

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: P320117

Luminaire Tested: **GLEON-SA3B-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12186 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

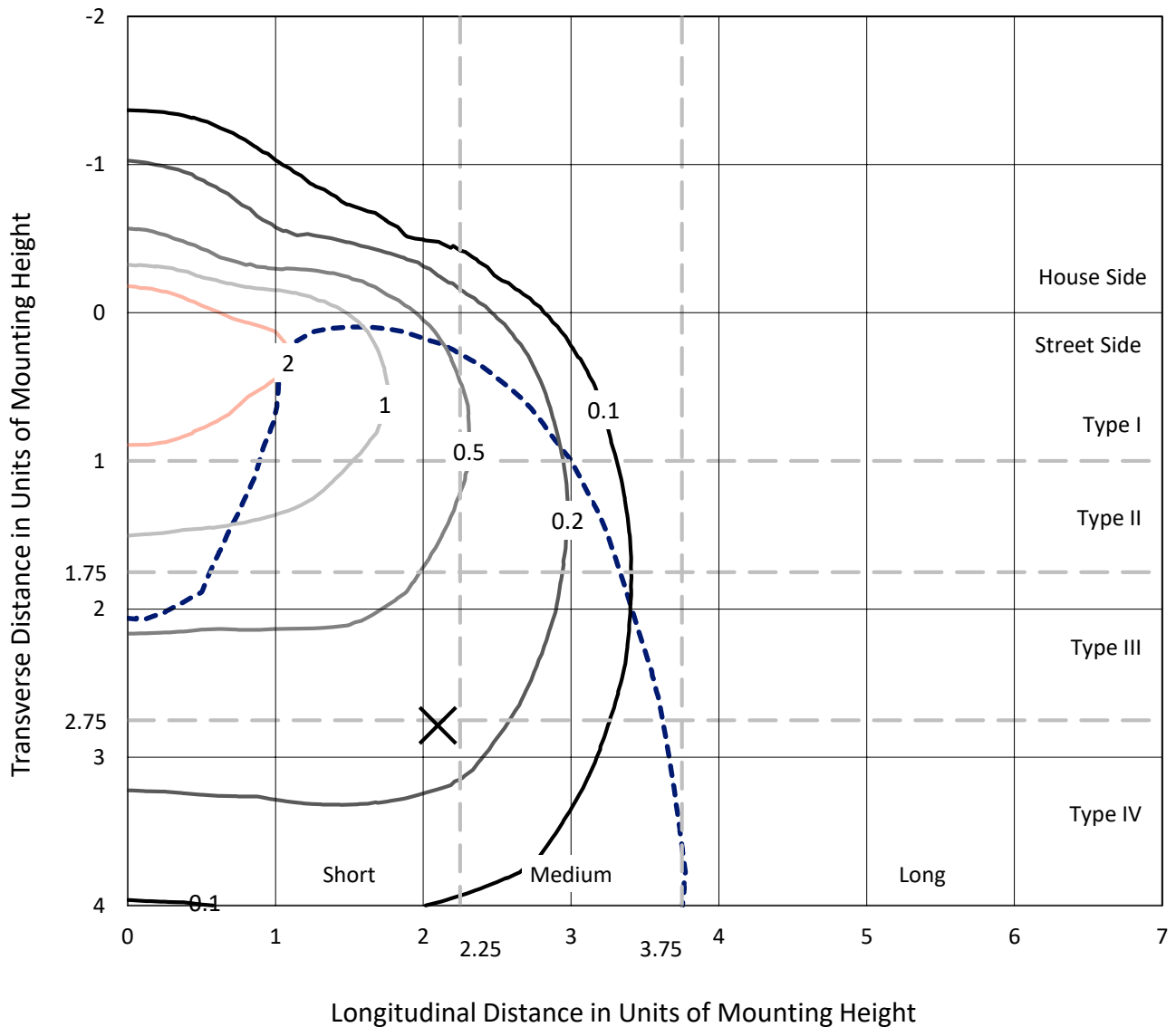
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

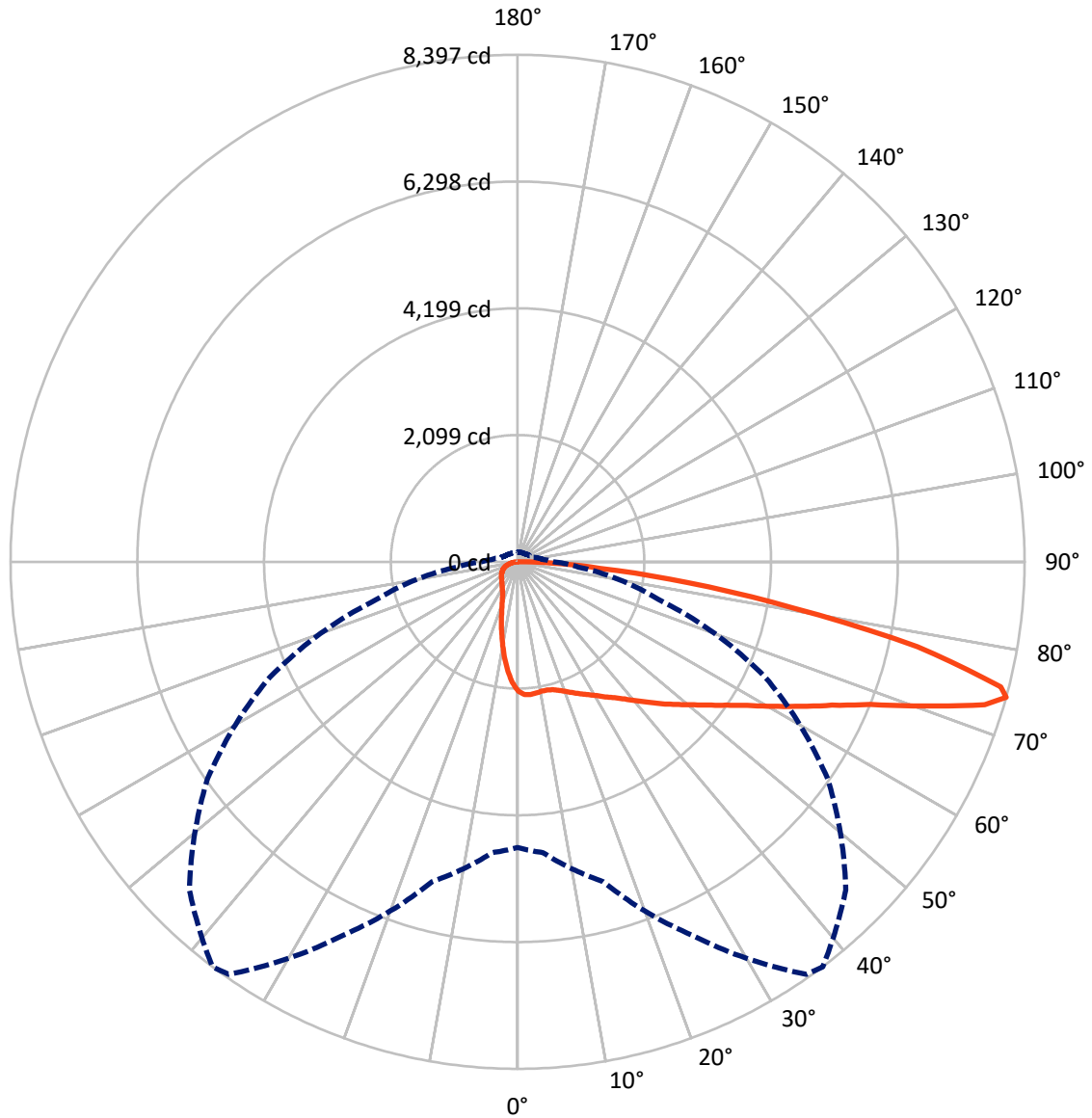
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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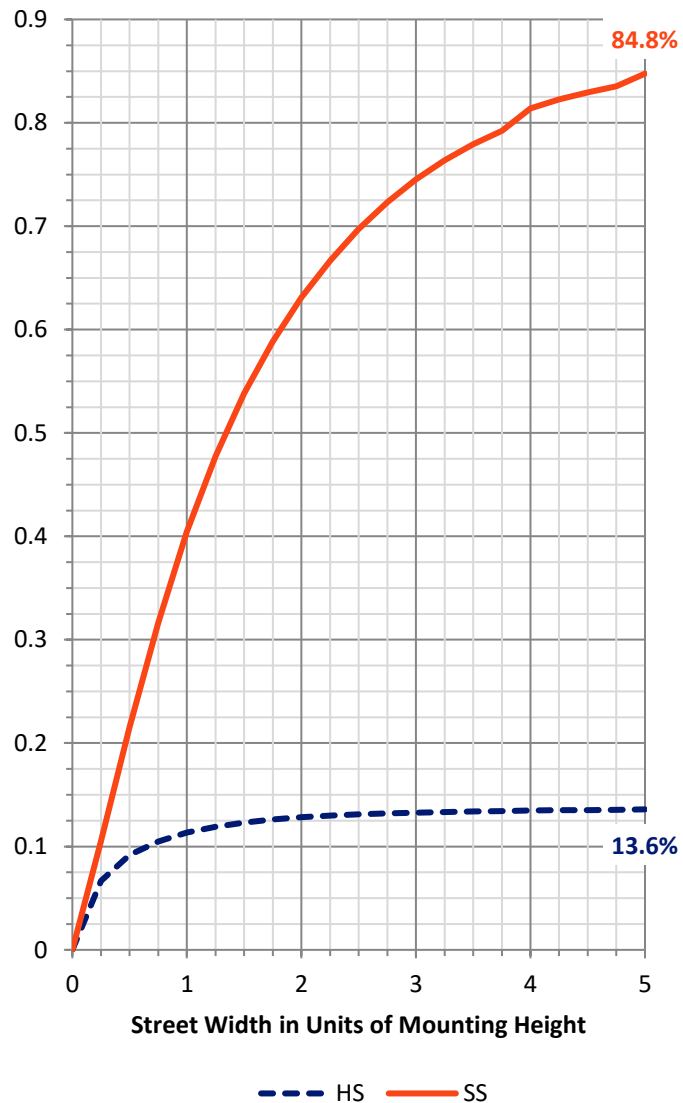
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1676.7	0.0	1676.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	10509.3	0.0	10509.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	12186.0	0.0	12186.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	1.6
10°-20°	484.7	4.0
20°-30°	746.8	6.1
30°-40°	1085.9	8.9
40°-50°	1598.3	13.1
50°-60°	2244.5	18.4
60°-70°	2840.8	23.3
70°-80°	2501.4	20.5
80°-90°	494.6	4.1
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°	12186.0	100.0
0°-180°	12186.0	100.0

**Coefficient of Utilization**



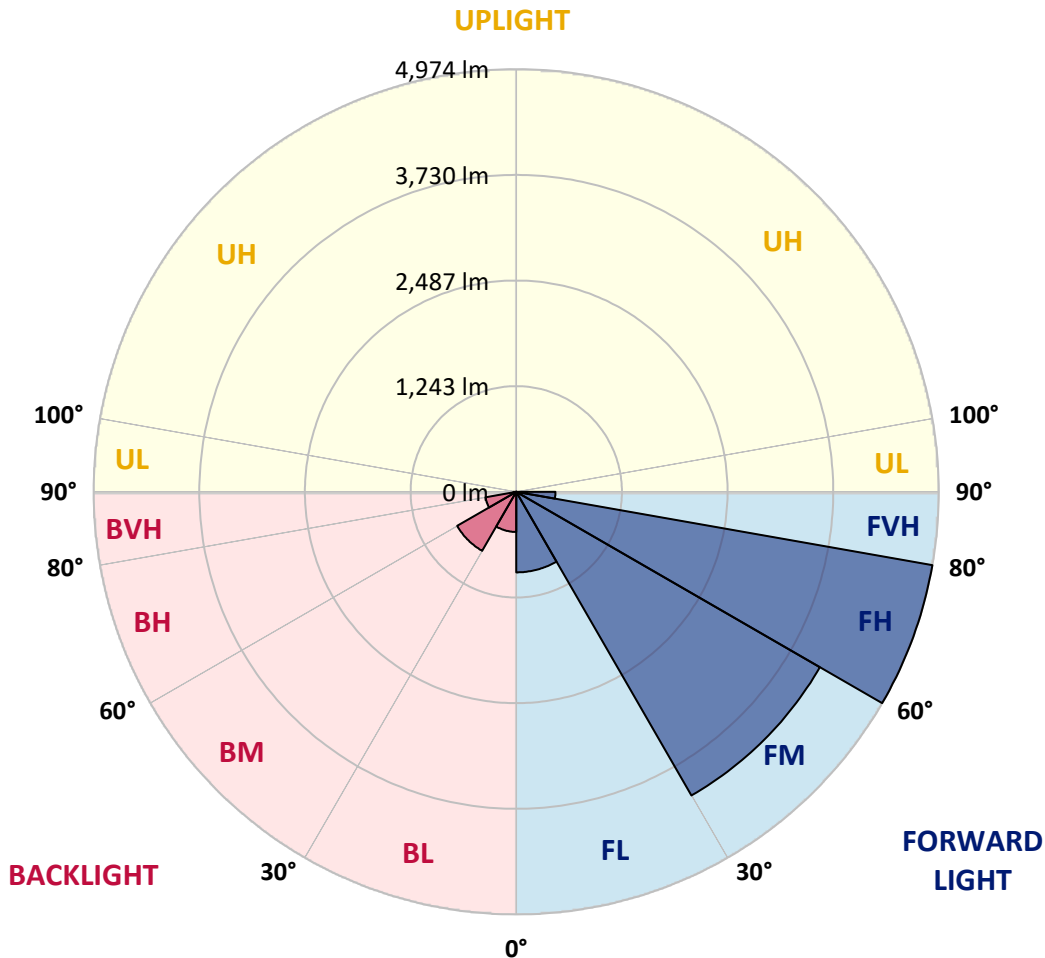
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.2	7.8			
FM (30°-60°)	4126.3	33.9			
FH (60°-80°)	4973.7	40.8			G2/5000
FVH (80°-90°)	461.1	3.8			G3/500
BL (0°-30°)	472.3	3.9	B1/500		
BM (30°-60°)	802.4	6.6	B1/1000		
BH (60°-80°)	368.6	3.0	B1/500		G1/500
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1
2.5°	2220.5	2221.0	2220.5	2217.1	2208.9	2202.1	2196.5	2188.3	2170.3	2156.6	2136.0
5°	2241.6	2239.0	2237.3	2230.8	2218.0	2210.2	2199.5	2184.0	2154.4	2127.0	2093.5
7.5°	2231.7	2228.7	2224.8	2217.1	2202.5	2196.1	2181.0	2160.9	2125.2	2089.2	2041.1
10°	2201.2	2200.4	2198.6	2196.9	2184.5	2179.3	2165.6	2144.1	2108.9	2065.1	2008.9
12.5°	2167.3	2169.4	2176.3	2185.3	2179.7	2177.2	2168.6	2154.0	2117.9	2070.7	2002.9
15°	2145.8	2151.8	2170.3	2193.9	2198.6	2197.8	2195.6	2186.2	2148.0	2095.6	2016.6
17.5°	2138.5	2148.4	2183.6	2222.7	2236.4	2239.4	2240.3	2224.0	2181.5	2126.1	2030.8
20°	2151.8	2164.3	2215.8	2269.5	2291.4	2293.1	2289.2	2260.9	2213.2	2152.3	2038.5
22.5°	2192.2	2203.4	2267.7	2328.3	2353.2	2355.7	2344.2	2301.2	2246.7	2183.2	2049.3
25°	2269.9	2283.6	2348.0	2408.5	2421.4	2421.8	2405.1	2351.9	2290.5	2226.5	2072.4
27.5°	2371.2	2384.9	2442.9	2502.1	2495.3	2491.4	2468.6	2415.4	2347.6	2286.2	2113.6
30°	2484.1	2499.1	2554.1	2596.1	2579.8	2572.1	2553.6	2484.9	2427.0	2367.8	2176.7
32.5°	2600.8	2614.6	2662.7	2691.4	2670.8	2667.4	2639.5	2576.8	2530.4	2492.2	2278.9
35°	2720.6	2730.5	2777.7	2794.0	2766.5	2765.7	2758.0	2700.4	2671.2	2689.3	2427.4
37.5°	2842.9	2845.5	2885.9	2886.7	2878.6	2882.0	2890.2	2854.1	2862.3	2918.5	2620.6
40°	2952.0	2958.8	2988.0	2997.0	3011.2	3023.2	3064.0	3040.4	3103.5	3203.1	2861.0
42.5°	3032.7	3046.0	3092.8	3116.0	3161.9	3180.8	3238.3	3260.2	3387.2	3536.6	3146.9
45°	3100.9	3121.5	3196.7	3244.3	3322.0	3355.0	3437.5	3510.9	3707.9	3898.5	3447.8
47.5°	3174.8	3200.9	3294.9	3386.0	3491.5	3528.9	3678.7	3788.6	4050.0	4262.5	3731.5
50°	3283.4	3303.5	3395.4	3538.3	3670.1	3718.2	3925.5	4083.1	4397.7	4609.3	3977.5
52.5°	3434.9	3427.2	3504.9	3705.3	3882.2	3941.4	4189.1	4396.4	4750.1	4923.1	4185.2
55°	3587.3	3574.4	3628.9	3880.0	4129.4	4191.7	4479.3	4711.1	5085.4	5205.6	4344.5
57.5°	3756.8	3732.4	3778.3	4077.0	4411.0	4485.3	4804.2	5045.4	5415.0	5433.9	4445.8
60°	3931.5	3898.5	3950.0	4321.3	4768.6	4856.1	5184.5	5371.7	5725.8	5616.8	4478.4
62.5°	4084.3	4061.2	4140.6	4593.9	5171.6	5267.8	5558.0	5718.5	6032.3	5692.8	4360.8
65°	4217.8	4221.7	4359.1	4900.4	5621.1	5723.7	5986.4	6146.1	6273.5	5647.7	4085.6
67.5°	4377.1	4399.0	4633.4	5303.9	6186.8	6299.3	6609.6	6612.2	6408.3	5383.3	3543.9
70°	4609.3	4654.4	5010.7	5863.6	6991.3	7145.8	7385.3	6886.1	6219.0	4666.4	2788.4
72.5°	4815.4	4899.5	5412.0	6504.0	7971.7	8088.9	7839.0	6728.1	5427.9	3497.1	1737.2
74°	4731.7	4836.0	5485.0	6819.6	8340.8	8397.1	7685.8	6267.1	4525.6	2421.8	1009.6
75°	4551.4	4664.7	5378.5	6816.5	8294.0	8262.7	7315.8	5740.4	3727.2	1651.8	671.8
77.5°	3673.1	3792.9	4532.1	5842.1	6800.7	6771.0	5619.8	3850.8	1632.5	541.7	341.3
80°	2135.5	2227.0	2813.3	3710.0	4585.7	4639.4	3695.9	1905.5	642.2	304.3	231.4
82.5°	948.7	1011.8	1359.0	1893.9	2767.4	2836.5	1935.5	998.4	396.6	185.0	139.1
85°	622.4	669.2	825.0	901.9	1317.8	1365.0	947.4	777.4	261.8	101.7	102.2
87.5°	447.7	492.8	613.0	535.3	604.8	572.6	515.5	719.4	105.2	57.9	34.3
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°	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1	2147.1
2.5°	2127.0	2120.1	2104.6	2075.4	2059.1	2045.4	2022.6	2009.3	2003.3	2002.9	2005.5
5°	2074.2	2058.3	2018.3	1969.4	1930.4	1894.7	1850.5	1823.9	1805.0	1793.9	1796.9
7.5°	2012.8	1987.9	1925.2	1847.1	1784.4	1715.3	1647.0	1606.3	1574.5	1550.9	1555.2
10°	1970.7	1936.4	1844.9	1732.5	1628.2	1527.7	1433.7	1377.5	1332.8	1298.5	1301.1
12.5°	1956.5	1910.2	1783.5	1633.3	1486.9	1349.6	1226.8	1140.5	1094.6	1055.5	1058.5
15°	1958.7	1896.4	1732.0	1544.0	1359.9	1186.9	1037.9	937.1	874.8	847.8	848.2
17.5°	1960.4	1880.6	1678.0	1448.3	1234.1	1034.9	873.1	770.9	712.1	687.2	687.7
20°	1954.8	1854.8	1611.0	1338.4	1102.8	895.4	738.7	652.0	607.4	588.1	588.1
22.5°	1947.5	1824.3	1535.4	1228.1	973.1	774.4	642.6	576.5	550.7	537.9	537.4
25°	1951.0	1801.6	1458.2	1114.8	853.8	677.8	578.6	534.8	517.7	509.5	509.1
27.5°	1969.4	1790.8	1386.9	1001.9	749.5	605.2	535.7	504.8	493.6	488.5	488.5
30°	2002.9	1790.8	1312.7	905.7	662.8	551.6	502.7	481.6	473.9	470.5	470.5
32.5°	2061.3	1800.7	1241.0	810.4	593.7	509.5	475.2	461.0	455.0	453.3	453.3
35°	2161.7	1834.2	1171.0	720.3	537.9	475.2	449.0	440.8	436.6	436.1	437.4
37.5°	2302.9	1902.5	1105.3	653.8	498.4	447.3	427.1	420.7	418.1	420.2	422.0
40°	2480.7	1995.2	1045.7	593.7	468.3	425.0	406.9	402.6	401.4	404.4	406.9
42.5°	2695.3	2120.5	996.7	550.3	445.1	406.1	389.8	384.6	383.3	386.8	390.2
45°	2927.5	2255.3	962.4	518.1	427.1	391.9	374.7	369.2	366.6	368.3	372.2
47.5°	3138.7	2382.8	948.7	495.4	409.9	379.9	361.4	354.6	350.3	349.4	352.4
50°	3316.8	2477.7	955.1	481.6	396.2	366.6	348.6	340.8	334.4	330.5	332.7
52.5°	3446.5	2537.3	961.1	475.6	385.5	352.0	334.4	327.1	318.5	312.1	312.1
55°	3540.5	2551.1	947.8	470.9	377.3	336.1	318.5	311.6	303.1	295.8	294.9
57.5°	3577.4	2512.4	898.4	464.0	371.7	321.1	301.8	296.6	289.3	280.7	280.3
60°	3527.6	2393.1	803.1	449.4	364.4	308.6	285.0	281.6	278.2	270.0	269.6
62.5°	3327.6	2131.2	679.9	419.8	349.8	295.3	269.6	271.3	271.7	266.1	265.3
65°	2964.9	1771.5	559.7	381.2	327.9	279.4	253.7	261.8	266.6	265.7	264.4
67.5°	2437.7	1378.8	474.3	340.4	299.2	257.6	236.5	246.0	249.8	252.8	252.0
70°	1809.3	972.3	392.3	297.5	264.4	231.8	214.2	218.9	216.3	219.8	221.1
72.5°	1008.7	583.4	319.8	254.5	228.4	201.7	189.3	188.4	182.9	182.9	182.9
74°	605.2	428.0	281.2	227.9	206.5	182.0	171.3	167.4	162.3	162.7	162.3
75°	486.8	367.9	258.0	210.3	191.0	170.4	159.7	154.5	150.7	150.7	150.2
77.5°	307.3	279.4	207.8	167.4	152.8	140.4	133.1	126.2	126.2	125.8	125.3
80°	232.2	222.4	161.8	126.6	117.2	107.7	103.0	100.0	100.0	101.3	100.9
82.5°	159.3	167.4	113.8	88.4	83.7	76.8	76.0	76.4	75.1	73.4	73.0
85°	116.3	125.8	76.8	55.8	51.1	46.8	50.2	51.9	49.8	45.9	44.2
87.5°	44.6	82.4	41.2	23.2	21.5	18.5	21.5	22.3	24.0	18.9	19.3
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)