

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: P383345

Luminaire Tested: **GLEON-SA6C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
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-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41056.1 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

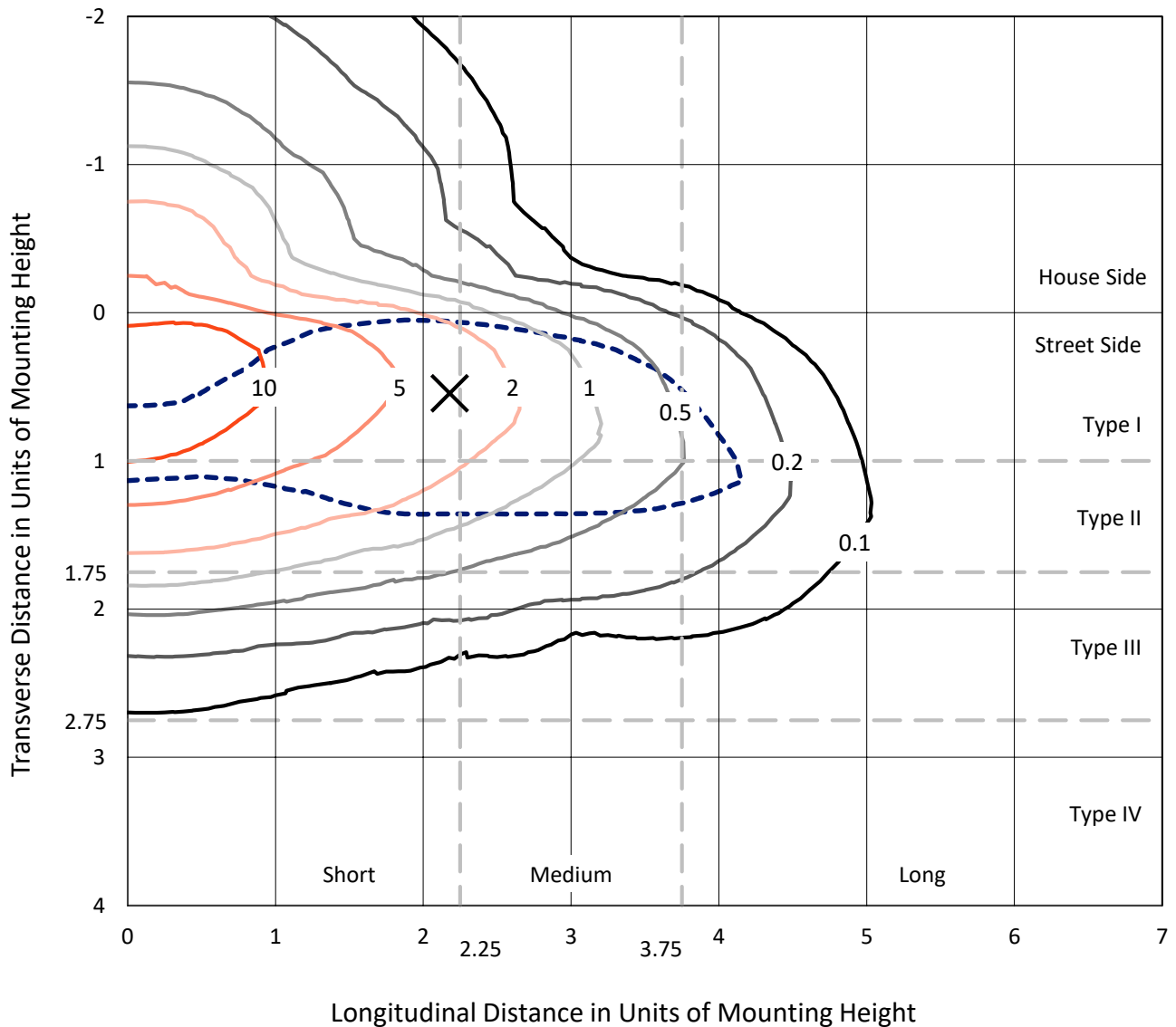
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

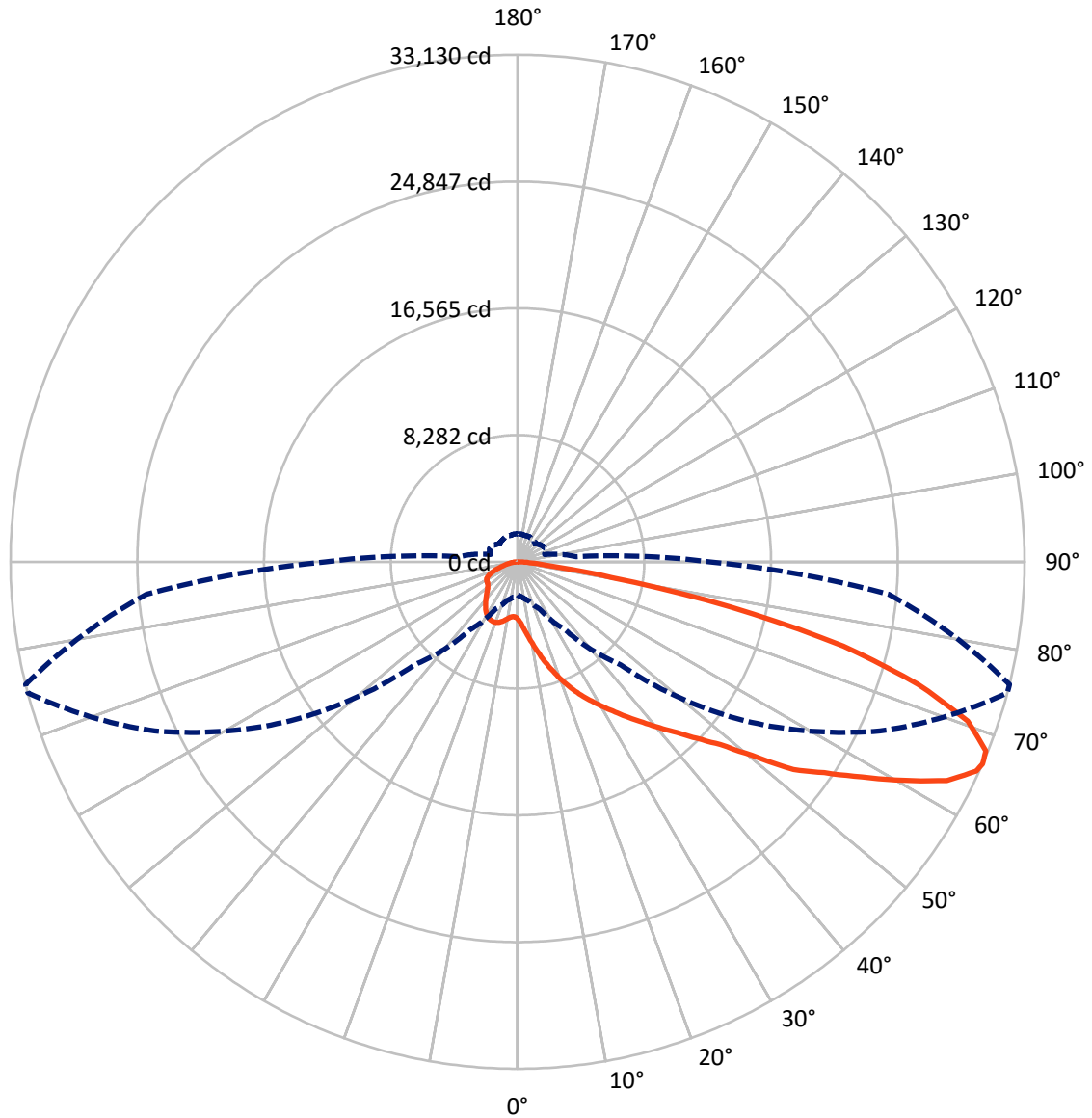
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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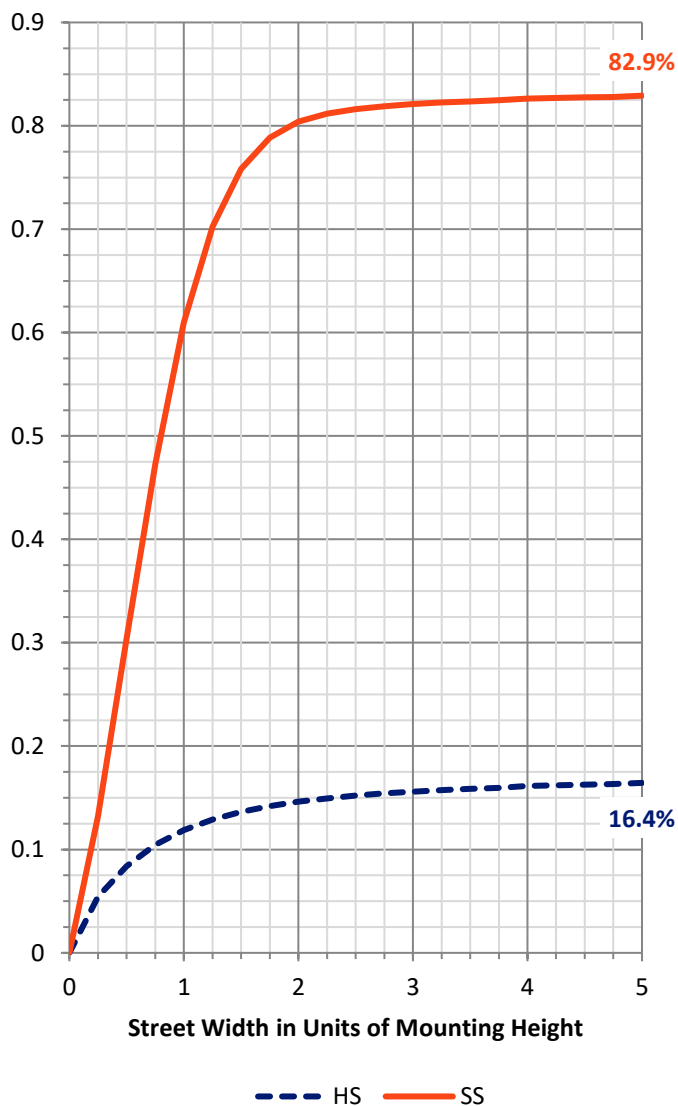
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6908.3	0.0	6908.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	34147.8	0.0	34147.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	41056.1	0.0	41056.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.4	1.1
10°-20°	1790.4	4.4
20°-30°	3479.3	8.5
30°-40°	5678.9	13.8
40°-50°	7758.8	18.9
50°-60°	9037.4	22.0
60°-70°	8102.2	19.7
70°-80°	4094.5	10.0
80°-90°	661.2	1.6
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°	41056.1	100.0
0°-180°	41056.1	100.0

**Coefficient of Utilization**



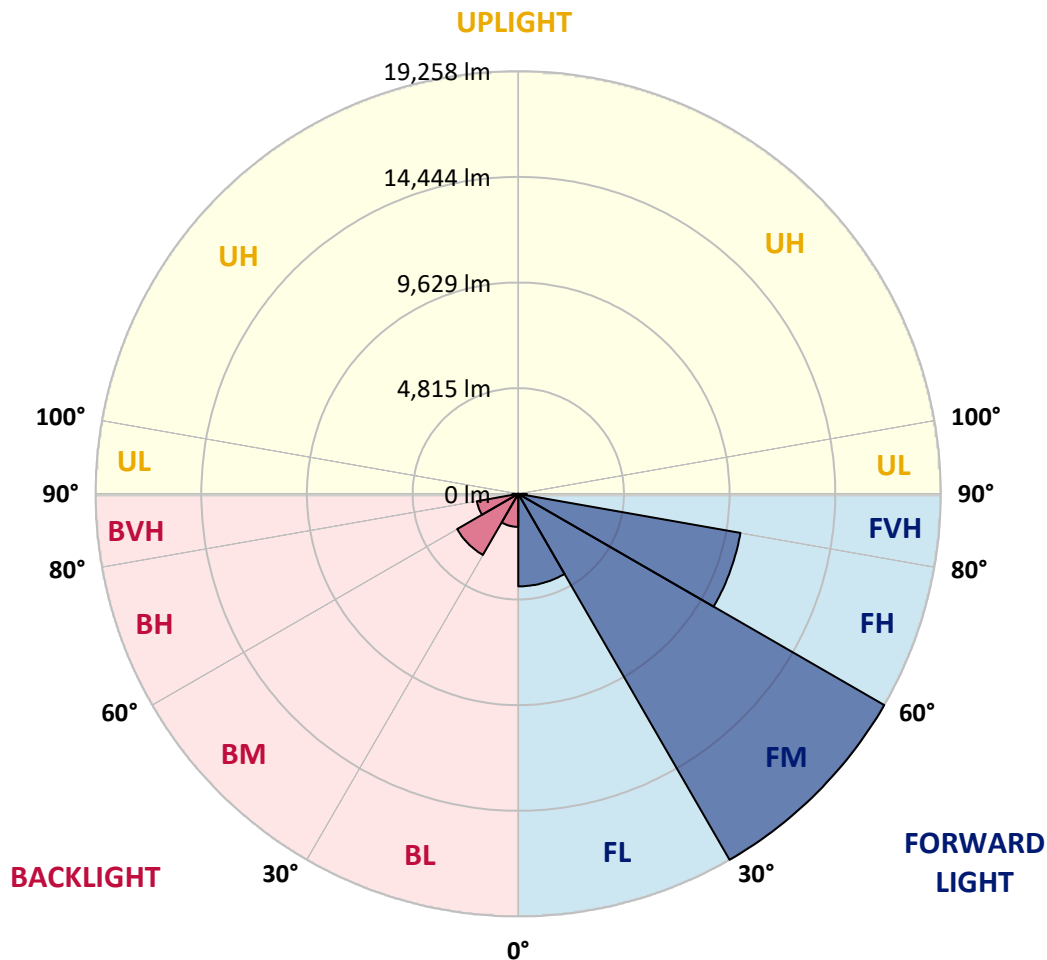
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4216.4	10.3			
FM (30°-60°)	19258.2	46.9			
FH (60°-80°)	10282.8	25.0			G4/12000
FVH (80°-90°)	390.5	1.0			G3/500
BL (0°-30°)	1506.7	3.7	B3/2500		
BM (30°-60°)	3216.9	7.8	B3/5000		
BH (60°-80°)	1913.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	270.7	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4
2.5°	4977.3	4902.0	4895.1	4785.0	4759.8	4549.4	4394.7	4233.0	4049.0	4012.7	3867.8
5°	6393.4	6386.4	6290.3	6110.5	5969.7	5610.1	5254.7	4878.3	4465.7	4398.9	4072.7
7.5°	7667.4	7656.2	7582.3	7388.6	7185.1	6743.3	6235.9	5658.9	4989.8	4890.9	4350.0
10°	8634.6	8630.5	8605.4	8463.2	8290.4	7866.6	7306.3	6518.9	5599.0	5463.7	4697.1
12.5°	9381.7	9390.1	9406.9	9356.7	9274.4	8913.4	8339.1	7430.4	6248.4	6114.7	5083.3
15°	9887.7	9912.8	9999.2	10070.3	10113.4	9891.8	9335.7	8362.9	6976.0	6815.8	5511.1
17.5°	10142.8	10170.6	10319.8	10534.4	10732.4	10710.0	10268.2	9252.1	7674.3	7519.6	5971.0
20°	10363.0	10383.9	10551.2	10809.0	11158.8	11313.6	11065.5	10107.9	8439.5	8255.6	6458.9
22.5°	11001.3	11027.8	11078.0	11224.3	11533.8	11818.1	11698.3	10917.7	9140.6	8969.1	6921.7
25°	12233.5	12265.5	12156.8	12032.8	12091.3	12289.3	12311.5	11656.5	9851.5	9657.7	7419.2
27.5°	13717.9	13763.9	13578.5	13259.3	12980.6	12903.9	12877.4	12261.3	10530.2	10305.8	7911.3
30°	15171.6	15251.0	15009.9	14596.0	14084.4	13724.9	13458.6	12853.7	11199.3	10984.6	8375.4
32.5°	16591.9	16559.8	16210.0	15805.8	15206.5	14756.3	14112.3	13489.3	11951.9	11705.2	8836.8
35°	17564.8	17576.0	17251.1	16771.7	16200.3	15854.6	14987.7	14175.1	12719.9	12492.7	9360.8
37.5°	18392.8	18341.1	17973.2	17525.8	17033.7	16886.0	16012.1	14930.5	13552.0	13303.9	9918.4
40°	18668.7	18608.8	18367.6	18045.7	17651.2	17638.7	17142.4	15786.3	14492.8	14247.6	10547.0
42.5°	18501.5	18424.8	18325.8	18238.0	18116.7	18172.4	18204.6	16789.8	15527.0	15252.4	11274.5
45°	17883.9	17768.2	17838.0	18028.9	18292.3	18607.4	19163.5	17900.7	16685.3	16455.3	12128.9
47.5°	16934.8	16830.3	17047.7	17456.1	18172.4	18969.8	20070.8	19127.3	18067.9	17839.3	13345.7
50°	15599.5	15630.2	15941.0	16683.9	17766.8	19137.0	21188.7	20751.1	20077.8	19864.6	15005.7
52.5°	13408.4	13414.0	14289.4	15509.0	17047.7	19050.6	21808.9	22826.5	22822.3	22564.4	16586.3
55°	11373.5	11497.5	12190.2	13811.2	15882.4	18704.9	22242.4	23835.5	24624.4	24322.0	18059.6
57.5°	9385.9	9458.4	10114.8	11742.8	14219.6	17783.6	22687.0	25046.8	26701.2	26510.3	19891.1
60°	7125.1	7236.6	7915.5	9419.3	12092.7	16148.7	22728.8	26310.9	29183.6	28991.3	21935.8
62.5°	4624.7	4817.0	5452.6	6861.7	9519.8	13797.3	21758.7	27137.5	31536.3	31468.1	23750.6
65°	2658.0	2802.9	3244.8	4332.0	6567.6	10845.3	19452.0	26819.7	32984.5	32945.5	24429.3
66°	2171.5	2262.2	2600.9	3385.5	5419.1	9523.9	18111.1	26149.3	33128.1	33129.5	24351.2
67.5°	1736.7	1777.1	1929.0	2423.8	3998.9	7548.9	15715.2	24670.5	32949.7	32998.4	23848.1
70°	1437.0	1458.0	1505.3	1625.2	2182.7	4552.2	11154.6	20827.7	31158.6	31196.2	21884.2
72.5°	1289.3	1301.8	1319.9	1336.7	1540.1	2543.7	6813.0	16661.6	27318.7	27367.5	18891.7
75°	1168.0	1175.0	1172.2	1173.6	1292.1	1621.0	3520.8	12439.8	22089.1	21991.5	14472.0
77.5°	1025.8	1032.8	1018.8	1021.6	1142.9	1246.0	1752.1	8708.5	14906.8	14218.2	8153.7
80°	867.0	872.5	867.0	876.7	995.2	940.9	1018.8	4899.2	6591.4	6234.5	2899.2
82.5°	655.1	678.8	695.5	734.5	819.6	669.0	681.6	1908.1	2007.1	1910.9	889.3
85°	287.1	349.9	524.1	561.7	616.0	401.4	447.4	777.7	816.8	791.7	323.3
87.5°	75.3	82.3	259.2	326.1	341.5	181.2	232.8	354.0	373.6	354.0	107.3
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°	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4	3749.4
2.5°	3791.1	3722.8	3600.2	3491.5	3409.3	3353.5	3297.8	3269.9	3253.2	3236.4	3239.2
5°	3912.4	3774.4	3564.0	3414.9	3331.2	3278.2	3250.4	3239.2	3232.3	3215.5	3215.5
7.5°	4095.0	3899.9	3609.9	3456.7	3391.1	3350.7	3334.0	3328.4	3320.0	3300.6	3303.4
10°	4325.0	4051.8	3706.2	3557.0	3497.0	3452.5	3428.7	3420.4	3405.1	3382.8	3385.5
12.5°	4595.4	4239.9	3832.9	3676.9	3604.4	3544.4	3505.4	3481.8	3455.3	3426.0	3427.3
15°	4890.9	4444.9	3969.6	3784.2	3685.2	3601.6	3538.9	3498.4	3456.7	3420.4	3419.1
17.5°	5190.6	4642.7	4074.1	3842.7	3709.0	3598.8	3513.8	3451.1	3399.5	3354.9	3350.7
20°	5513.9	4821.2	4132.6	3837.1	3664.3	3533.3	3420.4	3342.4	3285.2	3240.6	3233.7
22.5°	5842.9	4988.4	4142.4	3780.0	3565.4	3405.1	3286.6	3200.1	3141.6	3095.6	3079.0
25°	6143.9	5118.1	4102.0	3669.9	3427.3	3254.5	3138.8	3051.0	3003.7	2949.3	2932.6
27.5°	6418.5	5208.7	4021.1	3529.2	3272.6	3102.6	2993.9	2918.6	2867.0	2825.3	2811.3
30°	6665.2	5257.5	3888.7	3361.9	3113.8	2959.1	2867.0	2815.5	2770.9	2717.9	2708.2
32.5°	6899.3	5257.5	3718.6	3179.3	2956.3	2832.2	2777.9	2745.8	2695.6	2644.0	2630.1
35°	7133.5	5225.4	3518.0	2988.3	2811.3	2741.6	2738.8	2701.2	2624.5	2554.9	2536.7
37.5°	7380.2	5159.8	3292.2	2809.9	2692.8	2701.2	2724.9	2641.3	2532.6	2433.6	2407.1
40°	7659.0	5069.3	3058.0	2655.2	2593.9	2683.0	2687.2	2554.9	2343.0	2252.4	2228.7
42.5°	7986.5	4978.7	2840.6	2518.6	2515.8	2628.7	2616.2	2368.1	2241.2	2195.3	2182.7
45°	8417.2	4927.1	2634.3	2389.0	2454.5	2540.9	2495.0	2265.0	2212.0	2185.5	2174.3
47.5°	9096.0	4953.6	2444.8	2285.8	2393.1	2453.1	2269.2	2223.1	2185.5	2153.5	2142.3
50°	9946.2	4938.2	2291.4	2214.8	2323.5	2361.1	2167.3	2168.7	2149.3	2113.0	2096.3
52.5°	10586.0	4818.4	2192.5	2174.3	2262.2	2198.1	2103.2	2115.8	2106.0	2053.0	2035.0
55°	11203.4	4715.2	2142.3	2159.0	2217.5	1994.5	2028.0	2058.6	2048.9	1997.3	1988.9
57.5°	11971.4	4695.7	2111.6	2163.1	2179.9	1892.8	1955.5	1995.9	1988.9	1966.7	1962.5
60°	12912.3	4701.3	2083.8	2170.1	2138.1	1817.5	1887.2	1938.8	1942.9	1938.8	1936.0
62.5°	13429.4	4549.4	2014.1	2150.7	2064.2	1752.1	1816.1	1891.4	1892.8	1901.2	1899.8
65°	12990.3	4095.0	1884.4	2082.4	1940.2	1697.7	1754.8	1837.0	1816.1	1853.8	1853.8
66°	12563.8	3832.9	1820.3	2037.8	1887.2	1676.8	1735.3	1809.2	1782.7	1834.2	1834.2
67.5°	11692.7	3391.1	1704.6	1942.9	1812.0	1647.4	1713.0	1763.1	1726.9	1803.6	1798.0
70°	10101.0	2623.1	1471.8	1728.3	1687.9	1604.3	1682.3	1671.2	1618.2	1735.3	1713.0
72.5°	8516.2	1993.1	1181.9	1446.8	1499.7	1549.9	1639.2	1554.1	1487.2	1569.5	1520.7
75°	6608.0	1498.3	933.9	1124.8	1267.0	1464.9	1587.5	1418.9	1322.7	1314.3	1287.9
77.5°	3572.3	1028.6	740.1	858.6	1006.4	1358.9	1552.7	1274.0	1128.9	1095.5	1074.6
80°	1414.7	669.0	538.0	650.9	703.9	1205.6	1469.1	1105.3	931.1	897.6	865.6
82.5°	584.0	395.8	347.1	436.2	458.6	1031.4	1318.5	905.9	719.2	995.2	1056.5
85°	250.9	217.4	206.2	225.8	259.2	723.3	1049.6	691.3	776.4	692.7	550.5
87.5°	75.3	92.0	87.8	86.4	94.7	172.8	558.9	384.7	570.1	216.0	161.7
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)