

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: P319496

Luminaire Tested: **GLEON-SA2D-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11433 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

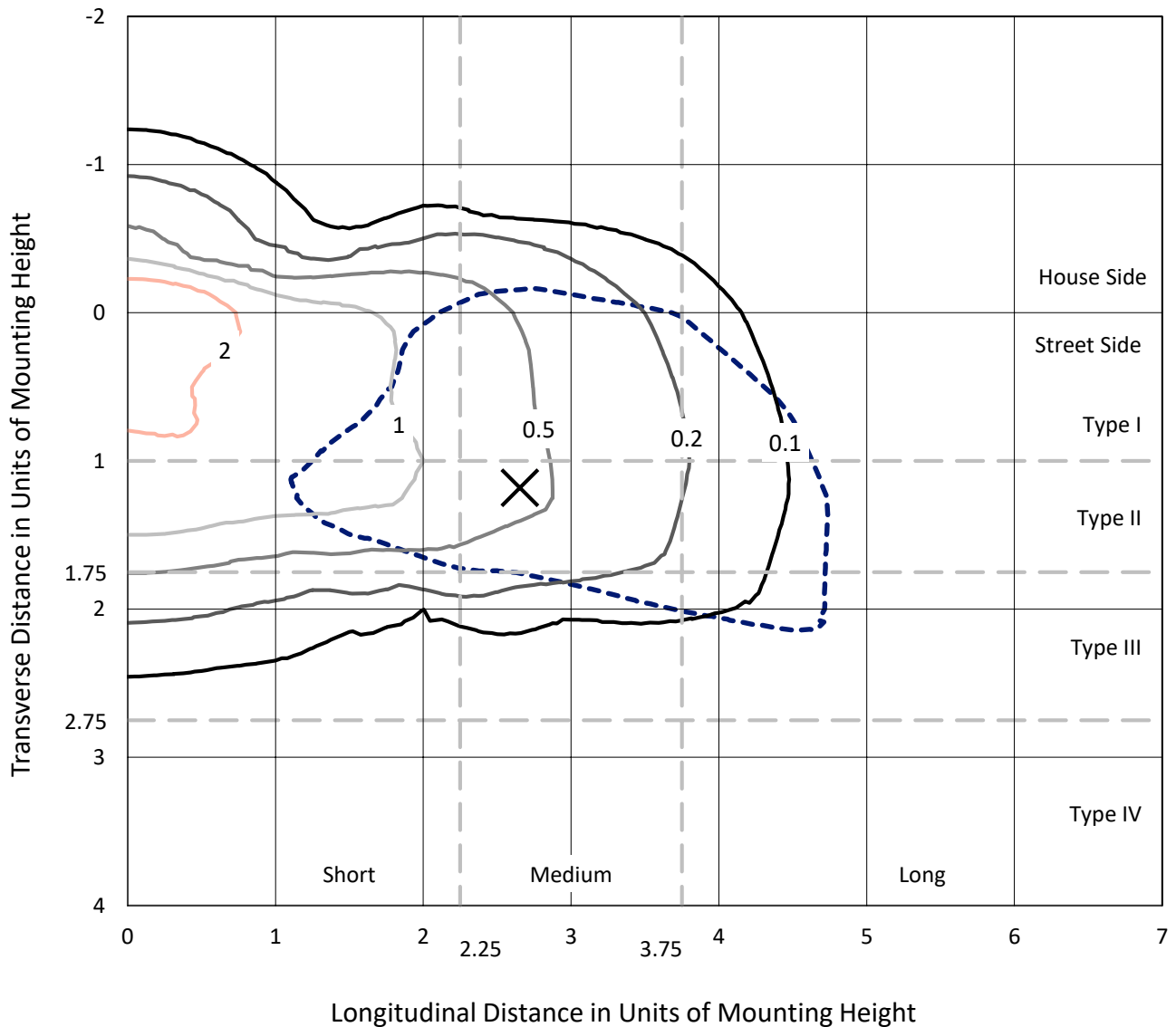
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

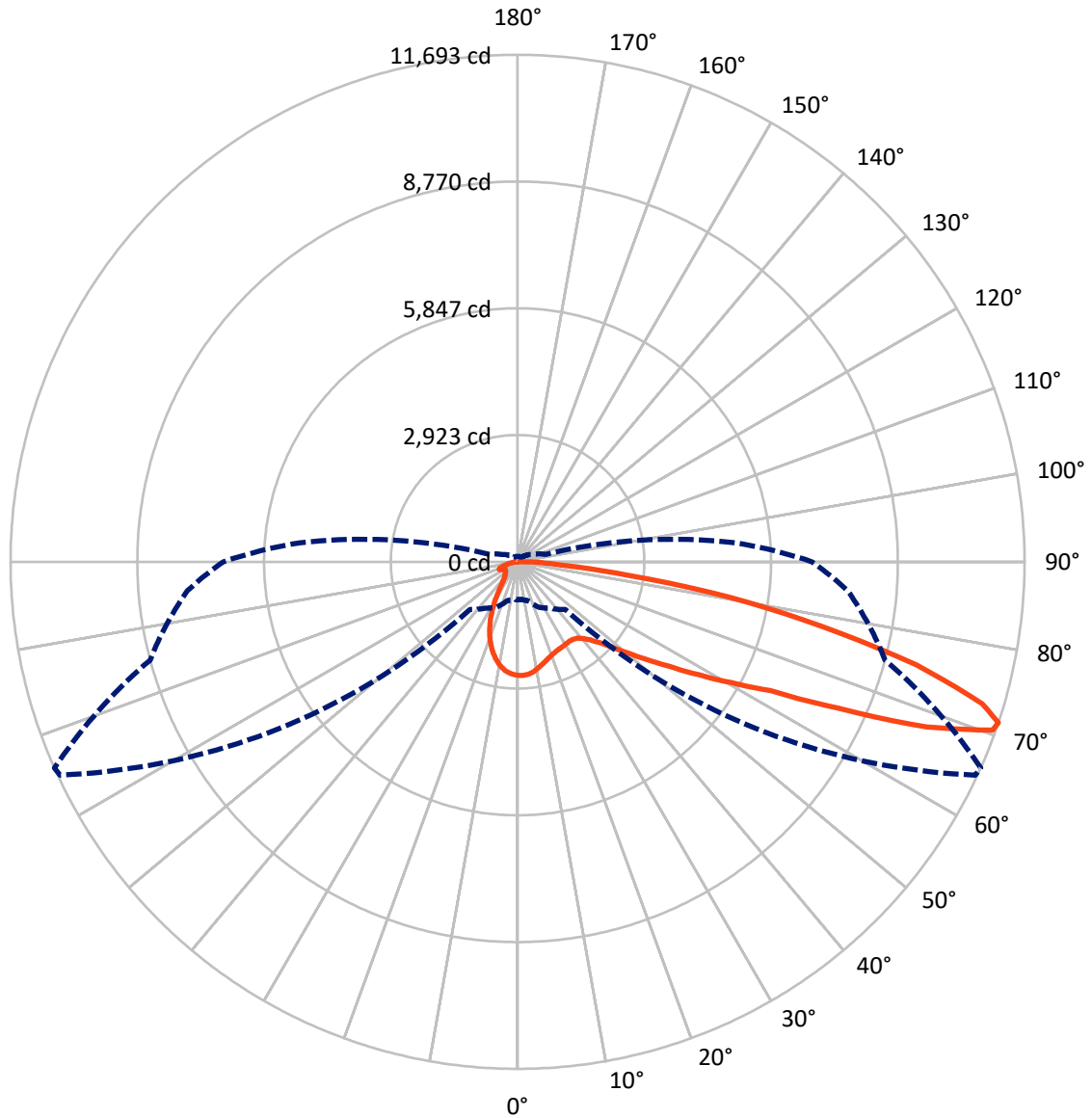
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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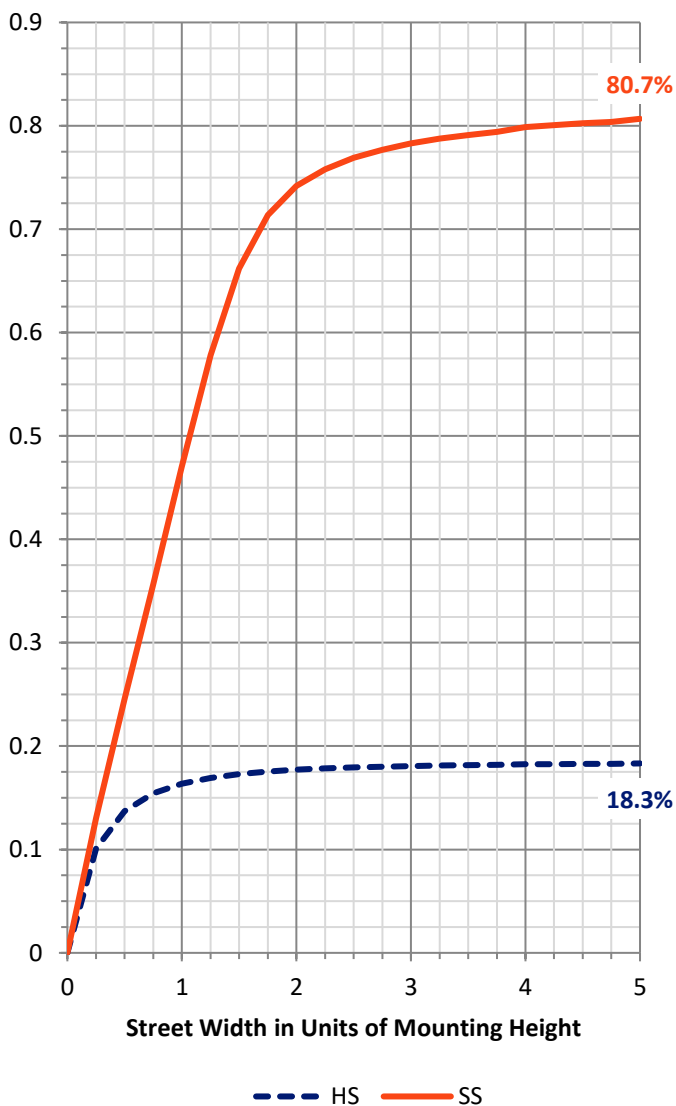
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2118.9	0.0	2118.9
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	9314.2	0.0	9314.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	11433.0	0.0	11433.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	2.0
10°-20°	552.9	4.8
20°-30°	742.7	6.5
30°-40°	977.1	8.5
40°-50°	1421.4	12.4
50°-60°	2220.3	19.4
60°-70°	2781.3	24.3
70°-80°	2121.5	18.6
80°-90°	385.2	3.4
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°	11433.0	100.0
0°-180°	11433.0	100.0

**Coefficient of Utilization**



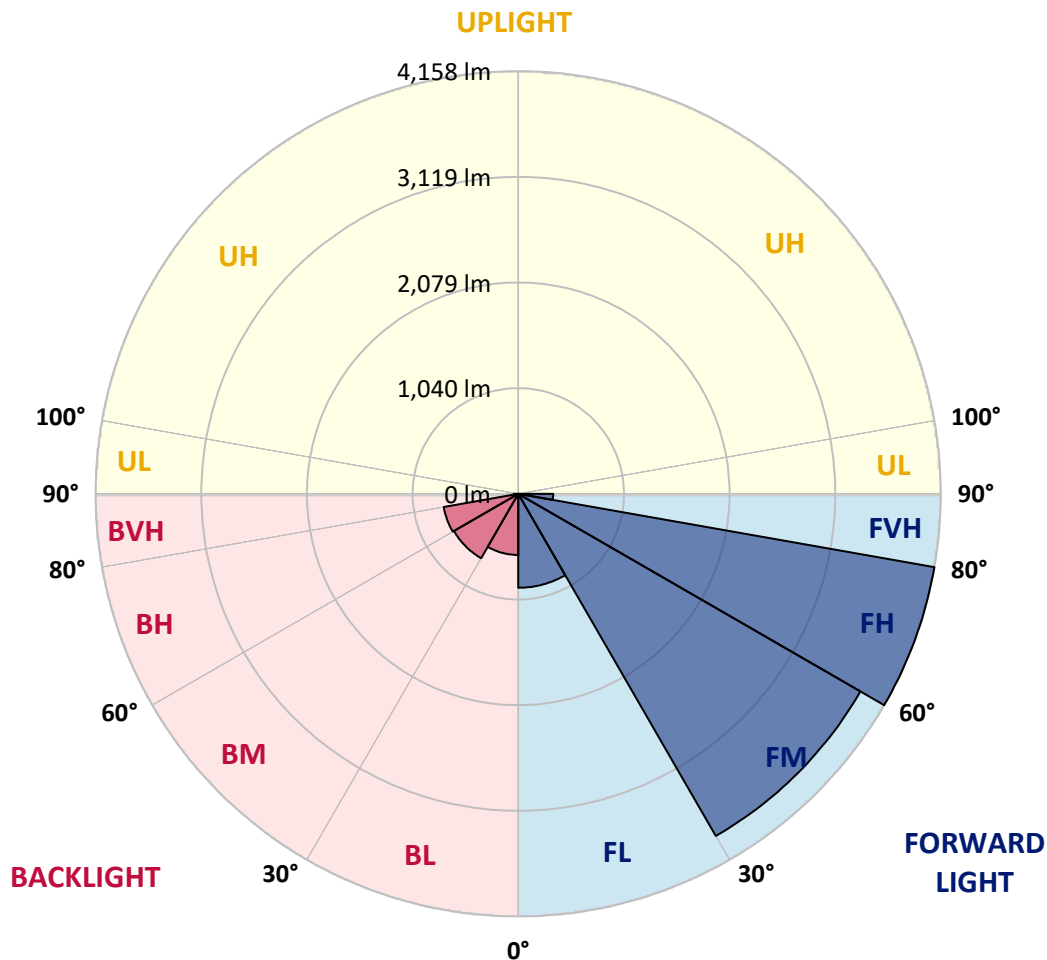
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.5	8.1			
FM (30°-60°)	3887.8	34.0			
FH (60°-80°)	4158.3	36.4			G2/5000
FVH (80°-90°)	343.5	3.0			G3/500
BL (0°-30°)	601.7	5.3	B2/1000		
BM (30°-60°)	730.9	6.4	B1/1000		
BH (60°-80°)	744.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	41.7	0.4			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1
2.5°	2570.5	2566.6	2578.4	2590.7	2595.4	2603.3	2615.1	2621.8	2621.4	2622.6	2618.7
5°	2400.0	2394.9	2418.6	2437.9	2475.0	2516.8	2567.8	2604.1	2604.9	2625.4	2630.9
7.5°	2238.6	2235.0	2262.2	2293.4	2336.4	2400.4	2482.9	2561.1	2565.8	2621.4	2640.8
10°	2109.1	2108.3	2134.7	2168.7	2218.8	2290.3	2385.0	2499.5	2506.6	2602.5	2642.4
12.5°	2008.0	2009.6	2032.5	2071.2	2124.1	2198.7	2301.3	2430.4	2441.8	2572.5	2633.3
15°	1933.4	1939.7	1958.3	1997.4	2049.5	2125.3	2230.7	2366.4	2383.8	2538.9	2628.2
17.5°	1890.8	1897.9	1910.9	1943.3	1992.2	2065.3	2165.1	2313.9	2329.7	2513.3	2628.6
20°	1878.2	1884.1	1891.6	1911.3	1952.8	2019.1	2113.4	2266.6	2283.6	2492.8	2632.5
22.5°	1903.0	1907.4	1908.2	1906.6	1931.8	1985.9	2075.9	2231.8	2250.0	2479.3	2635.3
25°	1956.3	1962.2	1957.9	1943.3	1935.0	1968.2	2056.6	2208.9	2227.1	2469.5	2629.7
27.5°	2036.4	2037.2	2033.7	2014.7	1975.7	1970.1	2050.7	2195.5	2212.9	2458.0	2618.3
30°	2145.4	2150.5	2144.2	2118.6	2054.6	2001.7	2057.8	2182.5	2198.3	2443.4	2599.7
32.5°	2272.9	2285.5	2285.1	2258.3	2166.7	2072.4	2087.0	2174.6	2186.8	2428.0	2577.2
35°	2405.1	2422.5	2454.9	2443.4	2330.1	2184.1	2143.0	2187.2	2195.5	2426.1	2561.4
37.5°	2542.5	2559.9	2626.6	2657.4	2524.7	2343.9	2231.4	2231.8	2235.8	2450.1	2560.3
40°	2686.2	2704.7	2805.0	2885.1	2777.0	2546.4	2373.9	2325.0	2320.7	2509.3	2583.6
42.5°	2887.5	2904.1	3024.5	3126.7	3056.8	2805.8	2570.9	2468.7	2459.6	2625.4	2658.2
45°	3142.1	3156.3	3284.2	3393.6	3357.6	3101.8	2818.4	2666.4	2664.9	2818.8	2809.3
47.5°	3444.9	3455.9	3570.8	3676.6	3689.6	3442.5	3129.5	2971.6	2945.9	3084.1	3043.4
50°	3760.3	3772.5	3850.7	3964.3	4061.1	3898.4	3529.7	3345.4	3311.1	3434.2	3375.0
52.5°	3969.1	3985.3	4053.2	4197.2	4478.7	4398.2	4003.0	3798.6	3746.4	3858.6	3813.2
55°	3875.9	3912.2	4016.1	4247.0	4812.6	5161.6	4586.8	4327.1	4268.3	4361.4	4334.6
57.5°	3452.4	3502.1	3643.8	4000.3	4859.6	5834.2	5469.5	4949.6	4908.2	4881.3	4893.6
60°	2678.3	2726.1	2901.7	3366.3	4532.4	6325.3	6797.8	5717.0	5657.0	5403.2	5414.2
62.5°	1895.5	1871.4	1991.8	2331.7	3682.9	6382.9	8309.2	6743.3	6545.9	5954.2	5905.7
65°	1445.5	1440.0	1494.1	1602.2	2230.7	5693.3	9209.6	8468.3	8160.0	6602.4	6487.9
67.5°	1187.8	1177.9	1231.2	1388.7	1436.4	3673.0	9229.3	10469.6	10166.8	7409.2	7161.3
70°	976.6	965.5	1015.3	1218.6	1327.5	1862.8	7767.6	11641.6	11625.4	8430.8	7669.7
71°	875.5	867.6	927.2	1153.0	1304.2	1552.5	6706.6	11644.7	11693.3	8776.6	7639.7
72.5°	712.9	715.7	778.8	1026.3	1286.8	1370.9	4929.1	11102.0	11204.6	9106.2	7367.0
75°	473.7	476.1	558.9	789.5	1247.8	1341.3	2709.1	9315.8	9504.5	8908.8	6722.4
77.5°	318.2	317.4	373.8	541.6	1087.1	1341.3	1588.4	6967.5	7174.7	7088.7	5182.5
80°	219.1	217.5	257.4	373.8	823.0	1357.5	1228.0	4882.9	4945.7	3828.2	2106.3
82.5°	134.2	135.4	168.2	264.1	560.1	1221.7	1159.3	2662.5	2594.2	1073.7	526.2
85°	77.0	76.6	107.4	178.8	359.6	1031.1	1130.5	1145.9	1051.2	323.3	190.3
87.5°	27.6	29.6	57.6	99.1	206.1	718.0	959.2	596.1	537.2	146.1	86.1
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°	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1	2619.1
2.5°	2615.9	2618.3	2615.5	2599.7	2586.3	2564.6	2552.4	2535.4	2530.3	2527.9	2534.2
5°	2625.8	2626.6	2603.3	2561.8	2515.3	2460.4	2420.9	2372.4	2349.5	2339.6	2345.9
7.5°	2634.9	2631.3	2580.4	2501.1	2415.0	2319.5	2234.6	2156.8	2111.4	2092.9	2094.5
10°	2636.1	2621.1	2539.3	2416.6	2283.2	2143.0	2012.8	1892.8	1817.0	1767.6	1782.6
12.5°	2623.8	2598.6	2478.9	2307.2	2122.1	1931.1	1755.0	1575.0	1466.8	1416.7	1418.3
15°	2614.3	2568.6	2404.7	2178.6	1929.9	1676.8	1436.4	1224.9	1109.6	1058.3	1034.2
17.5°	2606.4	2536.2	2318.7	2033.7	1702.9	1382.0	1093.0	904.3	841.2	826.2	819.9
20°	2595.4	2501.8	2222.8	1865.9	1444.3	1052.0	798.2	705.0	705.4	722.8	725.1
22.5°	2580.0	2462.8	2120.5	1677.6	1166.8	766.2	625.7	598.8	626.1	659.2	665.1
25°	2557.1	2416.6	2006.8	1469.6	889.7	588.9	534.5	533.3	566.4	601.2	606.3
27.5°	2524.7	2356.2	1880.5	1246.2	655.7	500.5	478.8	487.1	511.6	536.8	538.8
30°	2481.3	2285.9	1741.2	1010.5	513.9	445.7	443.3	450.8	465.8	483.6	485.1
32.5°	2433.6	2214.5	1592.4	782.4	440.1	416.1	418.4	422.0	429.1	436.2	437.8
35°	2390.1	2141.4	1440.0	594.5	405.0	396.7	395.1	394.3	395.1	392.8	393.2
37.5°	2362.1	2081.1	1281.3	473.3	384.9	379.7	375.0	369.1	362.4	358.4	359.2
40°	2351.8	2036.1	1120.7	408.9	368.3	364.7	355.7	343.0	335.1	332.8	332.8
42.5°	2379.5	2012.8	965.5	376.6	354.5	348.6	333.6	318.9	313.0	312.6	312.2
45°	2463.9	2022.2	817.9	358.8	341.8	330.4	310.7	298.4	294.5	295.3	294.9
47.5°	2615.5	2081.8	691.6	347.0	329.2	314.2	292.1	282.2	277.5	277.5	277.9
50°	2873.3	2221.2	590.9	337.1	318.6	299.2	278.7	266.4	260.1	259.7	259.7
52.5°	3248.7	2470.7	528.2	328.8	306.7	285.8	265.3	249.9	242.4	240.8	240.0
55°	3719.2	2828.3	510.8	323.3	290.9	271.2	249.1	233.7	225.4	221.8	221.4
57.5°	4245.4	3263.3	545.1	316.6	274.7	253.8	231.3	216.7	208.0	203.7	203.3
60°	4777.9	3738.2	685.3	307.1	261.3	234.9	213.2	199.7	191.1	186.3	185.5
62.5°	5311.2	4238.7	971.4	306.3	251.8	216.7	194.6	183.2	174.9	169.7	168.6
65°	5912.8	4786.6	1296.7	327.2	248.7	200.1	175.7	166.6	159.5	154.7	154.3
67.5°	6603.6	5405.1	1265.5	370.3	259.3	185.1	157.9	150.8	145.7	141.7	141.3
70°	6927.6	5308.4	786.7	400.7	274.3	170.5	140.9	135.8	131.8	129.1	127.9
71°	6791.8	5040.4	659.6	397.1	272.8	164.2	134.2	130.3	126.3	123.9	122.8
72.5°	6421.6	4596.7	550.3	369.5	255.0	152.8	125.5	121.6	118.0	115.3	114.5
75°	5762.4	4105.3	440.5	295.3	203.3	129.1	110.1	105.8	103.0	101.4	99.9
77.5°	4235.9	2929.7	340.7	233.3	149.6	105.4	93.9	90.8	88.0	85.7	84.5
80°	1622.8	1134.9	229.3	174.1	109.7	83.3	75.8	74.2	71.4	69.9	69.9
82.5°	437.0	339.1	122.4	105.4	73.4	60.8	58.0	57.2	54.9	51.7	52.1
85°	176.8	149.6	68.7	58.0	45.0	35.9	39.1	39.5	36.7	32.8	33.2
87.5°	77.8	63.6	38.3	25.7	19.7	13.8	17.8	17.8	16.2	13.4	12.2
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)