

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: P383330

Luminaire Tested: **GLEON-SA6C-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383330  
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-SA6C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40429.2 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

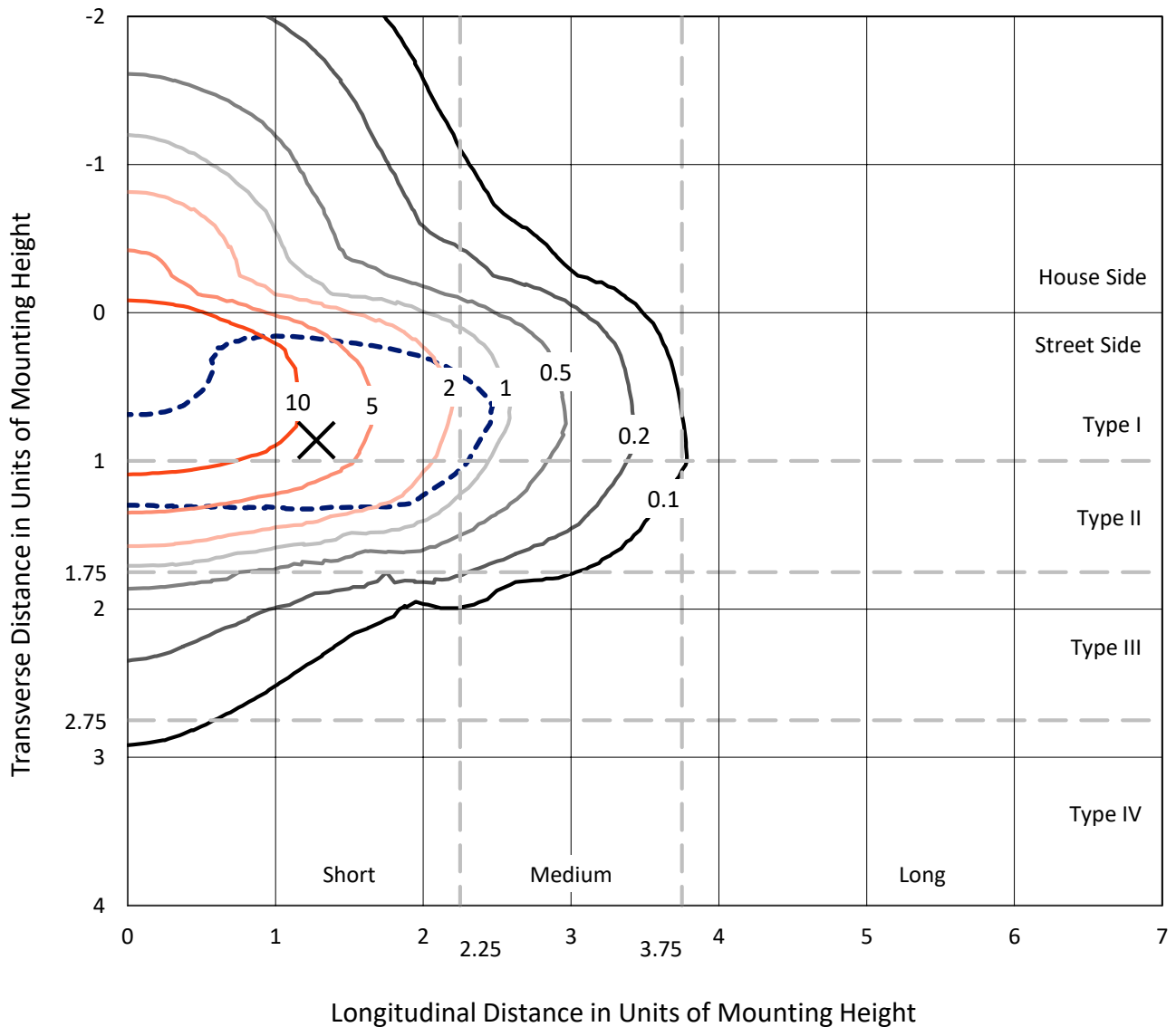
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

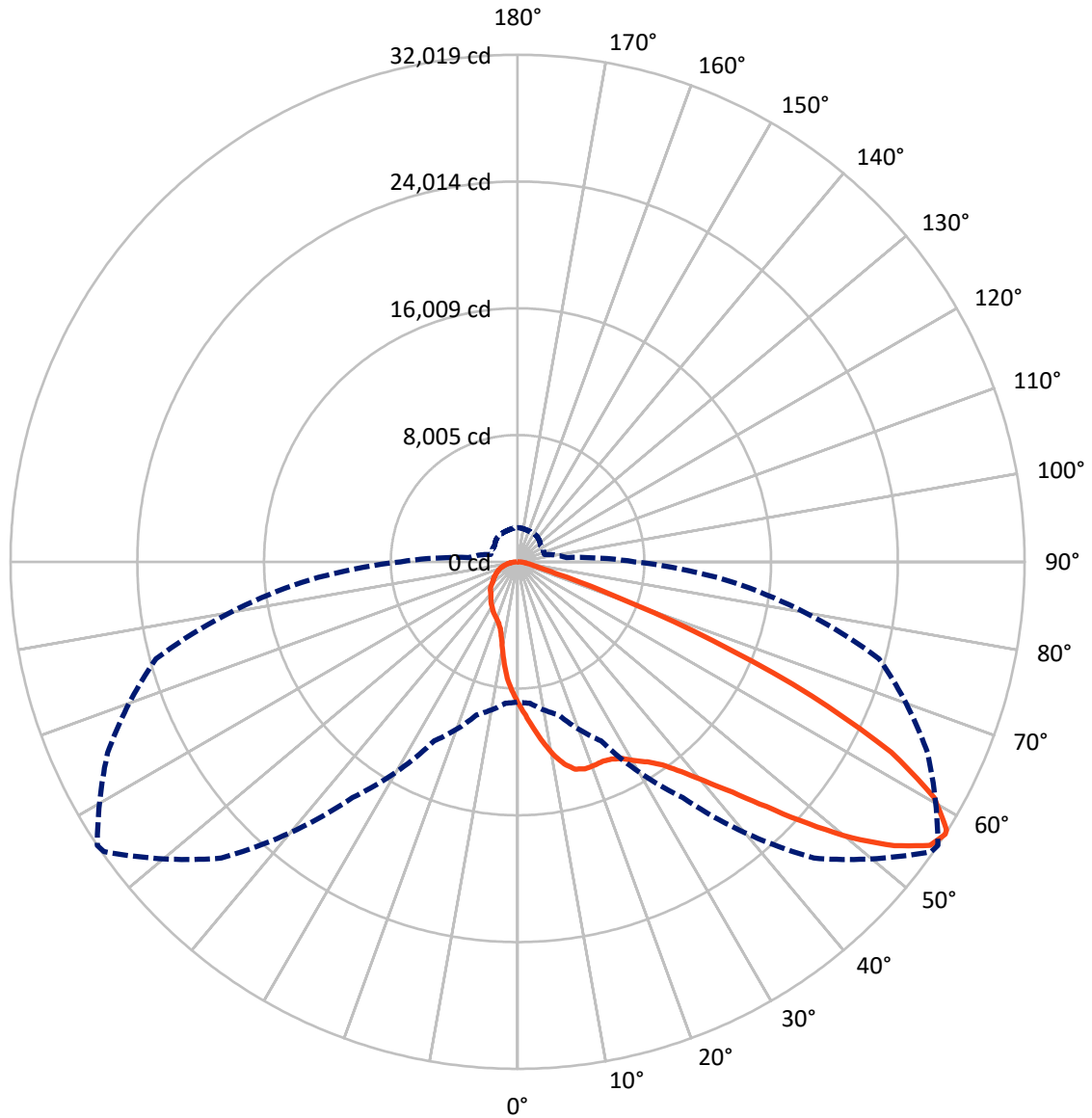
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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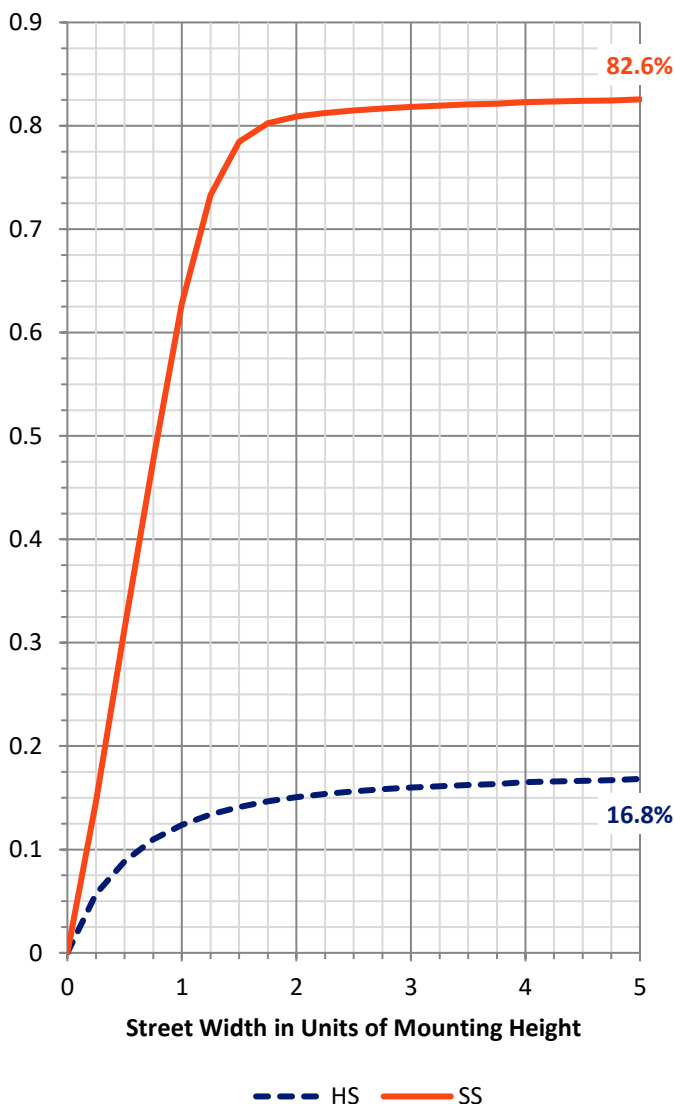
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6969.1	0.0	6969.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	33460.0	0.0	33460.0
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	40429.2	0.0	40429.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.6	2.1
10°-20°	2421.8	6.0
20°-30°	3944.6	9.8
30°-40°	5896.8	14.6
40°-50°	8944.2	22.1
50°-60°	10024.9	24.8
60°-70°	5921.1	14.6
70°-80°	1940.0	4.8
80°-90°	479.3	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°	40429.2	100.0
0°-180°	40429.2	100.0

**Coefficient of Utilization**

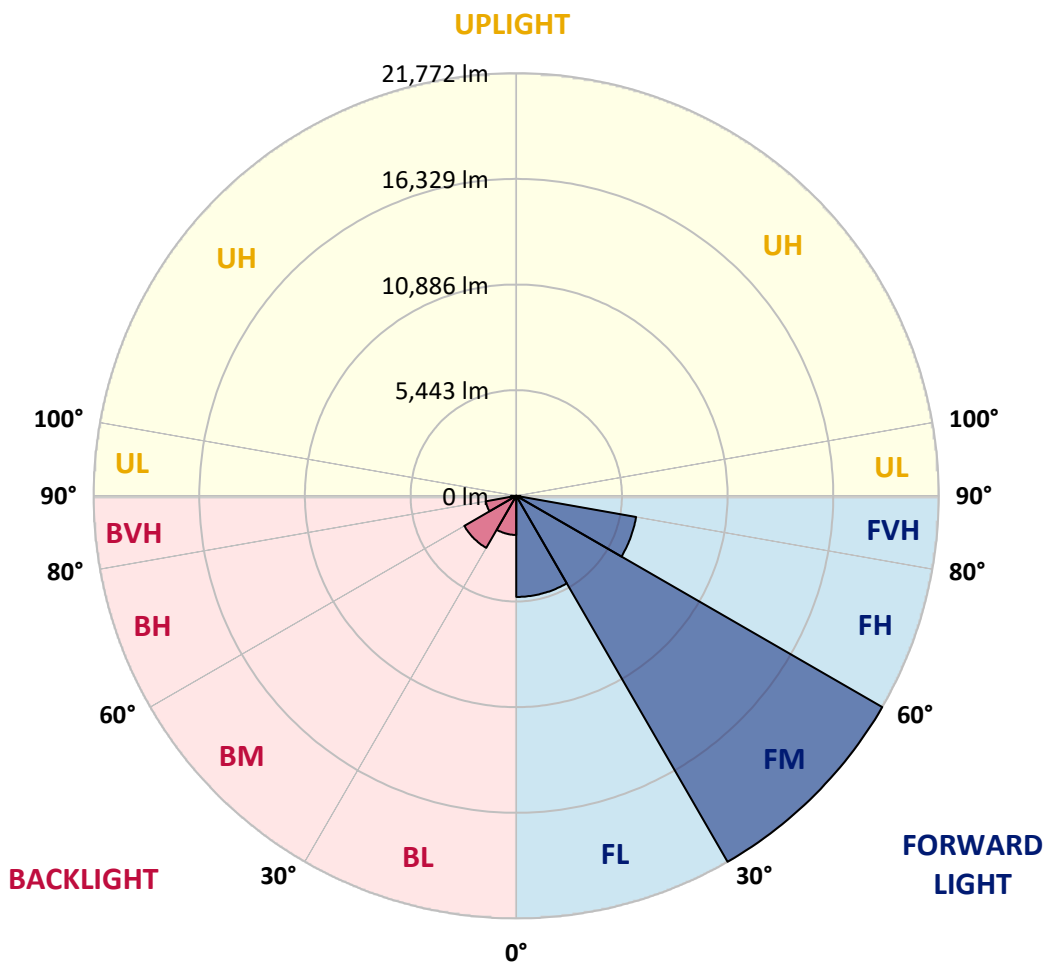


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5207.9	12.9			
FM (30°-60°)	21772.5	53.9			
FH (60°-80°)	6268.7	15.5			G3/7500
FVH (80°-90°)	211.0	0.5			G2/225
BL (0°-30°)	2015.1	5.0	B3/2500		
BM (30°-60°)	3093.4	7.7	B3/5000		
BH (60°-80°)	1592.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	268.3	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°	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3
2.5°	10296.9	10391.3	10349.7	10205.2	10094.1	9937.0	9762.0	9709.1	9524.4	9317.3	9068.6
5°	11926.7	11879.4	11811.4	11586.2	11348.7	11072.2	10633.2	10563.7	10152.4	9684.2	9189.5
7.5°	12854.8	12850.6	12810.4	12678.4	12461.6	12100.3	11570.9	11489.0	10867.9	10114.8	9347.9
10°	12720.0	12710.3	12777.0	12914.5	12979.8	12904.8	12458.8	12376.8	11614.1	10591.4	9531.3
12.5°	11954.5	11960.0	12067.0	12356.0	12749.2	13221.5	13149.4	13109.0	12387.9	11130.5	9753.7
15°	11358.4	11370.9	11455.6	11707.1	12171.2	13028.4	13568.9	13582.8	13136.9	11725.2	10013.5
17.5°	11097.2	11123.6	11162.5	11339.0	11764.1	12643.6	13669.0	13744.0	13792.6	12342.1	10263.5
20°	11180.5	11205.6	11216.7	11329.2	11678.0	12410.2	13599.5	13734.3	14295.6	12922.9	10513.6
22.5°	11554.3	11569.5	11576.5	11605.7	11876.7	12476.9	13553.6	13695.3	14659.6	13443.9	10702.6
25°	12173.9	12162.8	12118.4	12080.9	12262.9	12740.9	13659.3	13794.0	14955.5	13916.3	10826.3
27.5°	12915.9	12902.0	12815.9	12713.1	12817.3	13152.1	13963.5	14070.5	15220.9	14358.1	10888.8
30°	13806.6	13770.4	13607.9	13485.5	13525.9	13769.0	14465.1	14562.3	15630.8	14859.7	10949.9
32.5°	14836.1	14797.2	14562.3	14359.5	14359.5	14562.3	14982.0	15062.6	15978.2	15426.6	11048.5
35°	16125.5	16076.8	15771.1	15430.7	15334.9	15437.7	15686.4	15743.3	16603.4	16140.7	11227.8
37.5°	17645.5	17580.2	17184.2	16728.5	16518.7	16513.1	16692.3	16809.0	17602.3	17078.6	11532.1
40°	19169.7	19123.7	18777.9	18419.4	18008.1	17876.1	18152.6	18188.7	18908.5	18242.9	11921.1
42.5°	20347.9	20339.5	20275.6	20322.8	19901.9	19635.1	19851.8	19881.0	20503.5	19503.1	12335.2
45°	20970.3	20984.2	21294.1	21980.4	22136.0	21941.5	22048.5	22056.8	22326.4	20774.4	12714.4
47.5°	20471.5	20543.8	21327.4	22862.7	24136.8	24782.8	24605.0	24707.8	24093.7	21866.5	13011.8
50°	18527.7	18616.6	19950.5	22469.5	25070.5	27532.4	27439.4	27415.7	25519.2	22666.8	13172.9
52.5°	16119.9	16189.4	17289.8	20425.7	24385.5	29052.5	29907.0	29784.7	26786.4	23265.6	13203.6
55°	12453.2	12561.6	13616.2	16346.3	21615.0	28471.7	31721.5	31611.8	27940.9	23579.6	13167.4
57°	8853.3	8967.3	10014.9	12475.5	18183.2	26461.3	31902.2	32018.9	28564.8	23632.4	13207.7
57.5°	7900.2	8016.9	9054.7	11444.5	17113.3	25734.6	31746.5	31941.1	28677.3	23624.0	13229.9
60°	3977.9	4022.3	4683.7	6388.5	10817.9	20805.0	29716.6	30218.2	28778.8	23215.6	13325.8
62.5°	2473.2	2441.2	2420.3	2942.8	5263.1	13796.8	25527.6	26493.2	26837.8	22226.4	13093.7
65°	2174.4	2114.7	1885.5	1843.7	2324.5	6701.1	19223.8	20425.7	22690.4	20667.4	12540.8
67.5°	2042.4	1984.1	1725.6	1570.0	1571.4	2656.6	11935.0	13288.2	17676.0	18031.7	11236.1
70°	1906.2	1853.5	1611.7	1428.3	1338.0	1471.4	5490.9	6517.7	11522.3	14173.3	9391.0
72.5°	1731.2	1695.0	1465.8	1276.9	1181.0	1101.8	2102.1	2482.9	6670.5	9518.8	6521.9
75°	1547.8	1514.4	1318.5	1137.9	1021.3	867.0	1183.8	1275.5	3388.8	4869.9	3211.0
77.5°	1346.4	1326.9	1172.6	1005.9	912.8	718.3	837.8	882.3	1453.3	2088.3	1610.4
80°	1071.2	1108.7	1025.4	896.1	810.0	575.2	593.3	622.5	846.1	1019.9	914.2
82.5°	697.4	762.8	803.1	728.0	666.9	452.9	426.6	439.0	551.6	622.5	397.4
85°	290.4	326.5	528.0	476.6	443.2	330.7	286.2	291.8	341.8	354.3	162.6
87.5°	129.2	137.6	232.0	218.2	187.6	113.9	122.3	133.4	182.0	172.2	62.5
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°	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3	8967.3
2.5°	8975.6	8858.8	8658.7	8437.9	8257.2	8112.8	7966.9	7866.8	7750.1	7687.6	7655.6
5°	8982.5	8753.3	8332.2	7900.2	7513.9	7161.0	6824.8	6566.3	6324.6	6194.0	6157.8
7.5°	9011.7	8667.1	7986.3	7274.9	6588.6	5961.9	5478.4	5175.5	4957.4	4860.2	4832.3
10°	9035.3	8565.7	7558.4	6505.2	5571.5	4936.6	4561.4	4391.9	4316.9	4304.4	4291.9
12.5°	9090.9	8461.5	7108.2	5702.1	4781.0	4341.9	4211.2	4200.2	4221.0	4251.6	4251.6
15°	9178.4	8358.7	6594.1	5012.9	4277.9	4123.8	4150.1	4211.2	4268.3	4315.5	4322.5
17.5°	9242.3	8232.3	6041.2	4461.4	4009.8	4051.5	4145.9	4232.1	4290.5	4336.4	4340.5
20°	9288.2	8036.4	5450.7	4040.4	3855.6	3984.8	4102.9	4179.3	4219.6	4265.5	4272.4
22.5°	9264.5	7773.8	4926.9	3738.9	3730.6	3887.5	4000.1	4091.8	4061.3	4016.7	4046.0
25°	9150.6	7412.5	4387.8	3513.8	3598.6	3756.9	3895.9	3834.7	3732.0	3712.5	3723.6
27.5°	8947.8	6951.2	3888.9	3305.4	3445.7	3636.1	3627.7	3566.6	3530.5	3505.5	3520.8
30°	8729.6	6451.0	3452.7	3123.4	3276.3	3433.2	3401.3	3399.9	3363.7	3323.5	3343.0
32.5°	8514.3	5948.0	3106.7	2973.3	3148.4	3169.2	3238.7	3259.6	3188.7	3103.9	3098.4
35°	8326.7	5472.8	2844.1	2837.1	2994.2	2997.0	3098.4	3069.2	2892.7	2805.2	2805.2
37.5°	8186.3	4999.1	2644.0	2714.9	2791.3	2863.6	2915.0	2794.1	2764.9	2716.3	2714.9
40°	8125.2	4582.3	2519.0	2621.8	2648.2	2739.9	2608.0	2655.2	2669.1	2644.0	2644.0
42.5°	8061.3	4219.6	2410.7	2550.9	2546.8	2534.3	2467.6	2528.7	2584.3	2585.7	2581.5
45°	7997.4	3907.0	2314.7	2399.5	2457.9	2323.1	2335.6	2400.9	2478.7	2506.5	2506.5
47.5°	7926.5	3659.7	2227.2	2239.7	2330.1	2239.7	2230.0	2280.1	2371.7	2416.2	2425.9
50°	7771.0	3437.4	2127.2	2099.4	2124.4	2154.9	2163.3	2186.9	2288.3	2359.2	2375.9
52.5°	7555.6	3238.7	1999.4	1970.2	1970.2	2085.5	2124.4	2131.4	2217.5	2302.2	2318.9
55°	7376.4	3112.3	1867.4	1861.8	1856.2	2011.9	2078.6	2089.6	2149.5	2216.1	2224.4
57°	7388.8	3102.5	1765.9	1771.5	1770.1	1936.9	2035.5	2059.1	2089.6	2146.7	2156.3
57.5°	7395.8	3109.5	1743.7	1746.5	1745.1	1916.0	2022.9	2049.4	2073.0	2132.8	2142.5
60°	7500.0	3127.6	1653.4	1622.8	1629.7	1804.9	1952.2	1985.5	2000.8	2080.0	2092.4
62.5°	7345.8	3047.0	1581.1	1507.5	1507.5	1688.2	1853.5	1906.2	1929.9	2036.8	2057.7
65°	6898.4	2820.5	1496.3	1376.9	1390.8	1571.4	1735.4	1821.5	1857.6	1991.0	2013.3
67.5°	6207.8	2557.9	1406.1	1260.2	1274.1	1449.1	1613.1	1706.2	1763.1	1941.0	1959.0
70°	5308.9	2236.9	1283.8	1136.5	1153.2	1315.8	1468.6	1574.2	1659.0	1893.7	1899.3
72.5°	3914.0	1834.0	1112.9	1000.4	1018.5	1160.1	1322.7	1445.0	1558.9	1775.6	1772.9
75°	2327.3	1433.8	923.9	862.8	875.3	1007.3	1190.7	1339.4	1510.3	1729.8	1756.2
77.5°	1411.7	1079.6	753.1	722.5	737.8	872.6	1096.2	1254.6	1489.5	1631.1	1622.8
80°	853.1	771.1	601.6	582.1	597.4	746.1	1014.3	1190.7	1301.8	1393.6	1393.6
82.5°	446.0	471.0	441.8	426.6	447.4	605.8	922.6	1039.2	1150.5	987.9	922.6
85°	182.0	245.9	268.2	266.8	279.3	419.6	796.1	889.3	742.0	704.4	721.1
87.5°	61.1	104.2	130.6	112.5	118.1	264.0	551.6	429.4	509.9	355.7	337.6
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)