

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: P455089

Luminaire Tested: **GALN-SA6B-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20414 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

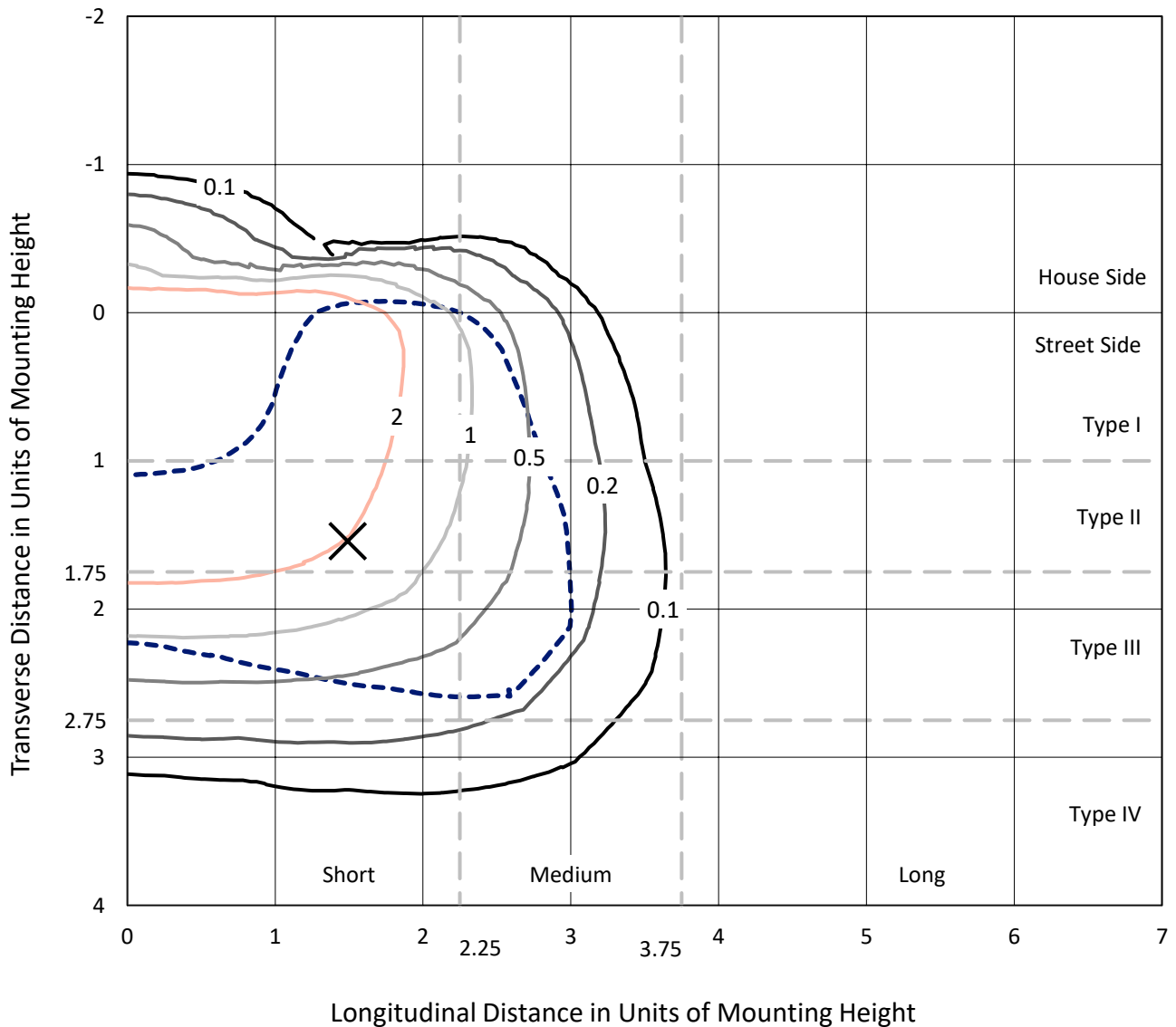
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

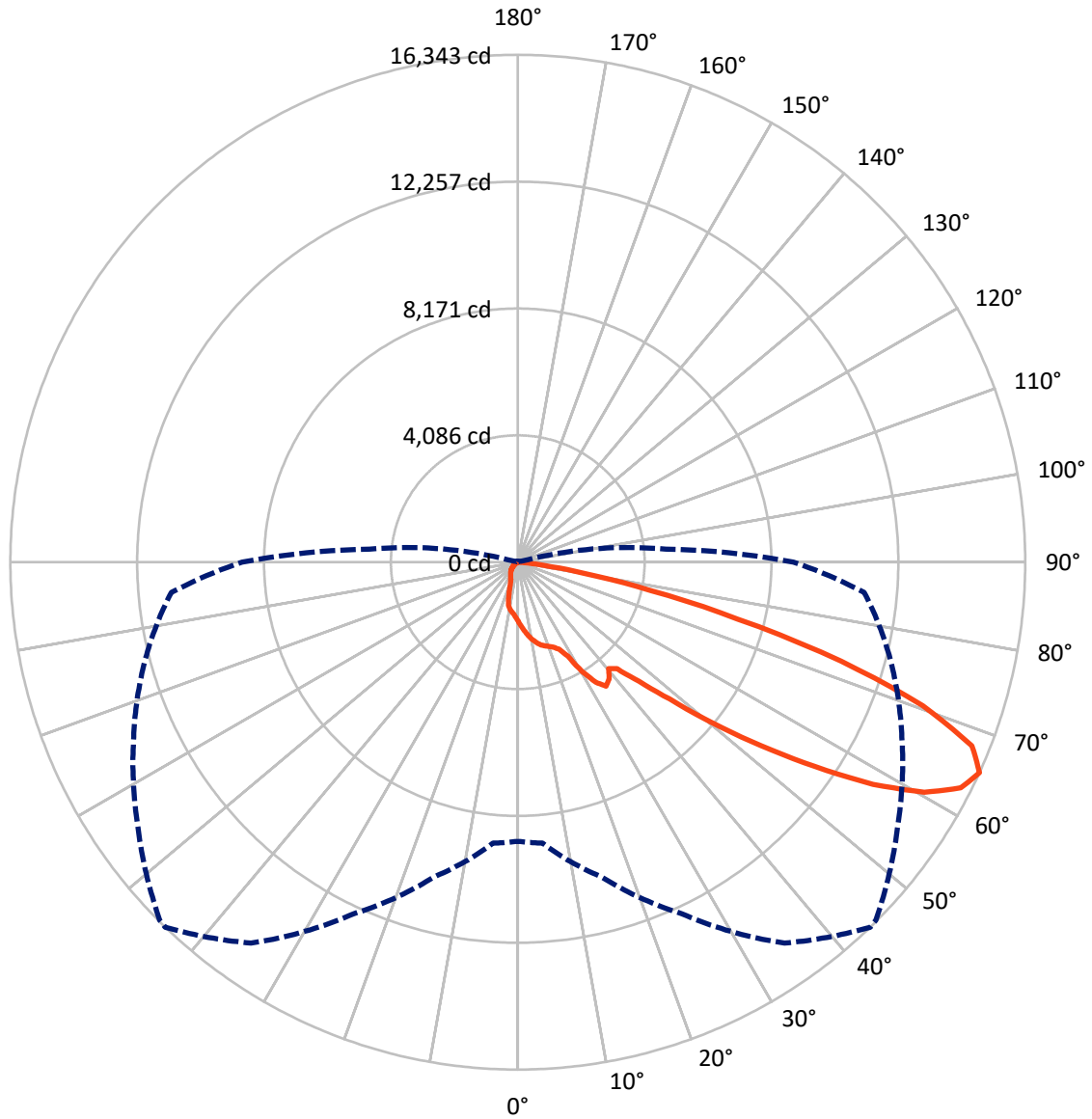
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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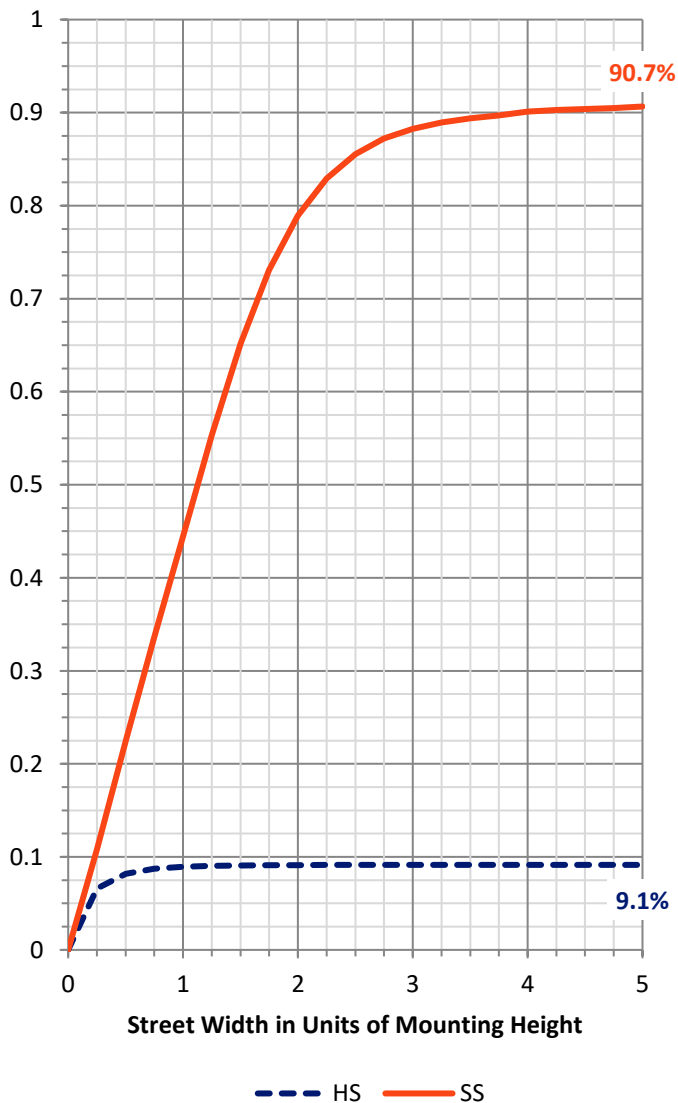
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1880.8	0.0	1880.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	18533.2	0.0	18533.2
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	20414.0	0.0	20414.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.0	0.9
10°-20°	568.7	2.8
20°-30°	964.4	4.7
30°-40°	1603.4	7.9
40°-50°	2799.6	13.7
50°-60°	5469.4	26.8
60°-70°	6345.8	31.1
70°-80°	2310.8	11.3
80°-90°	162.8	0.8
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°	20414.0	100.0
0°-180°	20414.0	100.0



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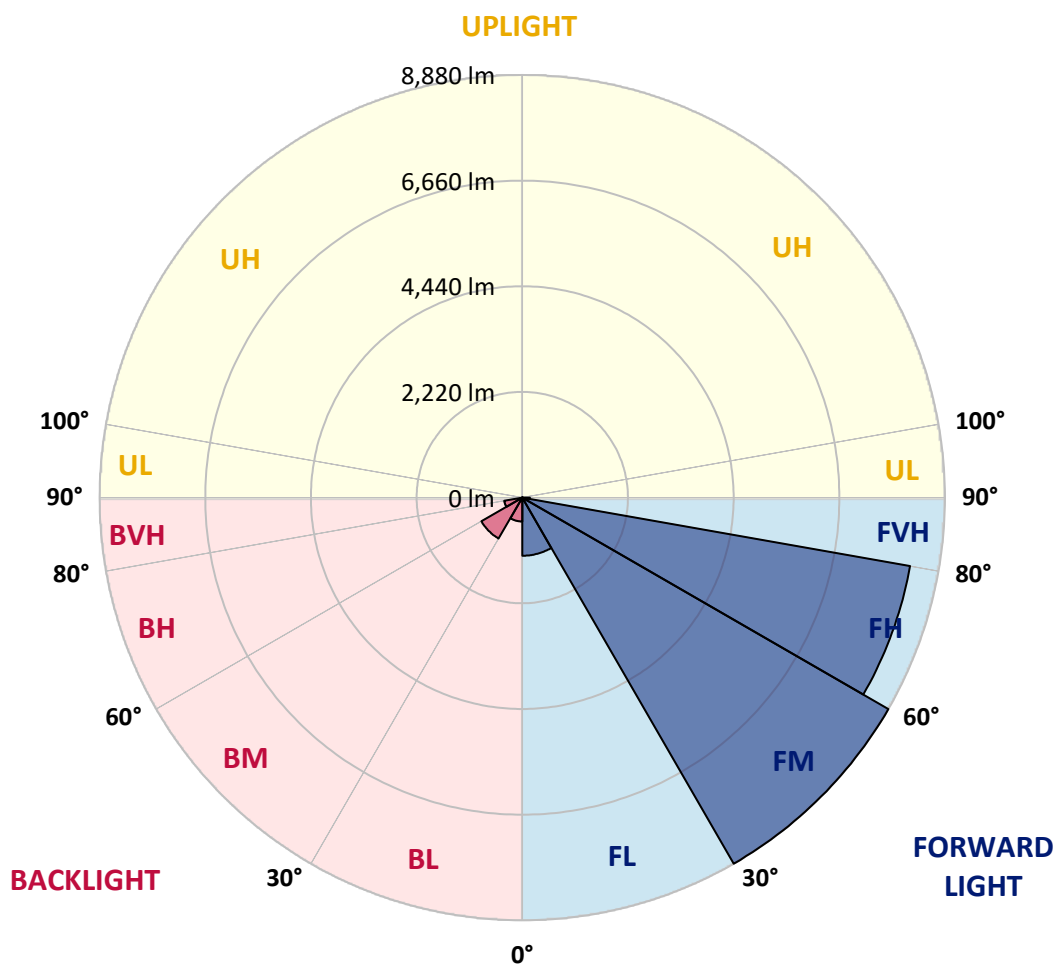
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1220.9	6.0			
FM	(30°-60°)	8880.1	43.5			
FH	(60°-80°)	8271.5	40.5			G4/12000
FVH	(80°-90°)	160.6	0.8			G2/225
BL	(0°-30°)	501.1	2.5	B2/1000		
BM	(30°-60°)	992.3	4.9	B1/1000		
BH	(60°-80°)	385.2	1.9	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	2138.6	2129.2	2124.6	2099.6	2080.9	2057.5	2057.5	2027.8	1993.5	1956.1	1921.8
5°	2377.3	2361.7	2341.4	2319.5	2275.9	2213.5	2213.5	2151.1	2079.3	2015.4	1945.2
7.5°	2606.6	2592.5	2558.2	2516.1	2444.3	2378.8	2374.1	2283.7	2197.9	2101.2	2001.3
10°	2807.8	2796.9	2767.2	2686.1	2611.2	2525.4	2523.9	2422.5	2322.7	2204.1	2080.9
12.5°	2948.2	2949.7	2910.7	2832.7	2736.0	2654.9	2648.7	2548.8	2444.3	2316.4	2165.1
15°	3048.0	3048.0	3007.4	2920.1	2832.7	2761.0	2754.7	2667.4	2559.8	2420.9	2257.1
17.5°	3076.1	3085.4	3041.8	2963.8	2893.6	2831.2	2829.6	2756.3	2670.5	2536.4	2350.7
20°	3065.2	3074.5	3040.2	2979.4	2931.0	2895.1	2890.5	2860.8	2781.3	2654.9	2450.6
22.5°	3041.8	3051.1	3026.2	2990.3	2966.9	2977.8	2970.0	2995.0	2952.9	2800.0	2569.1
25°	3046.4	3055.8	3037.1	3016.8	3037.1	3104.2	3124.4	3232.1	3194.6	2984.1	2697.0
27.5°	3193.1	3211.8	3185.3	3194.6	3266.4	3422.4	3461.4	3647.0	3481.7	3218.0	2896.7
30°	3519.1	3506.6	3456.7	3501.9	3751.5	4082.2	4071.3	4041.7	3782.7	3487.9	3133.8
32.5°	3815.5	3804.5	3801.4	3996.4	4448.8	4609.4	4601.6	4314.6	4052.6	3796.7	3367.8
35°	3935.6	3893.5	3884.1	4356.7	5113.3	4901.1	4852.8	4426.9	4380.1	4133.7	3606.4
37.5°	4297.5	4267.8	4122.8	4416.0	4848.1	4777.9	4740.5	4620.4	4729.6	4431.6	3876.3
40°	5043.1	4960.4	4829.4	4542.4	4472.2	4501.8	4539.3	4868.4	5142.9	4838.7	4236.6
42.5°	5969.7	5950.9	5707.6	5172.6	4646.9	4687.4	4735.8	5386.3	5737.2	5451.8	4824.7
45°	7081.9	7108.4	6757.4	6125.7	5436.2	5470.5	5540.7	6150.6	6542.1	6404.9	5749.7
47.5°	8092.7	8072.4	7953.8	7297.1	6660.7	6584.3	6698.1	7131.8	7655.9	7677.7	6897.8
50°	9109.7	9217.3	9041.1	8783.7	8311.0	8150.4	8108.3	8320.4	9119.1	9014.6	8276.7
52.5°	10571.3	10627.5	10296.8	10231.3	10338.9	9817.9	9775.8	9827.2	10541.7	10182.9	9309.4
55°	11490.1	11457.3	11334.1	11845.7	12271.6	11621.1	11568.1	11360.6	11722.5	11008.1	10303.0
57.5°	11780.2	11827.0	12114.0	13039.0	14046.7	13494.5	13397.8	12808.2	12574.2	11777.1	11217.1
60°	11650.7	11736.5	12355.8	13731.6	15129.3	15046.6	14963.9	13973.4	13185.7	12419.8	11858.2
62.5°	10728.9	10849.0	11839.5	13608.4	15495.9	16012.2	15909.2	14700.3	13592.8	12731.7	11970.5
65°	8991.2	9080.1	10502.7	12490.0	14974.9	16342.9	16305.4	14928.1	13656.8	12446.3	11201.5
67.5°	6409.5	6712.2	8030.3	10526.1	13433.7	15778.2	15842.1	14655.1	13056.2	11212.4	9276.6
70°	4029.2	4235.1	5180.4	7535.8	10769.4	13842.4	14053.0	13405.6	11331.0	8740.0	6209.9
72.5°	1921.8	2074.6	2748.5	4770.1	7601.3	10891.1	11058.0	11005.0	8761.8	5506.4	3204.0
75°	856.4	914.1	1311.9	2435.0	4907.4	7320.5	7752.6	7824.4	5475.2	2693.9	1246.3
77.5°	436.8	438.3	614.6	1179.3	2450.6	4367.7	4453.5	4704.6	2968.5	1187.1	433.6
80°	232.4	248.0	326.0	556.9	1271.3	2151.1	2140.2	2352.3	1316.5	581.8	145.1
82.5°	104.5	115.4	184.1	291.7	620.8	815.8	879.8	962.4	564.7	371.3	64.0
85°	31.2	37.4	90.5	146.6	224.6	235.5	263.6	340.1	319.8	263.6	32.8
87.5°	4.7	4.7	37.4	40.6	32.8	42.1	43.7	48.4	103.0	96.7	17.2
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°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	1903.1	1892.1	1853.1	1820.4	1792.3	1775.1	1754.9	1742.4	1736.1	1731.5	1733.0
5°	1910.9	1884.3	1817.3	1764.2	1723.7	1680.0	1650.4	1633.2	1625.4	1612.9	1612.9
7.5°	1954.5	1912.4	1818.8	1737.7	1667.5	1608.2	1552.1	1531.8	1517.8	1514.6	1511.5
10°	2016.9	1963.9	1836.0	1723.7	1623.8	1542.7	1463.2	1393.0	1338.4	1305.6	1300.9
12.5°	2094.9	2018.5	1862.5	1714.3	1586.4	1442.9	1232.3	1090.4	995.2	965.6	970.2
15°	2166.7	2084.0	1889.0	1706.5	1517.8	1196.4	957.8	795.5	747.2	742.5	744.1
17.5°	2252.5	2154.2	1920.2	1695.6	1329.0	914.1	711.3	667.6	677.0	692.6	691.0
20°	2341.4	2229.1	1957.7	1630.1	1060.7	687.9	628.6	633.3	647.4	661.4	664.5
22.5°	2436.5	2314.9	2001.3	1472.5	809.6	599.0	595.9	602.1	616.2	631.8	634.9
25°	2567.6	2422.5	2034.1	1266.6	613.0	553.8	560.0	570.9	583.4	600.6	603.7
27.5°	2736.0	2567.6	2051.2	998.3	530.4	513.2	514.8	530.4	546.0	561.6	561.6
30°	2954.4	2740.7	2016.9	755.0	489.8	474.2	468.0	477.3	497.6	513.2	514.8
32.5°	3149.4	2904.5	1926.5	577.2	460.2	438.3	422.7	424.3	432.1	441.4	443.0
35°	3344.4	3063.6	1772.0	485.1	429.0	404.0	380.6	368.1	361.9	357.2	361.9
37.5°	3594.0	3261.7	1566.1	441.4	402.4	371.3	338.5	312.0	290.1	276.1	279.2
40°	3915.3	3536.2	1322.8	413.4	377.5	340.1	296.4	262.1	224.6	212.1	205.9
42.5°	4445.7	3952.7	1067.0	390.0	352.5	307.3	252.7	205.9	171.6	159.1	162.2
45°	5283.3	4478.4	822.1	365.0	327.6	271.4	212.1	162.2	134.1	127.9	131.0
47.5°	6394.0	5158.5	633.3	336.9	296.4	232.4	166.9	127.9	110.8	109.2	107.6
50°	7439.1	5791.8	528.8	305.7	258.9	193.4	137.3	107.6	96.7	95.2	95.2
52.5°	8384.4	6245.8	430.5	269.9	218.4	159.1	115.4	95.2	85.8	81.1	81.1
55°	9225.1	6542.1	349.4	226.2	171.6	126.4	99.8	85.8	74.9	68.6	67.1
57.5°	9860.0	6578.0	262.1	180.9	127.9	98.3	85.8	74.9	62.4	54.6	51.5
60°	10131.4	6267.6	193.4	137.3	95.2	78.0	68.6	60.8	46.8	39.0	37.4
62.5°	9858.4	5663.9	143.5	104.5	73.3	57.7	48.4	45.2	32.8	23.4	21.8
65°	8880.4	4792.0	113.9	79.6	54.6	42.1	31.2	29.6	20.3	10.9	9.4
67.5°	7114.6	3753.1	90.5	59.3	39.0	28.1	20.3	18.7	10.9	3.1	3.1
70°	4626.6	2399.1	73.3	43.7	25.0	18.7	12.5	9.4	6.2	1.6	0.0
72.5°	2288.3	1121.6	59.3	34.3	17.2	9.4	4.7	3.1	4.7	0.0	0.0
75°	887.6	399.3	43.7	23.4	9.4	4.7	3.1	0.0	1.6	0.0	0.0
77.5°	294.8	132.6	26.5	12.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	109.2	51.5	14.0	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	43.7	20.3	9.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.8	12.5	6.2	4.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	9.4	6.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	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)