

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: P527633

Luminaire Tested: **GALN-SA2C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6557 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 108
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



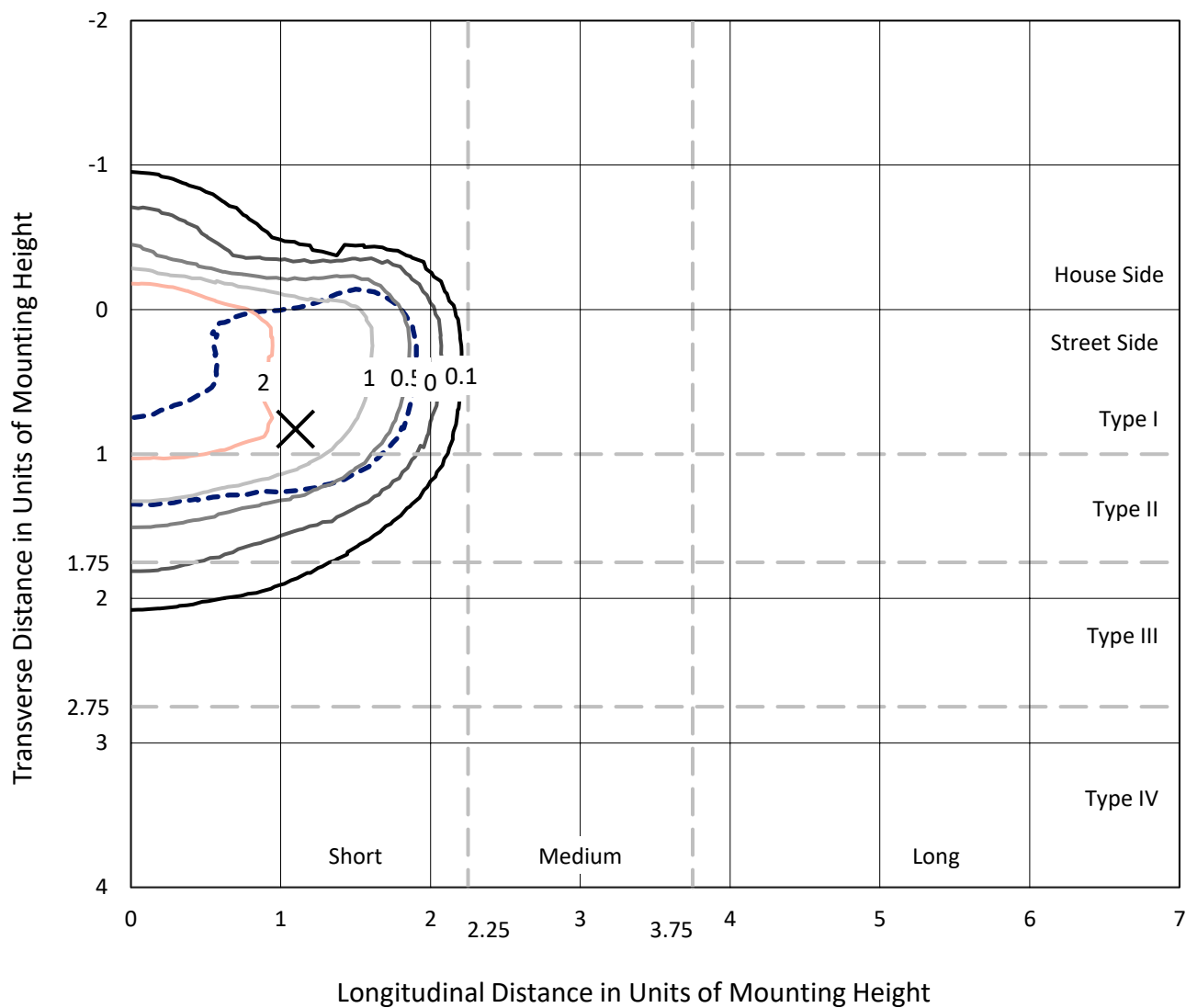
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

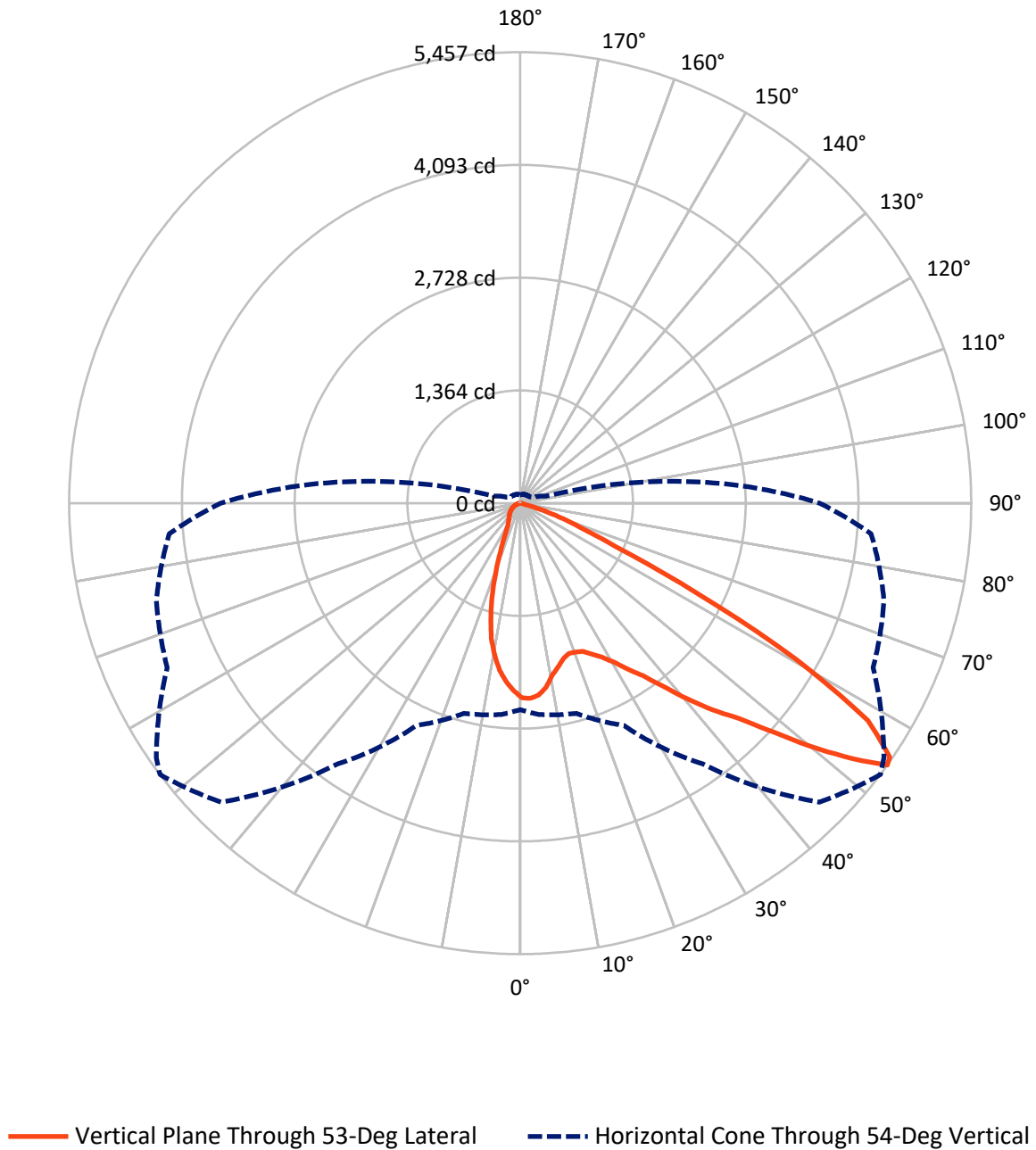


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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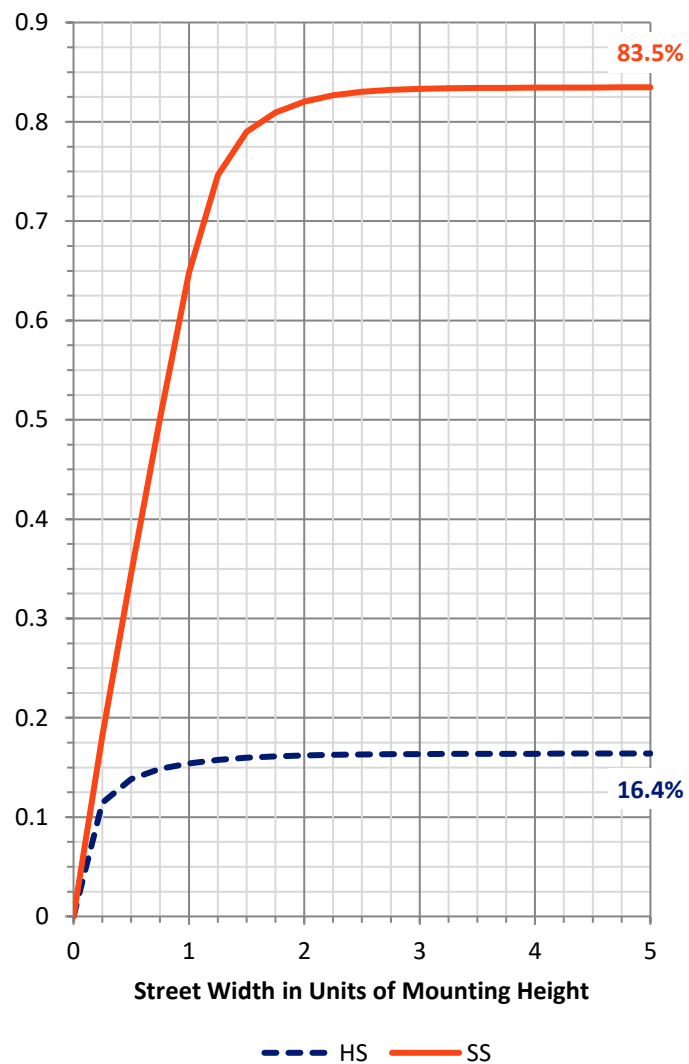
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.9	0.0	1084.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5472.1	0.0	5472.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	6557.0	0.0	6557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.1
10°-20°	463.3	7.1
20°-30°	658.4	10.0
30°-40°	1016.1	15.5
40°-50°	1593.2	24.3
50°-60°	1850.7	28.2
60°-70°	699.3	10.7
70°-80°	66.5	1.0
80°-90°	7.5	0.1
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°	6557.0	100.0
0°-180°	6557.0	100.0

Coefficient of Utilization



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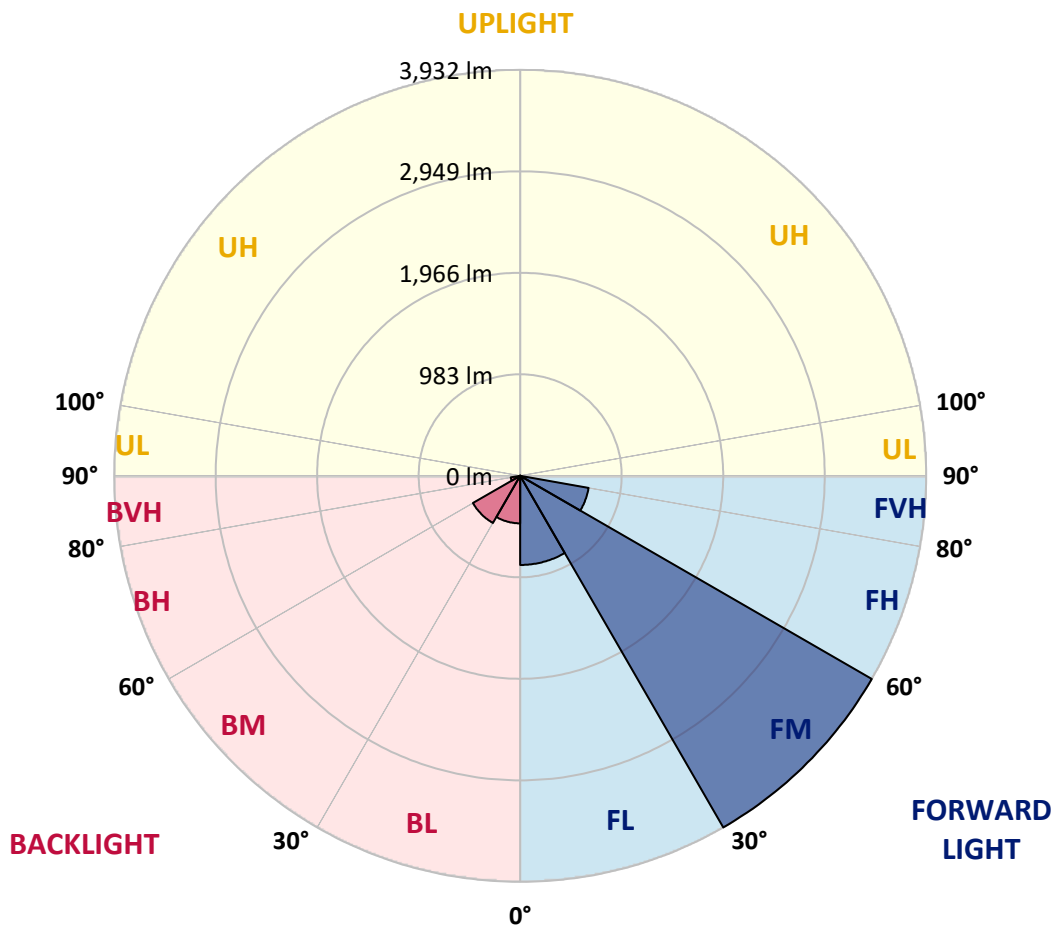
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.4	13.2			
FM	(30°-60°)	3932.0	60.0			
FH	(60°-80°)	672.8	10.3			G1/1800
FVH	(80°-90°)	3.9	0.1			G0/10
BL	(0°-30°)	460.4	7.0	B1/500		
BM	(30°-60°)	527.9	8.1	B1/1000		
BH	(60°-80°)	92.9	1.4	B0/110		G0/110
BVH	(80°-90°)	3.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2
2.5°	2342.9	2322.2	2342.9	2345.4	2360.1	2373.5	2364.9	2384.5	2373.5	2361.3	2357.6
5°	2153.6	2181.7	2182.9	2226.9	2217.1	2297.8	2333.2	2323.4	2383.3	2379.6	2371.0
7.5°	1983.8	1972.8	1987.5	2038.8	2103.5	2196.4	2247.7	2246.4	2332.0	2393.0	2386.9
10°	1826.2	1825.0	1855.5	1895.9	1950.8	2048.6	2119.4	2154.8	2288.0	2380.8	2394.3
12.5°	1720.0	1715.1	1748.0	1781.0	1867.8	1943.5	2033.9	2051.0	2203.7	2338.1	2360.1
15°	1650.3	1661.3	1663.8	1727.3	1782.3	1882.4	1953.3	1988.7	2164.6	2303.9	2388.1
17.5°	1638.1	1652.8	1654.0	1706.5	1765.2	1849.4	1911.7	1959.4	2131.6	2321.0	2389.4
20°	1662.5	1654.0	1661.3	1694.3	1751.7	1832.3	1922.7	1938.6	2120.6	2329.5	2402.8
22.5°	1732.2	1729.7	1711.4	1738.3	1778.6	1862.9	1948.4	1972.8	2152.4	2373.5	2413.8
25°	1809.1	1822.6	1805.5	1801.8	1829.9	1913.0	2026.6	2058.3	2258.7	2452.9	2448.0
27.5°	1953.3	1939.8	1939.8	1922.7	1915.4	1955.7	2110.9	2163.4	2377.2	2555.5	2487.1
30°	2091.3	2106.0	2095.0	2101.1	2052.2	2048.6	2230.6	2295.3	2587.3	2711.9	2570.2
32.5°	2310.0	2290.4	2308.7	2292.9	2228.1	2162.2	2393.0	2460.2	2841.3	2891.4	2694.8
35°	2492.0	2483.4	2561.6	2559.2	2454.1	2389.4	2565.3	2665.4	3018.5	3106.4	2841.3
37.5°	2750.9	2735.1	2824.2	2867.0	2772.9	2676.4	2812.0	2928.1	3183.4	3278.7	2991.6
40°	3017.2	3057.6	3177.3	3248.1	3148.0	3019.7	3113.8	3149.2	3293.3	3391.0	3094.2
42.5°	3354.4	3413.0	3535.2	3596.3	3587.7	3448.5	3420.4	3419.1	3372.7	3359.3	3169.9
45°	3678.1	3656.1	3844.2	3977.4	4084.9	4044.6	3716.0	3679.3	3498.5	3406.9	3189.5
47.5°	3819.8	3812.5	3940.7	4177.7	4544.2	4594.3	4146.0	4004.3	3711.1	3607.3	3295.8
50°	3636.6	3674.4	3801.5	4064.1	4626.0	5008.4	4673.7	4483.1	3959.1	3851.6	3547.4
52.5°	3038.0	3063.7	3184.6	3518.1	4347.5	5252.7	5179.4	5069.5	4414.7	4236.4	3985.9
54°	2498.1	2566.5	2632.5	2967.2	3851.6	5117.1	5456.7	5372.4	4711.5	4556.4	4262.0
55°	2175.6	2215.9	2263.5	2597.0	3508.3	4887.5	5424.9	5432.3	4910.7	4656.6	4447.7
57.5°	1589.2	1617.3	1568.5	1716.3	2408.9	3968.8	4962.0	5159.9	5179.4	4806.8	4561.3
60°	1214.2	1226.4	1171.5	1194.7	1497.6	2724.1	3838.1	4076.3	4672.5	4200.9	3863.8
62.5°	941.8	944.3	943.0	983.4	1032.2	1602.7	2400.4	2611.7	3221.2	2983.0	2623.9
65°	693.8	682.9	702.4	824.6	880.7	1007.8	1264.3	1418.2	1750.5	1478.1	1056.6
67.5°	449.5	453.2	472.7	613.2	754.9	773.2	778.1	765.9	767.1	422.7	265.1
70°	270.0	276.1	270.0	346.9	539.9	554.6	506.9	494.7	386.0	100.2	98.9
72.5°	160.0	151.5	135.6	149.0	224.8	268.7	241.9	240.6	151.5	58.6	58.6
75°	67.2	61.1	50.1	45.2	59.9	57.4	57.4	51.3	40.3	39.1	36.6
77.5°	13.4	13.4	9.8	11.0	14.7	17.1	20.8	20.8	24.4	24.4	23.2
80°	0.0	1.2	3.7	7.3	11.0	15.9	18.3	18.3	20.8	20.8	17.1
82.5°	0.0	1.2	3.7	7.3	9.8	14.7	18.3	18.3	20.8	22.0	18.3
85°	0.0	1.2	3.7	6.1	9.8	12.2	12.2	11.0	8.6	7.3	4.9
87.5°	0.0	0.0	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2
2.5°	2366.2	2364.9	2335.6	2288.0	2277.0	2236.7	2231.8	2207.4	2220.8	2175.6	2170.7
5°	2346.6	2332.0	2296.5	2266.0	2176.8	2113.3	2063.2	2002.1	1966.7	1972.8	1949.6
7.5°	2374.7	2336.8	2274.5	2168.3	2059.5	1948.4	1888.5	1763.9	1718.7	1651.5	1641.8
10°	2345.4	2317.3	2220.8	2044.9	1894.6	1734.6	1594.1	1456.1	1351.0	1305.8	1296.1
12.5°	2342.9	2294.1	2132.8	1937.4	1720.0	1490.3	1286.3	1114.1	1010.2	951.6	938.2
15°	2305.1	2246.4	2033.9	1771.3	1470.8	1184.9	962.6	796.5	717.1	682.9	692.6
17.5°	2308.7	2220.8	1934.9	1595.4	1225.2	869.7	657.2	571.7	550.9	559.5	559.5
20°	2305.1	2163.4	1815.2	1392.6	938.2	603.4	482.5	452.0	465.4	492.3	486.2
22.5°	2285.5	2136.5	1705.3	1178.8	690.2	447.1	387.2	388.5	409.2	442.2	449.5
25°	2300.2	2076.6	1566.0	962.6	503.3	356.7	335.9	344.5	366.5	390.9	395.8
27.5°	2289.2	2033.9	1420.7	747.6	367.7	306.6	305.4	315.2	324.9	343.3	343.3
30°	2301.4	1994.8	1277.7	555.8	302.9	281.0	276.1	283.4	293.2	296.8	295.6
32.5°	2346.6	1965.5	1112.8	415.3	267.5	256.5	256.5	256.5	255.3	260.2	261.4
35°	2445.6	1970.4	967.5	321.3	244.3	235.8	232.1	227.2	224.8	227.2	228.4
37.5°	2553.1	1967.9	817.2	273.6	227.2	219.9	211.3	204.0	202.8	205.2	201.6
40°	2600.7	1991.1	678.0	245.5	211.3	202.8	189.3	183.2	184.5	186.9	184.5
42.5°	2665.4	1998.5	587.6	223.5	196.7	183.2	174.7	167.4	166.1	169.8	168.6
45°	2664.2	1956.9	492.3	211.3	183.2	168.6	157.6	151.5	151.5	153.9	155.1
47.5°	2742.4	1950.8	422.7	200.3	173.5	158.8	145.4	140.5	139.3	139.3	136.8
50°	2924.4	2036.3	368.9	188.1	161.2	147.8	136.8	130.7	125.8	123.4	122.2
52.5°	3279.9	2302.6	327.4	173.5	147.8	136.8	127.0	122.2	116.0	109.9	108.7
54°	3624.4	2577.5	324.9	161.2	136.8	129.5	120.9	118.5	111.2	102.6	100.2
55°	3779.5	2737.5	333.5	151.5	129.5	124.6	117.3	114.8	107.5	97.7	96.5
57.5°	3907.8	2799.8	328.6	125.8	117.3	116.0	109.9	106.3	97.7	84.3	81.8
60°	3145.5	2117.0	235.8	111.2	107.5	105.1	100.2	97.7	86.7	72.1	70.9
62.5°	1987.5	1217.9	150.3	97.7	94.1	90.4	84.3	81.8	72.1	57.4	53.7
65°	846.5	504.5	101.4	86.7	80.6	74.5	69.6	66.0	57.4	42.8	41.5
67.5°	219.9	179.6	84.3	75.7	67.2	58.6	55.0	48.9	39.1	29.3	28.1
70°	98.9	90.4	70.9	63.5	53.7	45.2	40.3	34.2	25.7	19.5	18.3
72.5°	58.6	57.4	53.7	47.6	40.3	34.2	29.3	23.2	17.1	11.0	11.0
75°	36.6	35.4	36.6	33.0	28.1	25.7	22.0	15.9	9.8	4.9	4.9
77.5°	22.0	22.0	22.0	20.8	19.5	19.5	15.9	9.8	4.9	1.2	1.2
80°	17.1	17.1	18.3	17.1	17.1	17.1	13.4	7.3	2.4	0.0	0.0
82.5°	17.1	18.3	20.8	19.5	17.1	14.7	12.2	7.3	2.4	0.0	0.0
85°	4.9	3.7	6.1	8.6	12.2	11.0	8.6	6.1	2.4	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	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)