

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: P647271

Luminaire Tested: **GALN-SA2D-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9969.1 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

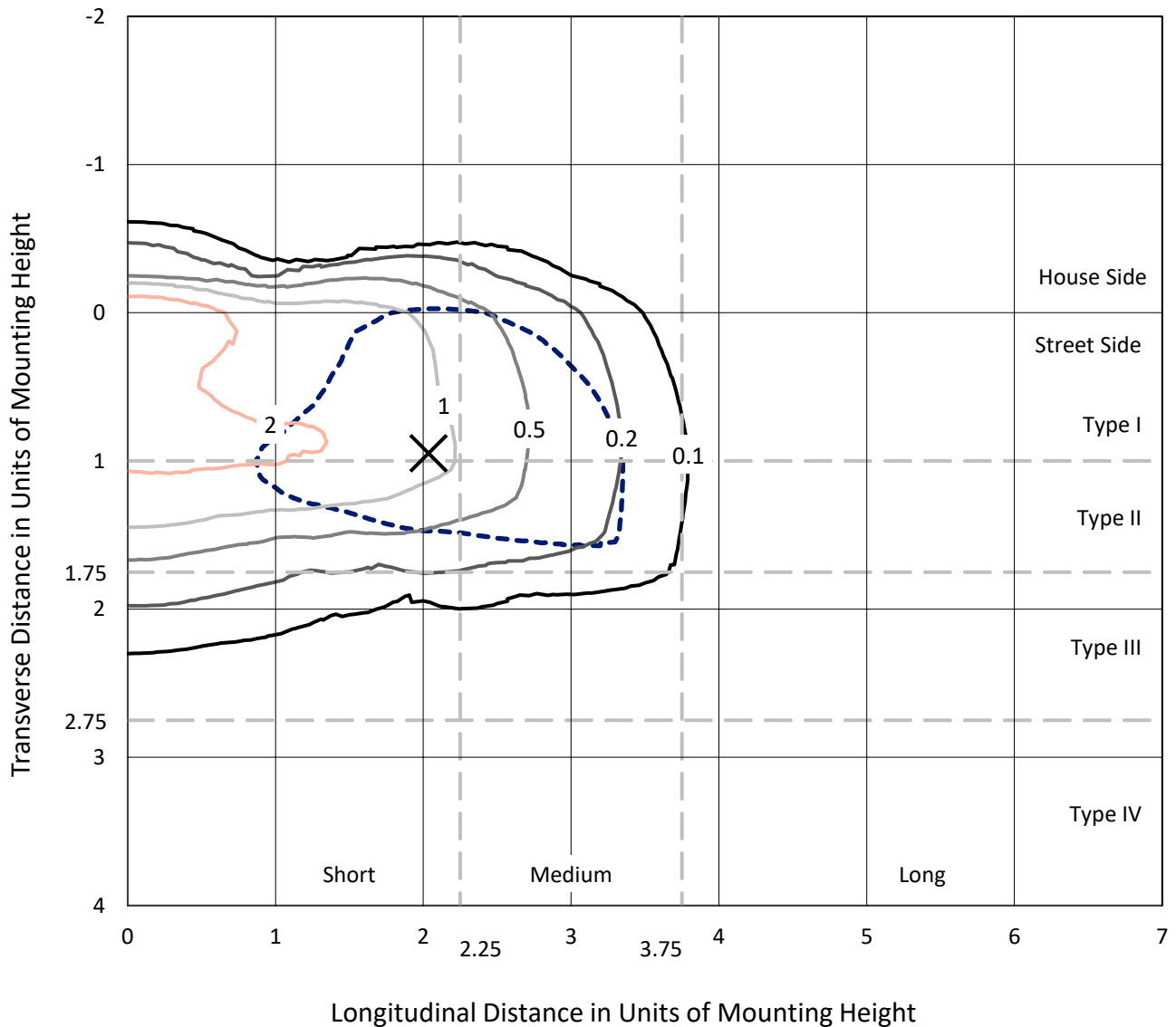
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

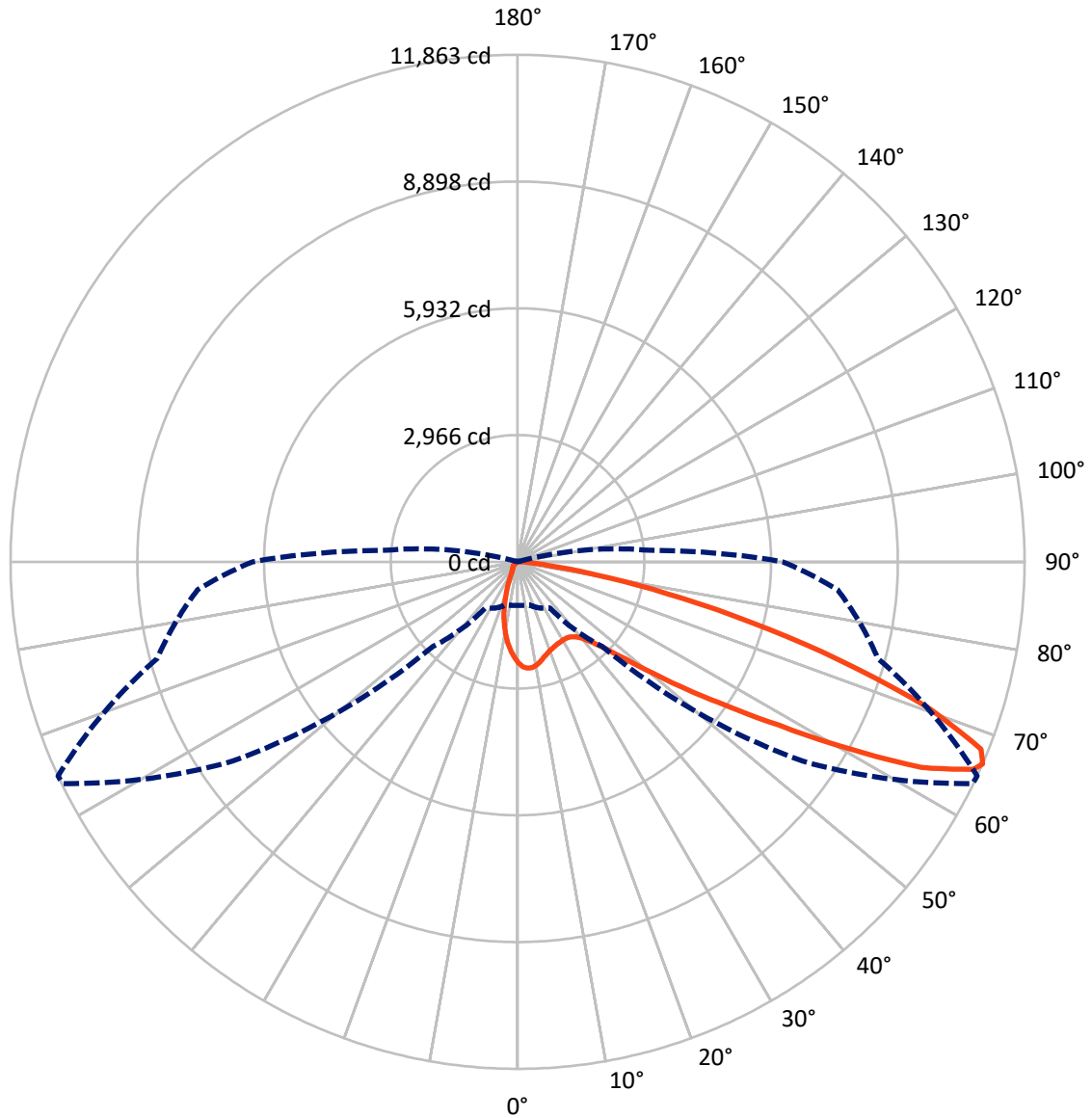
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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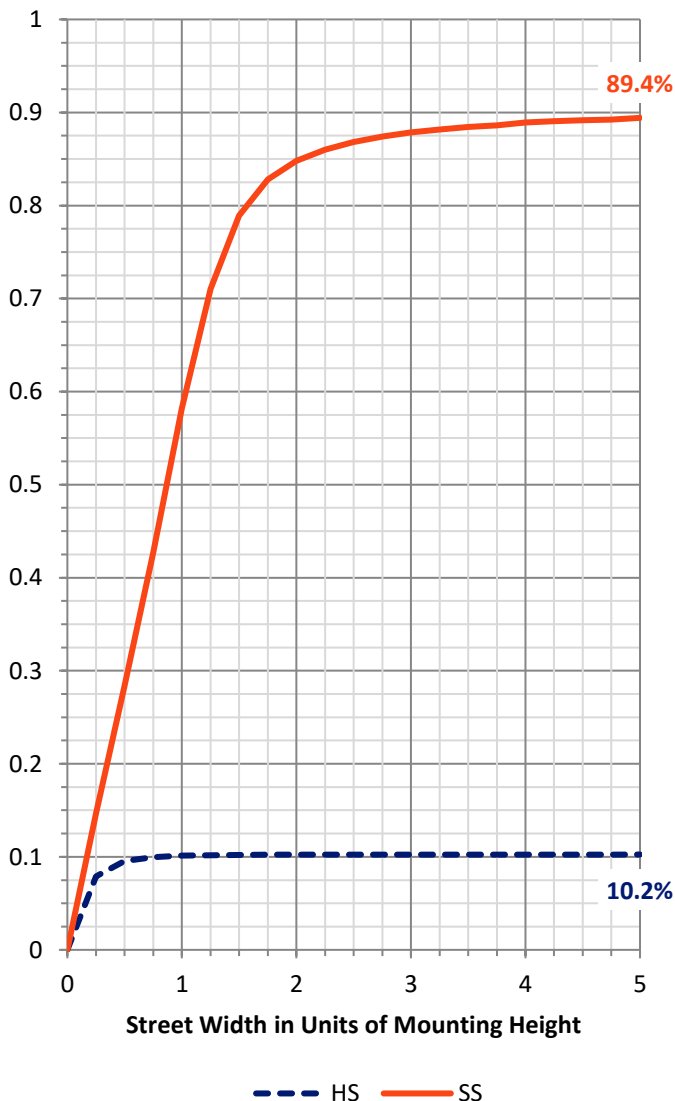
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1030.9	0.0	1030.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	8938.2	0.0	8938.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	9969.1	0.0	9969.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	1.9
10°-20°	421.3	4.2
20°-30°	603.5	6.1
30°-40°	881.4	8.8
40°-50°	1478.0	14.8
50°-60°	2466.5	24.7
60°-70°	2618.1	26.3
70°-80°	1185.7	11.9
80°-90°	121.3	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°	9969.1	100.0
0°-180°	9969.1	100.0

**Coefficient of Utilization**



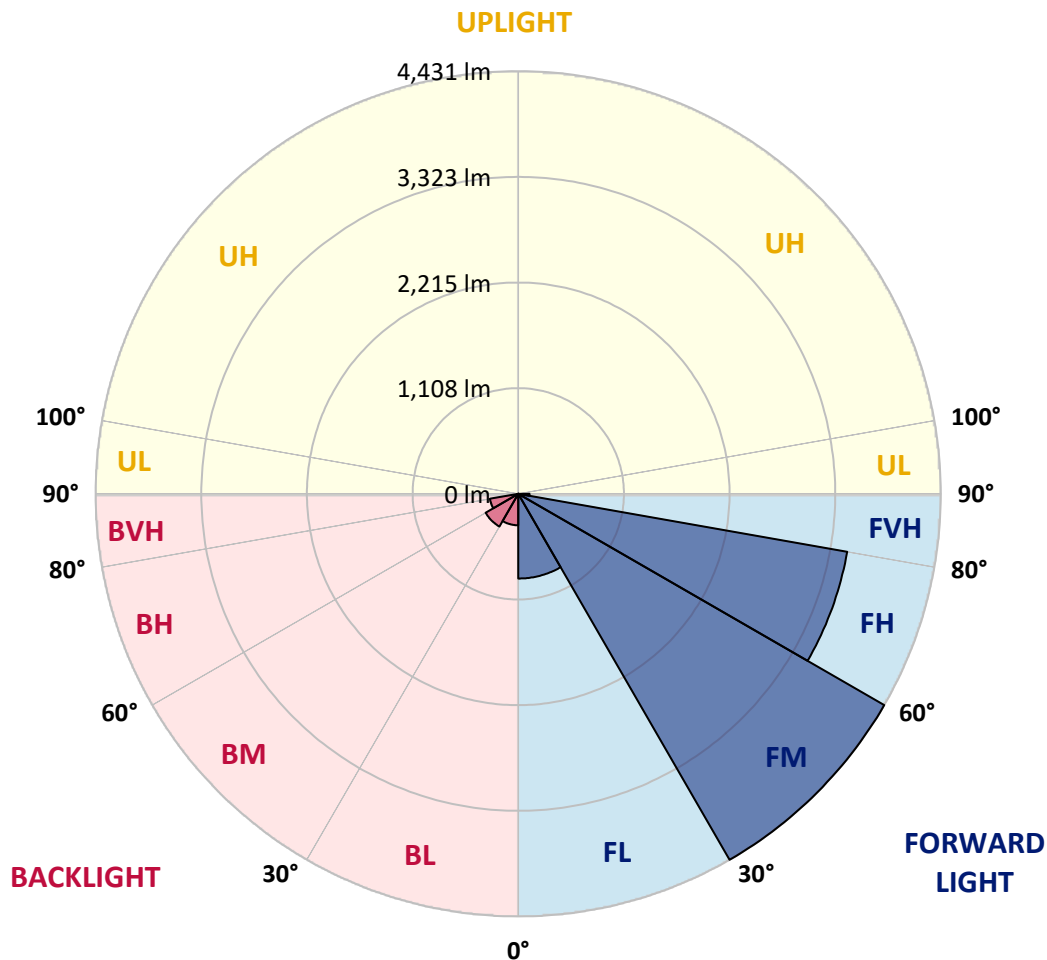
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	888.3	8.9			
FM (30°-60°)	4430.5	44.4			
FH (60°-80°)	3501.9	35.1			G2/5000
FVH (80°-90°)	117.5	1.2			G2/225
BL (0°-30°)	329.8	3.3	B1/500		
BM (30°-60°)	395.4	4.0	B1/1000		
BH (60°-80°)	301.9	3.0	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0
2.5°	2491.3	2494.0	2497.4	2502.1	2505.4	2495.3	2481.2	2465.0	2461.7	2427.4	2385.6
5°	2358.0	2362.0	2391.7	2407.8	2444.2	2477.2	2498.1	2500.7	2499.4	2467.1	2400.4
7.5°	2168.1	2179.6	2208.5	2236.8	2304.8	2367.4	2441.5	2493.3	2496.7	2488.0	2405.1
10°	2014.0	2021.3	2036.1	2092.0	2148.6	2244.2	2347.9	2445.5	2453.6	2488.6	2401.1
12.5°	1893.4	1904.2	1922.3	1965.4	2033.5	2123.7	2241.5	2372.8	2389.6	2475.8	2389.6
15°	1809.2	1814.6	1832.8	1875.2	1941.2	2024.7	2143.9	2296.7	2311.6	2459.0	2387.6
17.5°	1769.5	1775.5	1788.4	1822.0	1876.5	1954.0	2070.5	2235.5	2254.3	2448.2	2395.0
20°	1780.3	1785.6	1786.3	1803.9	1840.9	1906.2	2016.6	2178.2	2202.4	2441.5	2407.2
22.5°	1841.5	1842.2	1834.2	1826.0	1838.9	1886.0	1983.7	2141.8	2166.8	2440.1	2421.3
25°	1933.1	1935.1	1921.7	1893.4	1867.8	1892.0	1976.2	2118.3	2140.5	2436.8	2430.0
27.5°	2059.7	2059.1	2055.0	2007.8	1935.1	1919.0	1982.2	2105.5	2124.4	2427.4	2433.4
30°	2236.8	2231.4	2222.6	2169.5	2058.4	1984.3	2007.8	2097.4	2115.0	2413.9	2424.6
32.5°	2411.2	2431.4	2430.0	2379.5	2240.9	2100.8	2061.1	2108.2	2121.0	2405.1	2411.9
35°	2614.5	2613.9	2665.7	2646.9	2484.6	2249.6	2151.9	2143.9	2154.0	2411.2	2405.8
37.5°	2803.1	2820.6	2901.4	2920.9	2772.8	2459.6	2280.6	2220.7	2224.0	2452.3	2420.6
40°	3038.0	3071.7	3192.2	3257.6	3126.9	2771.4	2470.4	2361.4	2362.0	2553.3	2476.5
42.5°	3341.1	3394.2	3506.7	3615.7	3545.7	3140.4	2755.2	2584.2	2582.9	2731.0	2604.4
45°	3709.4	3746.4	3874.4	4047.4	4002.9	3655.5	3170.1	2929.7	2912.1	3022.5	2831.3
47.5°	4027.2	4077.7	4207.6	4404.9	4606.9	4284.4	3665.6	3404.3	3392.9	3486.5	3220.6
50°	4165.9	4210.3	4347.0	4623.8	5113.2	5109.9	4403.6	4097.2	4077.7	4128.2	3822.4
52.5°	4013.7	4055.5	4193.5	4538.3	5351.6	6115.9	5472.8	4966.5	4942.9	4878.2	4541.6
55°	3492.6	3526.9	3730.9	4126.8	5260.0	6786.5	6946.1	6040.5	5948.8	5697.7	5355.6
57.5°	2780.8	2763.4	2889.9	3349.8	4722.7	7011.4	8458.4	7378.4	7214.7	6406.0	6044.4
60°	1927.0	1980.9	2032.1	2335.1	3551.1	6621.5	9399.0	9060.3	8844.8	7102.9	6704.4
62.5°	1416.7	1452.4	1486.1	1626.1	2232.7	5287.0	9565.3	10788.1	10596.8	7842.9	7333.9
65°	1120.4	1123.1	1136.6	1274.6	1471.3	3438.0	8766.1	11762.4	11713.2	8555.3	7589.1
66°	1020.8	1021.4	1042.3	1190.5	1320.4	2799.7	8125.7	11836.5	11863.4	8726.3	7514.4
67.5°	892.2	889.5	919.8	1069.9	1202.5	2018.7	6979.7	11536.1	11695.7	8857.6	7245.6
70°	691.5	688.2	725.1	897.6	1107.6	1346.7	4639.2	9905.3	10162.6	8589.0	6410.7
72.5°	460.6	463.2	526.6	708.4	1057.1	1185.7	2790.9	7535.2	7898.8	7092.8	5043.2
75°	268.6	273.3	345.4	526.6	917.8	1130.5	1579.6	5373.2	5605.4	4897.8	3141.8
77.5°	140.7	142.7	193.2	347.4	703.6	1049.7	1052.4	3432.6	3541.7	2380.2	1243.6
80°	74.8	72.7	103.7	209.4	484.1	921.7	853.8	1817.3	1889.4	707.0	314.5
82.5°	28.3	31.0	55.2	137.3	286.2	661.9	735.2	803.3	778.4	155.5	131.9
85°	5.4	6.7	23.6	81.5	144.1	276.7	542.0	393.9	365.0	58.6	76.1
87.5°	0.7	1.3	6.7	19.5	20.9	93.6	160.3	109.1	94.3	21.5	31.6
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°	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0
2.5°	2365.4	2347.2	2286.6	2226.7	2165.4	2110.2	2072.5	2011.2	1995.7	1973.6	1960.7
5°	2360.7	2318.3	2201.8	2074.6	1956.0	1828.1	1730.4	1636.2	1585.7	1560.1	1550.7
7.5°	2347.2	2279.9	2098.1	1898.8	1708.9	1517.7	1351.4	1224.8	1143.3	1087.4	1049.7
10°	2320.3	2227.4	1977.5	1703.5	1416.7	1164.2	953.5	793.2	669.3	630.2	631.6
12.5°	2292.7	2168.8	1842.9	1486.7	1131.2	812.7	589.1	462.6	403.3	383.8	379.8
15°	2267.1	2112.9	1710.9	1276.6	842.4	526.6	379.8	335.3	319.2	315.8	315.1
17.5°	2253.6	2061.1	1570.2	1036.2	587.8	357.5	304.4	292.2	287.5	284.2	282.8
20°	2242.2	2015.9	1435.6	811.3	402.0	292.9	272.7	261.3	253.1	249.8	247.8
22.5°	2234.1	1969.5	1296.2	628.2	307.7	259.9	241.7	226.9	215.5	211.4	208.7
25°	2222.0	1918.4	1155.4	459.2	259.3	231.0	210.1	192.5	177.7	170.4	169.0
27.5°	2204.5	1860.4	1001.2	340.1	231.6	205.4	179.8	158.2	143.4	135.3	136.0
30°	2176.2	1799.8	847.0	270.0	209.4	179.1	151.5	130.6	116.5	110.4	109.8
32.5°	2142.5	1726.4	705.6	231.6	189.2	155.5	126.6	108.4	97.6	92.9	92.2
35°	2110.9	1652.4	561.6	208.0	168.3	134.0	106.4	90.9	82.8	78.8	79.5
37.5°	2093.4	1586.4	437.7	189.2	151.5	115.1	91.6	78.1	70.7	67.3	66.6
40°	2104.9	1532.5	348.1	172.3	132.6	99.0	78.8	67.3	59.9	55.2	55.2
42.5°	2158.7	1508.9	280.8	156.2	115.1	85.5	68.7	57.9	49.8	45.1	45.8
45°	2323.0	1533.8	235.0	141.4	99.0	74.1	59.3	47.8	40.4	37.0	36.3
47.5°	2595.6	1627.5	203.3	125.9	84.9	63.3	49.8	39.7	32.3	29.6	29.0
50°	3072.4	1820.7	179.8	110.4	72.0	53.9	41.1	31.6	25.6	22.9	22.9
52.5°	3728.3	2242.2	162.9	92.9	60.6	45.8	33.7	25.6	20.2	18.2	17.5
55°	4413.7	2686.6	154.2	78.1	50.5	37.7	26.9	20.2	15.5	13.5	12.8
57.5°	5072.8	3035.4	144.1	63.3	40.4	29.0	20.9	15.5	10.8	9.4	8.8
60°	5705.1	3317.5	122.5	50.5	31.6	20.9	15.5	10.8	7.4	6.0	6.0
62.5°	6270.7	3481.8	96.3	40.4	24.3	14.8	10.1	8.1	5.4	4.1	4.1
65°	6336.7	3268.3	72.7	31.0	17.5	9.4	6.0	6.0	4.1	2.7	2.7
66°	6204.0	3087.2	64.0	28.3	15.5	8.1	5.4	4.7	3.4	2.0	2.0
67.5°	5907.8	2778.2	55.2	24.3	12.8	6.0	4.1	4.1	2.7	1.3	1.3
70°	5104.5	2269.1	43.8	18.2	9.4	4.7	2.7	2.7	2.0	1.3	1.3
72.5°	3890.5	1694.1	35.7	13.5	6.7	3.4	2.0	2.0	2.0	1.3	1.3
75°	2346.6	912.4	27.6	10.1	6.0	2.7	1.3	2.0	2.7	2.0	1.3
77.5°	864.6	310.4	21.5	8.1	4.7	2.7	1.3	1.3	2.7	2.0	2.0
80°	212.1	80.8	15.5	6.7	4.7	2.7	1.3	1.3	2.7	2.7	2.7
82.5°	98.3	34.4	10.8	6.0	4.7	2.7	1.3	1.3	2.0	2.7	2.7
85°	56.5	16.1	8.8	6.7	4.7	2.7	1.3	1.3	2.0	2.7	2.7
87.5°	22.9	8.1	8.1	6.7	5.4	3.4	1.3	1.3	1.3	2.0	2.0
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)