837.6	14704.3	14748.2	15013.3	15772.3	15878.3	17043.3	16202.6	11939.5
32.5°	16176.8	16134.4	15878.3	15657.2	15657.2	15878.3	16335.9	16423.7	17422.1	16820.7	12047.0
35°	17582.7	17529.7	17196.4	16825.2	16720.6	16832.8	17104.0	17166.1	18103.8	17599.4	12242.4
37.5°	19240.1	19168.8	18737.1	18240.2	18011.4	18005.3	18200.8	18328.0	19193.0	18621.9	12574.2
40°	20902.0	20851.9	20474.8	20083.9	19635.4	19491.5	19793.1	19832.4	20617.2	19891.5	12998.4
42.5°	22186.7	22177.5	22107.9	22159.4	21700.3	21409.5	21645.8	21677.7	22356.3	21265.6	13449.9
45°	22865.4	22880.5	23218.4	23966.8	24136.4	23924.3	24041.0	24050.0	24343.9	22651.8	13863.5
47.5°	22321.5	22400.3	23254.7	24928.8	26318.0	27022.4	26828.5	26940.6	26271.0	23842.5	14187.7
50°	20202.1	20299.0	21753.4	24500.0	27336.0	30020.5	29919.1	29893.3	27825.3	24715.2	14363.3
52.5°	17576.6	17652.4	18852.2	22271.5	26589.2	31677.9	32609.6	32476.3	29207.0	25368.1	14396.7
55°	13578.6	13696.8	14846.6	17823.6	23568.3	31044.7	34588.2	34468.5	30466.0	25710.4	14357.3
57°	9653.3	9777.6	10919.9	13602.8	19826.3	28852.5	34785.1	34912.4	31146.2	25768.0	14401.3
57.5°	8614.1	8741.4	9873.0	12478.7	18659.8	28060.2	34615.5	34827.5	31268.9	25759.0	14425.5
60°	4337.4	4385.8	5106.9	6965.8	11795.5	22685.0	32402.0	32948.9	31379.5	25313.5	14530.0
62.5°	2696.6	2661.8	2639.1	3208.7	5738.7	15043.6	27834.5	28887.4	29263.1	24234.9	14277.0
65°	2370.9	2305.8	2055.8	2010.4	2534.6	7306.7	20961.0	22271.5	24740.9	22535.1	13674.1
67.5°	2227.0	2163.3	1881.5	1711.9	1713.4	2896.6	13013.5	14489.1	19273.3	19661.2	12251.5
70°	2078.6	2021.0	1757.4	1557.4	1458.9	1604.3	5987.1	7106.7	12563.6	15454.2	10239.7
72.5°	1887.7	1848.3	1598.3	1392.3	1287.7	1201.3	2292.2	2707.3	7273.3	10379.0	7111.2
75°	1687.7	1651.4	1437.7	1240.7	1113.5	945.3	1290.8	1390.7	3695.0	5309.9	3501.1
77.5°	1468.0	1446.8	1278.6	1096.8	995.4	783.2	913.6	962.0	1584.7	2277.0	1755.9
80°	1168.1	1209.0	1118.0	977.2	883.2	627.2	646.9	678.7	922.6	1112.0	996.8
82.5°	760.5	831.7	875.7	793.9	727.2	493.9	465.1	478.7	601.4	678.7	433.3
85°	316.6	356.0	575.7	519.6	483.3	360.6	312.1	318.1	372.7	386.3	177.3
87.5°	140.8	150.0	253.0	237.8	204.5	124.3	133.3	145.4	198.4	187.9	68.2
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°	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6	9777.6
2.5°	9786.7	9659.4	9441.2	9200.3	9003.4	8845.9	8686.8	8577.7	8450.4	8382.3	8347.4
5°	9794.3	9544.3	9085.2	8614.1	8193.0	7808.1	7441.5	7159.7	6896.2	6753.7	6714.3
7.5°	9826.1	9450.4	8708.0	7932.3	7184.0	6500.7	5973.5	5643.2	5405.4	5299.4	5269.0
10°	9851.9	9339.8	8241.4	7093.1	6075.0	5382.7	4973.6	4788.8	4707.0	4693.3	4679.7
12.5°	9912.4	9226.1	7750.6	6217.4	5213.0	4734.2	4591.9	4579.8	4602.5	4635.8	4635.8
15°	10007.9	9114.0	7190.1	5465.9	4664.5	4496.4	4525.2	4591.9	4654.0	4705.5	4713.1
17.5°	10077.6	8976.2	6587.1	4864.5	4372.2	4417.7	4520.6	4614.6	4678.2	4728.2	4732.7
20°	10127.5	8762.5	5943.2	4405.5	4204.0	4344.9	4473.7	4557.0	4600.9	4650.9	4658.5
22.5°	10101.8	8476.2	5372.0	4076.7	4067.7	4238.9	4361.6	4461.6	4428.2	4379.8	4411.6
25°	9977.5	8082.3	4784.2	3831.4	3923.8	4096.5	4248.0	4181.3	4069.2	4047.9	4060.2
27.5°	9756.4	7579.4	4240.4	3604.1	3757.1	3964.7	3955.5	3888.9	3849.5	3822.2	3838.9
30°	9518.6	7034.0	3764.7	3405.6	3572.3	3743.5	3708.7	3707.1	3667.7	3623.8	3645.0
32.5°	9283.7	6485.5	3387.5	3242.1	3432.9	3455.7	3531.4	3554.1	3476.8	3384.4	3378.4
35°	9079.1	5967.4	3101.1	3093.6	3264.8	3267.8	3378.4	3346.6	3154.1	3058.7	3058.7
37.5°	8926.2	5450.9	2883.0	2960.3	3043.6	3122.4	3178.4	3046.6	3014.8	2961.8	2960.3
40°	8859.5	4996.4	2746.7	2858.7	2887.5	2987.5	2843.5	2895.1	2910.2	2883.0	2883.0
42.5°	8789.8	4600.9	2628.5	2781.5	2776.9	2763.2	2690.6	2757.2	2817.8	2819.3	2814.8
45°	8720.1	4260.1	2523.9	2616.3	2680.0	2533.1	2546.7	2617.8	2702.7	2733.0	2733.0
47.5°	8642.9	3990.4	2428.5	2442.1	2540.6	2442.1	2431.5	2486.0	2586.1	2634.5	2645.1
50°	8473.2	3748.0	2319.4	2289.1	2316.4	2349.7	2358.8	2384.6	2495.2	2572.4	2590.6
52.5°	8238.4	3531.4	2180.0	2148.2	2148.2	2274.0	2316.4	2323.9	2417.9	2510.3	2528.5
55°	8043.0	3393.5	2036.1	2030.0	2024.0	2193.7	2266.4	2278.5	2343.7	2416.3	2425.5
57°	8056.6	3382.9	1925.5	1931.6	1930.1	2111.8	2219.4	2245.2	2278.5	2340.6	2351.2
57.5°	8064.1	3390.5	1901.3	1904.3	1902.8	2089.2	2205.8	2234.6	2260.3	2325.5	2336.0
60°	8177.8	3410.2	1802.8	1769.5	1777.0	1967.9	2128.5	2164.9	2181.6	2267.9	2281.5
62.5°	8009.6	3322.3	1724.0	1643.7	1643.7	1840.6	2021.0	2078.6	2104.3	2220.9	2243.6
65°	7521.8	3075.4	1631.6	1501.4	1516.5	1713.4	1892.2	1986.2	2025.5	2171.0	2195.2
67.5°	6768.9	2789.1	1533.1	1374.0	1389.2	1580.1	1758.9	1860.4	1922.5	2116.4	2136.1
70°	5788.6	2439.1	1399.8	1239.2	1257.4	1434.7	1601.3	1716.5	1808.9	2064.9	2070.9
72.5°	4267.7	1999.8	1213.5	1090.7	1110.5	1265.0	1442.2	1575.5	1699.8	1936.1	1933.1
75°	2537.5	1563.4	1007.5	940.8	954.5	1098.4	1298.3	1460.4	1646.8	1886.1	1914.9
77.5°	1539.2	1177.1	821.1	787.8	804.5	951.4	1195.3	1368.0	1624.1	1778.6	1769.5
80°	930.2	840.8	656.0	634.8	651.4	813.5	1105.9	1298.3	1419.5	1519.5	1519.5
82.5°	486.3	513.6	481.8	465.1	487.9	660.6	1006.0	1133.2	1254.4	1077.1	1006.0
85°	198.4	268.2	292.4	290.8	304.5	457.5	868.1	969.6	809.0	768.1	786.2
87.5°	66.7	113.6	142.4	122.7	128.7	287.8	601.4	468.1	555.9	387.8	368.1
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)