

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: P646865

Luminaire Tested: **GALN-SA3C-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16396.8 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

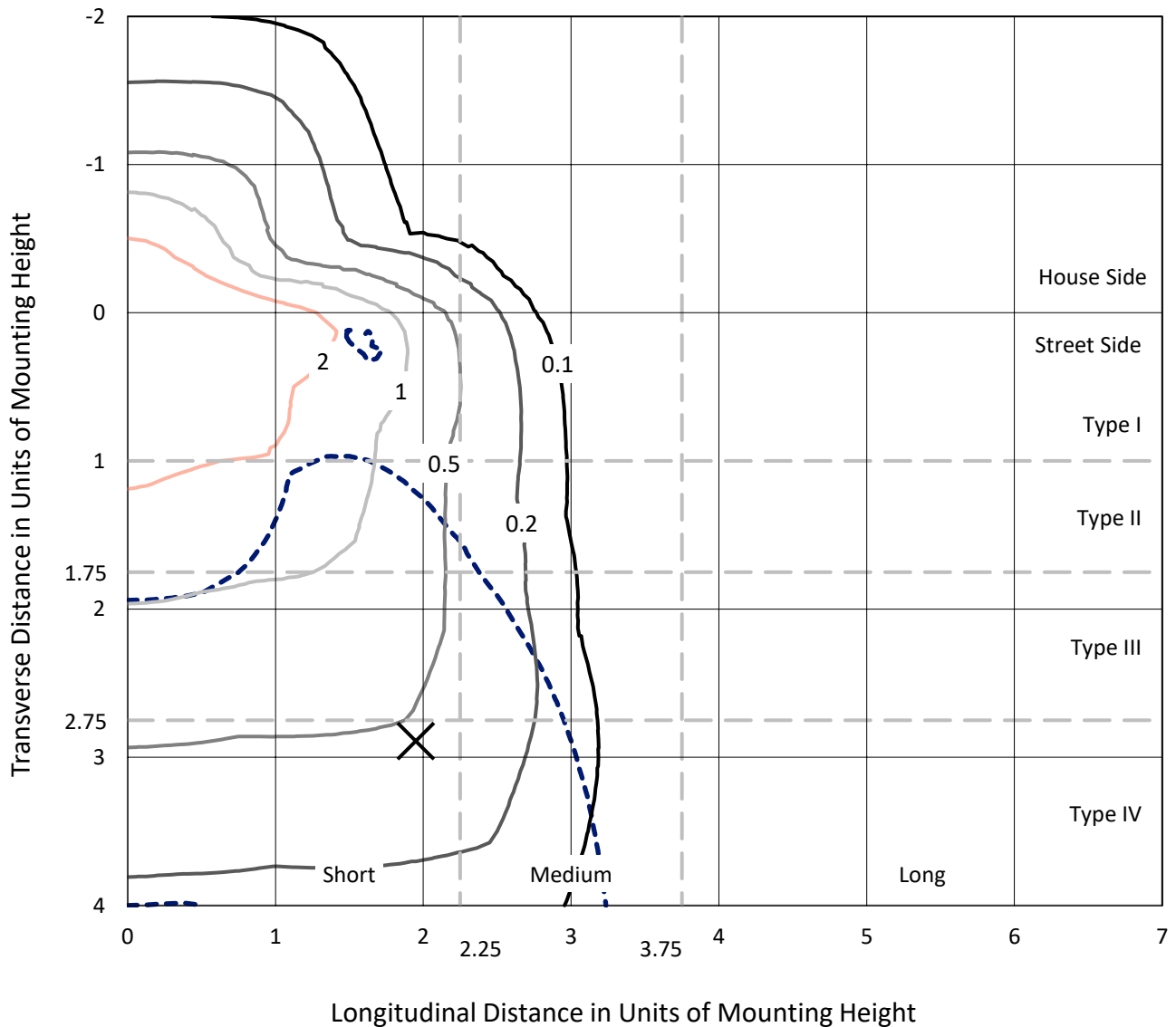
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

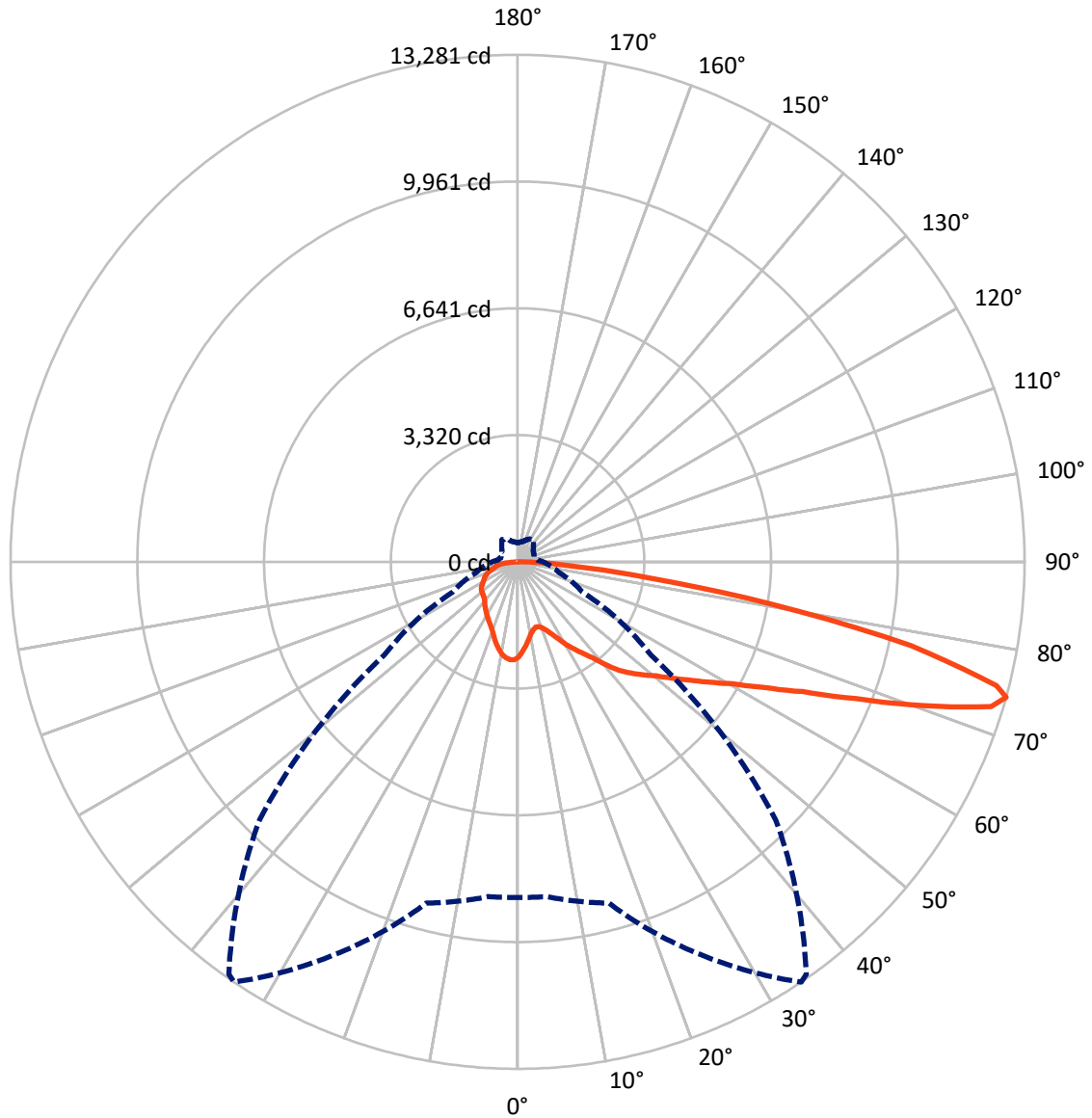
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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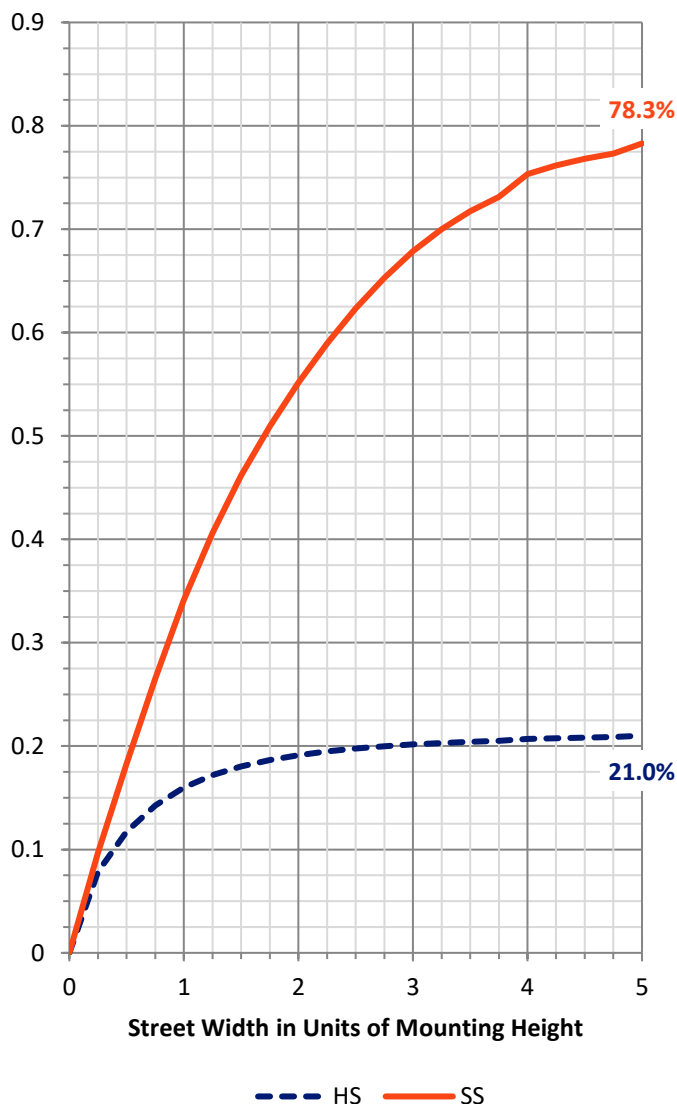
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3489.4	0.0	3489.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	12907.4	0.0	12907.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	16396.8	0.0	16396.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.7	1.4
10°-20°	623.3	3.8
20°-30°	1027.6	6.3
30°-40°	1539.2	9.4
40°-50°	2237.6	13.6
50°-60°	3125.4	19.1
60°-70°	3912.9	23.9
70°-80°	3235.6	19.7
80°-90°	467.5	2.9
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°	16396.8	100.0
0°-180°	16396.8	100.0

**Coefficient of Utilization**

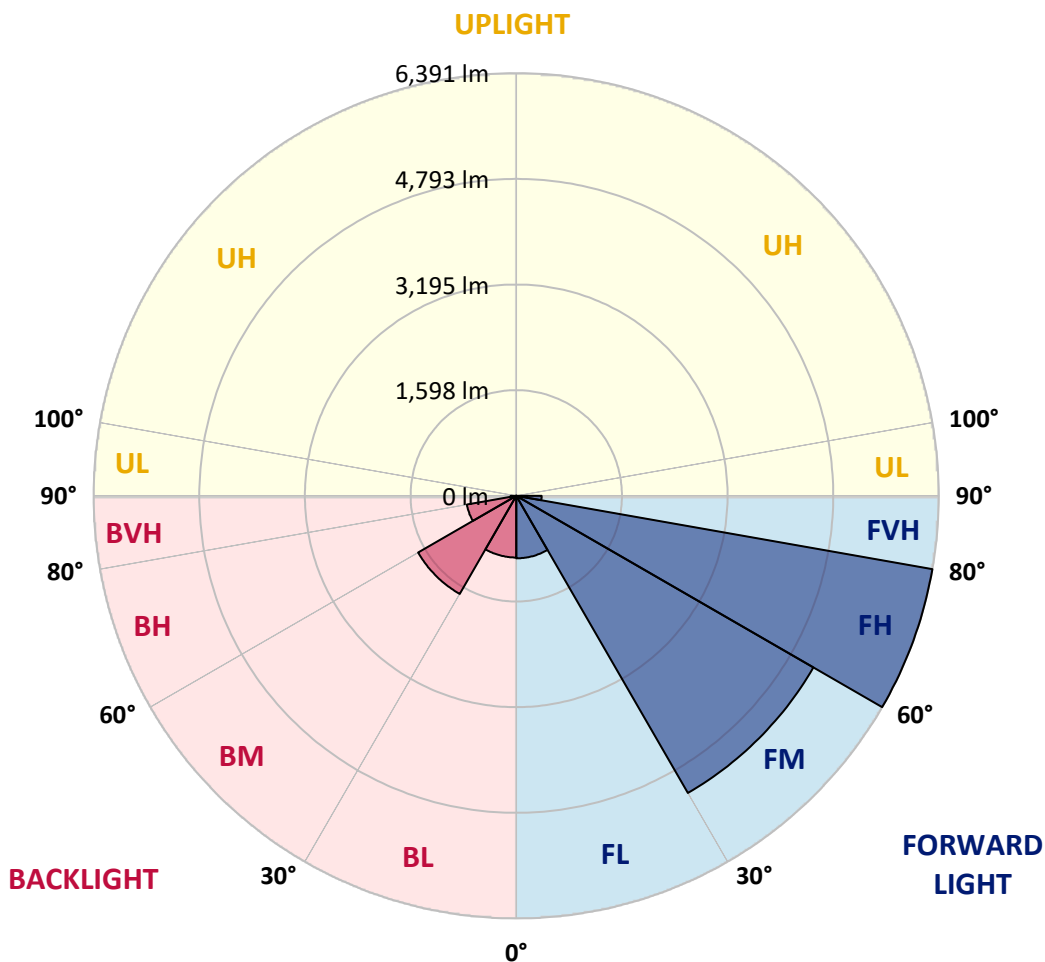


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.2	5.8			
FM (30°-60°)	5188.6	31.6			
FH (60°-80°)	6390.6	39.0			G3/7500
FVH (80°-90°)	383.0	2.3			G3/500
BL (0°-30°)	933.3	5.7	B2/1000		
BM (30°-60°)	1713.6	10.5	B2/2500		
BH (60°-80°)	757.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	84.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5
2.5°	2313.6	2325.4	2331.8	2354.5	2360.0	2367.2	2386.3	2411.7	2444.4	2473.5	2498.9
5°	2121.1	2139.2	2150.1	2170.1	2209.2	2212.8	2263.7	2321.8	2388.1	2449.9	2500.7
7.5°	1938.5	1958.4	1967.5	2003.9	2055.6	2063.8	2138.3	2230.1	2340.9	2434.4	2512.6
10°	1801.3	1811.3	1831.3	1858.5	1920.3	1925.7	2023.0	2145.6	2289.1	2427.1	2532.5
12.5°	1726.8	1732.2	1736.8	1765.9	1826.7	1834.9	1936.7	2075.7	2248.2	2432.6	2565.3
15°	1737.7	1739.5	1719.5	1725.0	1774.0	1785.9	1886.7	2029.3	2222.8	2446.2	2614.3
17.5°	1829.5	1823.1	1774.0	1748.6	1783.1	1788.6	1876.7	2011.1	2211.0	2471.7	2665.2
20°	1973.9	1964.8	1880.3	1824.0	1844.0	1848.5	1909.4	2024.8	2222.8	2513.4	2744.2
22.5°	2153.7	2150.1	2022.0	1953.9	1953.0	1953.0	1984.8	2073.8	2258.2	2570.7	2826.9
25°	2405.4	2386.3	2219.2	2131.0	2106.5	2104.7	2101.0	2154.7	2303.7	2631.6	2925.0
27.5°	2663.4	2630.6	2481.6	2346.3	2293.6	2287.3	2263.7	2269.1	2361.8	2700.6	3036.7
30°	2895.0	2874.1	2734.2	2584.3	2521.7	2507.1	2441.7	2411.7	2458.9	2825.1	3214.7
32.5°	3072.1	3059.4	2950.4	2814.1	2721.5	2718.7	2623.4	2598.9	2610.7	2975.8	3418.2
35°	3215.6	3220.2	3164.7	3046.7	2940.4	2925.0	2861.4	2830.5	2795.9	3193.9	3674.4
37.5°	3411.8	3421.9	3418.2	3316.5	3186.6	3190.2	3175.7	3124.8	3033.0	3437.3	3958.7
40°	3628.0	3635.3	3634.4	3595.3	3527.2	3530.9	3525.4	3467.3	3330.1	3747.0	4274.8
42.5°	3926.9	3892.4	3802.4	3841.5	3881.5	3898.7	3936.0	3880.5	3692.5	4077.7	4571.9
45°	4261.2	4195.8	3992.3	4010.4	4158.5	4191.2	4396.5	4320.2	4085.9	4457.4	4921.5
47.5°	4471.9	4407.4	4235.7	4232.1	4428.3	4460.1	4823.4	4795.2	4443.8	4867.0	5348.5
50°	4659.9	4650.9	4457.4	4503.7	4695.3	4742.6	5288.5	5262.2	4800.7	5350.3	5813.5
52.5°	4938.8	4865.2	4710.8	4806.2	5059.6	5121.4	5750.0	5672.8	5128.7	5777.2	6265.0
55°	5064.1	5046.9	5037.8	5120.5	5468.4	5512.9	6198.7	6021.6	5408.4	6138.8	6608.4
57.5°	5399.3	5367.5	5457.5	5513.8	5949.9	6018.0	6667.4	6385.8	5653.7	6425.8	6775.5
60°	5833.6	5816.3	5899.0	6000.7	6487.5	6591.1	7201.6	6696.5	5850.8	6570.2	6683.8
62.5°	6482.1	6480.3	6464.8	6682.9	7249.7	7345.1	7814.7	6999.0	5881.7	6462.2	6209.6
65°	7412.3	7379.6	7245.2	7483.1	8198.0	8309.7	8453.3	7168.0	5695.5	5907.1	5228.6
67.5°	8385.1	8383.3	8274.4	8583.2	9559.6	9675.1	9251.8	7130.7	5178.6	4785.3	3713.4
70°	9191.8	9152.7	9291.7	10114.7	11299.2	11432.7	9950.3	6692.0	4124.9	3160.2	2206.4
72.5°	9385.3	9387.1	9675.9	11295.6	12969.7	12990.6	10201.9	5423.8	2760.5	1743.2	1103.6
74°	8789.4	8804.8	9252.6	11354.6	13281.2	13186.8	9558.8	4263.0	1866.7	1138.2	795.8
75°	8022.7	7925.5	8573.2	10961.3	12957.9	12856.2	8805.8	3420.9	1424.4	909.3	696.7
77.5°	4289.4	4388.3	5387.5	8179.8	10527.1	10409.9	5970.7	1640.5	769.4	633.1	501.4
80°	1527.0	1684.2	2367.2	4280.3	6749.2	6785.6	2849.6	752.1	541.4	466.9	354.2
82.5°	623.1	640.4	1016.5	1899.4	3427.3	3460.0	1163.6	446.9	387.0	321.6	211.6
85°	243.4	250.7	449.7	853.9	1462.5	1557.9	402.4	236.2	238.0	184.4	108.1
87.5°	81.7	92.6	184.4	284.3	496.9	486.9	117.2	69.9	85.4	79.9	33.6
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°	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5	2503.5
2.5°	2511.6	2528.9	2540.7	2553.4	2565.3	2568.9	2566.1	2574.3	2575.2	2576.1	2577.0
5°	2526.2	2549.8	2572.5	2585.2	2590.6	2586.1	2570.7	2562.5	2555.2	2549.8	2551.6
7.5°	2546.2	2579.8	2600.7	2606.1	2591.6	2570.7	2532.5	2502.5	2483.5	2470.8	2469.9
10°	2577.0	2609.7	2627.0	2611.5	2571.6	2520.7	2460.8	2404.4	2361.8	2349.1	2348.1
12.5°	2616.1	2653.4	2652.4	2607.0	2537.1	2446.2	2349.1	2283.6	2225.5	2196.5	2208.2
15°	2667.0	2695.2	2668.8	2587.0	2476.2	2351.7	2231.9	2142.8	2077.5	2046.5	2048.4
17.5°	2726.0	2750.5	2680.6	2551.6	2390.8	2230.9	2091.9	2007.5	1955.7	1933.0	1931.2
20°	2799.6	2806.9	2680.6	2489.9	2280.9	2090.1	1957.5	1898.5	1869.4	1857.6	1861.3
22.5°	2878.6	2864.1	2666.0	2402.6	2136.5	1943.0	1854.0	1827.7	1813.1	1811.3	1813.1
25°	2967.6	2926.8	2636.1	2284.6	1985.7	1815.9	1764.0	1768.6	1771.3	1771.3	1777.6
27.5°	3076.6	2994.9	2586.1	2135.6	1809.4	1697.8	1683.2	1715.0	1729.6	1732.2	1736.8
30°	3220.2	3069.4	2503.5	1949.4	1659.6	1591.4	1616.9	1659.6	1675.9	1686.0	1684.2
32.5°	3390.9	3151.1	2391.8	1763.2	1538.8	1517.0	1547.8	1591.4	1609.6	1615.1	1607.8
35°	3591.7	3243.8	2244.5	1588.7	1433.4	1446.1	1482.5	1496.1	1512.4	1512.4	1516.0
37.5°	3807.9	3318.3	2064.7	1428.9	1351.7	1398.0	1424.4	1411.6	1404.3	1395.2	1399.8
40°	4027.7	3373.7	1831.3	1270.8	1269.9	1348.0	1355.3	1319.0	1289.9	1280.8	1276.3
42.5°	4219.4	3408.2	1620.5	1148.2	1192.7	1299.0	1304.4	1246.3	1199.9	1172.7	1163.6
45°	4445.6	3448.2	1414.3	1046.5	1120.9	1259.9	1273.5	1195.4	1127.3	1070.0	1055.6
47.5°	4755.3	3539.0	1251.7	967.4	1069.2	1235.4	1254.4	1153.6	1063.7	989.2	977.4
50°	5105.0	3663.4	1125.5	913.8	1029.2	1213.6	1237.2	1110.9	1004.7	922.0	912.9
52.5°	5425.7	3730.7	1016.5	865.7	990.1	1173.6	1214.5	1080.1	946.5	854.8	846.6
55°	5601.0	3621.7	909.3	818.5	936.5	1121.8	1182.7	1037.4	890.2	819.3	807.5
57.5°	5624.6	3396.4	812.0	767.6	880.2	1058.2	1123.7	985.6	853.9	794.8	784.8
60°	5442.0	3060.3	736.7	725.8	823.0	986.5	1057.4	940.1	816.6	767.6	757.6
62.5°	4987.9	2695.2	684.0	687.6	764.8	911.1	1008.3	896.5	781.2	737.6	728.5
65°	4206.7	2224.6	633.1	648.6	713.1	852.1	963.8	860.2	745.8	714.9	706.7
67.5°	2922.2	1606.0	591.3	607.7	664.0	792.1	912.0	821.1	705.8	689.4	676.7
70°	1617.8	988.3	542.3	561.4	613.2	724.9	853.9	762.1	647.7	640.4	622.3
72.5°	850.3	629.5	486.9	507.8	544.1	638.6	764.8	697.7	590.5	559.5	536.0
74°	664.0	515.9	449.7	471.4	496.0	587.7	712.1	651.3	549.6	513.3	495.1
75°	578.6	459.6	417.9	446.0	467.8	553.2	671.3	618.6	526.9	492.4	476.0
77.5°	408.8	344.3	341.5	375.1	387.0	485.1	604.9	563.2	469.6	433.3	417.9
80°	287.0	258.0	270.7	291.6	308.0	428.8	561.4	486.9	385.2	342.5	337.0
82.5°	187.1	169.0	193.5	212.6	218.0	316.1	453.3	369.7	280.7	228.0	211.6
85°	86.3	84.5	110.8	108.1	107.2	154.4	268.9	216.2	161.7	120.8	113.5
87.5°	21.8	20.9	27.2	22.7	27.2	23.6	24.5	6.3	0.9	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)