

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: P529742

Luminaire Tested: **GALN-SA4D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20573 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 245
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

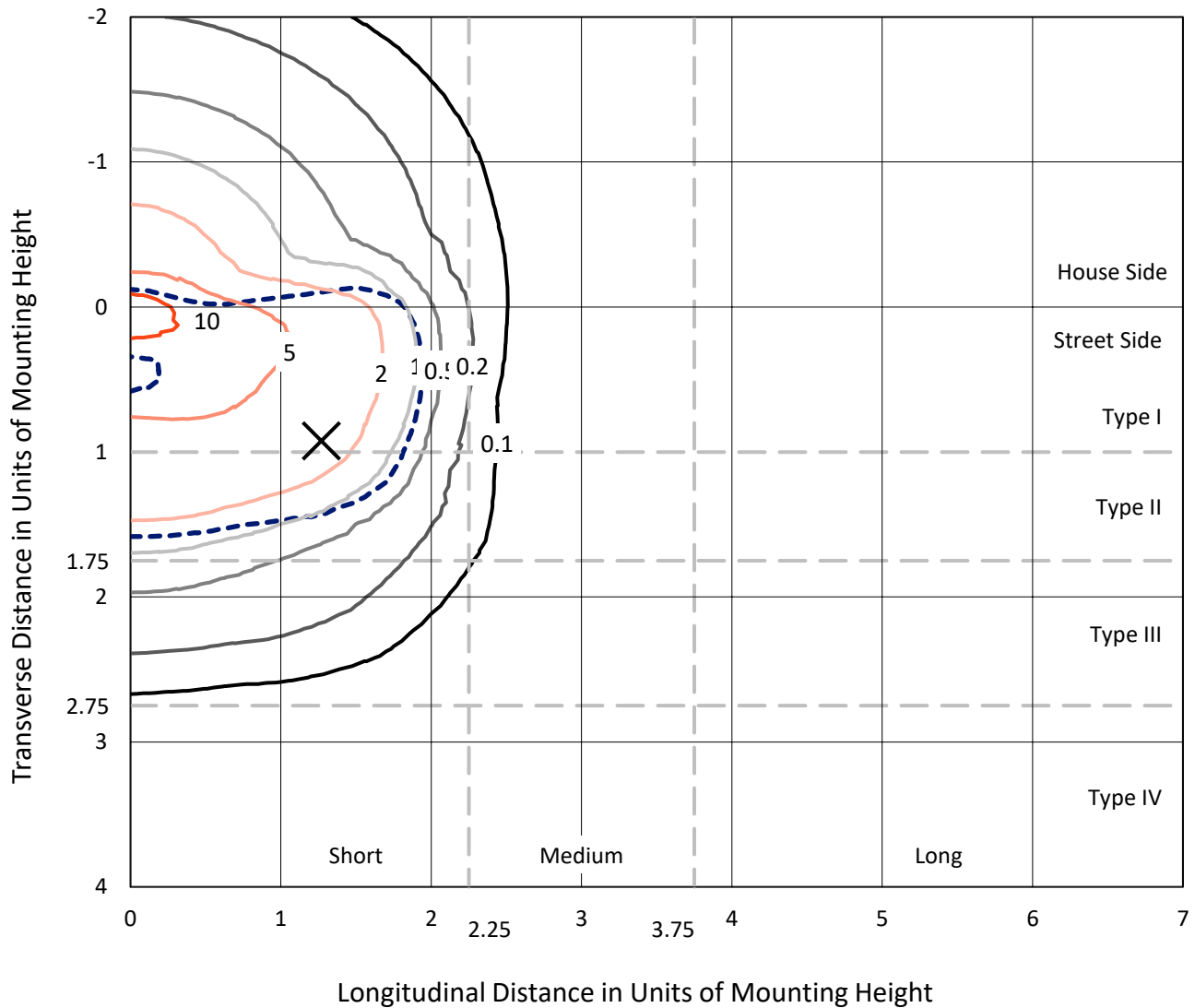


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Iso-Footcandle Lines of Horizontal Illumination

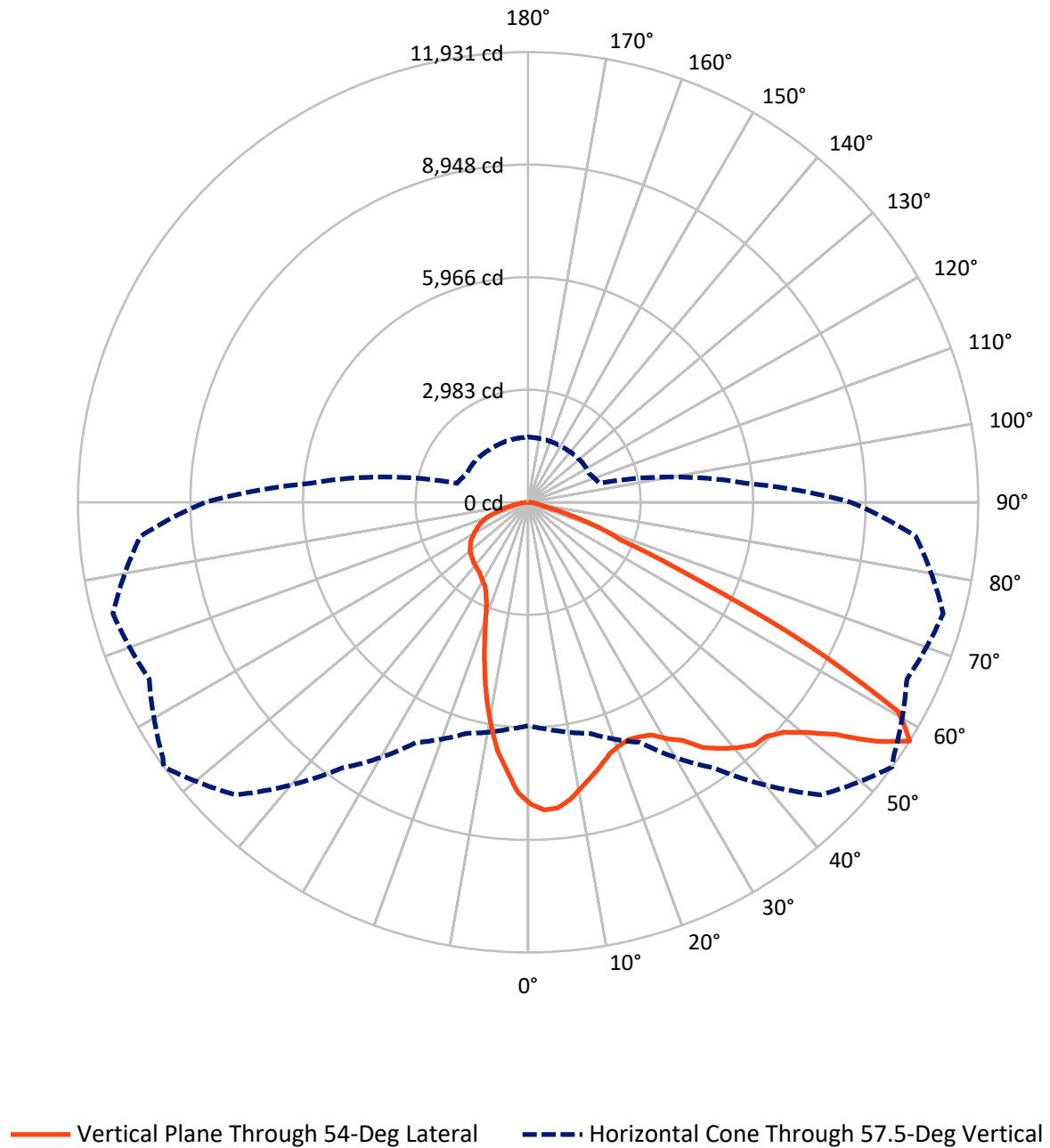
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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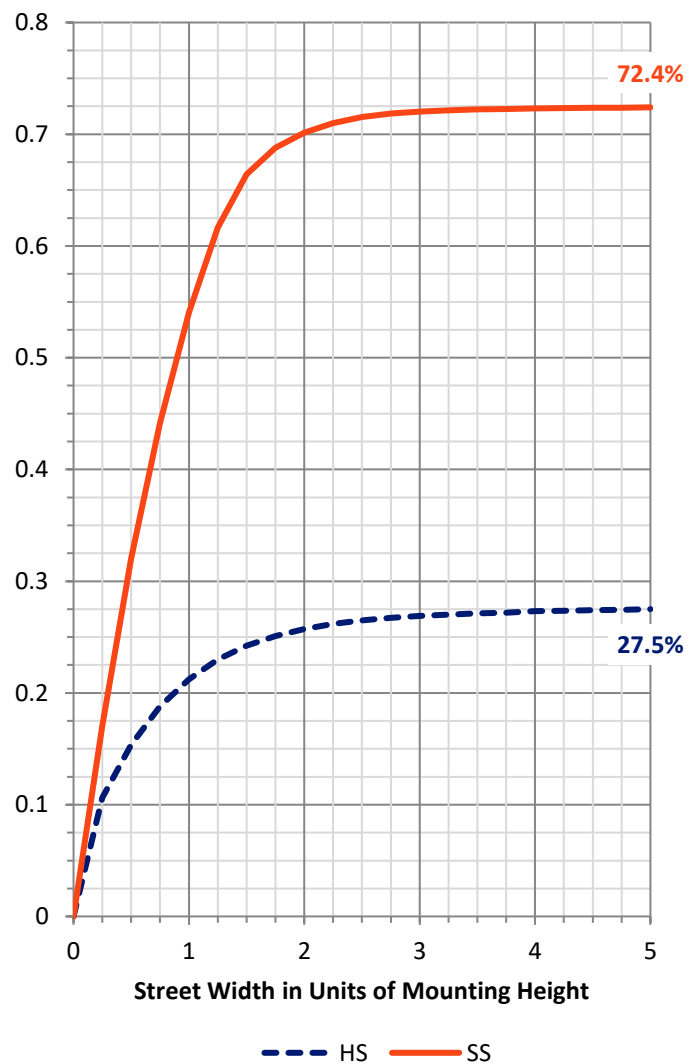
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5691.6	0.0	5691.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14881.4	0.0	14881.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	20573.0	0.0	20573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.6	3.4
10°-20°	1596.7	7.8
20°-30°	2243.4	10.9
30°-40°	3136.3	15.2
40°-50°	4246.0	20.6
50°-60°	5171.8	25.1
60°-70°	2693.7	13.1
70°-80°	690.2	3.4
80°-90°	105.3	0.5
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°	20573.0	100.0
0°-180°	20573.0	100.0

Coefficient of Utilization



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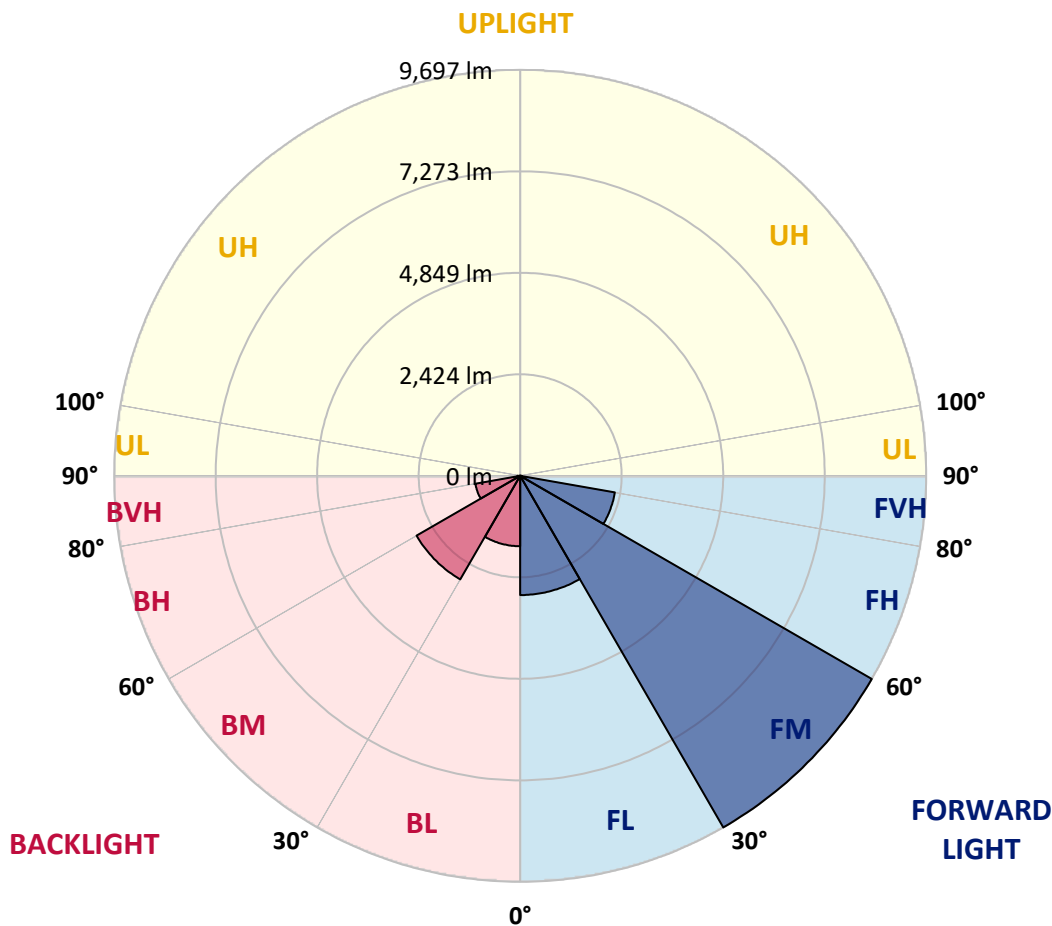
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2847.6	13.8			
FM	(30°-60°)	9697.5	47.1			
FH	(60°-80°)	2296.5	11.2			G2/5000
FVH	(80°-90°)	39.8	0.2			G1/100
BL	(0°-30°)	1682.2	8.2	B3/2500		
BM	(30°-60°)	2856.6	13.9	B3/5000		
BH	(60°-80°)	1087.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	65.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5
2.5°	8223.9	8192.2	8197.5	8239.8	8186.9	8165.7	8165.7	8062.6	8070.5	7999.1	7980.6
5°	8033.5	7959.5	8009.7	8073.2	8083.8	8104.9	8139.3	8112.8	8038.8	7962.1	7837.8
7.5°	7536.4	7602.5	7621.0	7665.9	7761.1	7848.4	7956.8	7882.8	7880.1	7803.5	7729.4
10°	7100.1	7060.4	7160.9	7227.0	7385.6	7531.1	7697.7	7689.7	7729.4	7642.1	7515.2
12.5°	6666.4	6634.7	6682.3	6833.0	7055.1	7266.7	7465.0	7390.9	7602.5	7586.6	7314.2
15°	6206.3	6230.1	6298.8	6439.0	6729.8	6983.7	7234.9	7237.6	7425.3	7488.8	7123.9
17.5°	5883.7	5857.2	5944.5	6153.4	6412.5	6716.6	7002.2	7060.4	7348.6	7385.6	7065.7
20°	5643.0	5680.0	5793.8	5899.5	6198.3	6565.9	6888.5	6909.7	7332.8	7433.2	6973.1
22.5°	5584.8	5563.7	5600.7	5772.6	6018.5	6417.8	6827.7	6907.0	7330.1	7417.4	6798.6
25°	5524.0	5592.8	5590.1	5762.0	5941.8	6298.8	6877.9	6965.2	7470.3	7499.4	6822.4
27.5°	5661.5	5653.6	5727.6	5740.9	5963.0	6330.6	6983.7	7049.8	7703.0	7679.2	6840.9
30°	5799.0	5759.4	5804.3	5960.3	6063.5	6513.0	7274.6	7269.3	8004.4	7988.6	6899.1
32.5°	5968.3	5949.8	5978.9	6116.4	6290.9	6756.3	7520.5	7676.5	8311.2	8411.7	7100.1
35°	6000.0	6076.7	6145.5	6330.6	6579.1	7150.3	7983.3	8112.8	8665.5	8980.2	7483.5
37.5°	6201.0	6230.1	6391.4	6719.3	6946.7	7676.5	8276.8	8358.8	8988.1	9345.1	7888.1
40°	6415.2	6449.5	6692.8	7036.6	7348.6	8020.3	8551.8	8578.2	9091.2	9625.4	8152.5
42.5°	6706.1	6737.8	6978.4	7409.4	7827.3	8313.8	8795.1	8824.2	9083.3	9948.0	8573.0
45°	7007.5	7084.2	7367.1	7856.3	8231.8	8657.6	8850.6	8969.6	9157.4	10236.2	8914.1
47.5°	7430.6	7502.0	7734.7	8213.3	8652.3	8959.0	9107.1	9223.5	9334.5	10487.5	9133.6
50°	7880.1	7893.4	8176.3	8610.0	8932.6	9300.1	9585.7	9625.4	9567.2	10778.3	9506.4
52.5°	8210.7	8253.0	8472.5	8895.6	9376.8	9829.0	10220.4	10262.7	10149.0	10886.8	9633.3
55°	7663.3	7639.5	7996.5	8559.7	9675.6	10617.0	11185.6	11217.3	10572.1	11222.6	10048.5
57.5°	5923.3	6037.0	6341.1	7020.7	8596.8	10966.1	11931.3	11817.6	11079.8	11391.8	10312.9
60°	4305.0	4278.5	4482.2	4937.0	6478.6	9450.9	11280.8	11397.1	10664.6	10268.0	8504.2
62.5°	3506.4	3469.4	3485.2	3501.1	4180.7	6272.4	8350.8	8348.2	8213.3	7380.4	5735.6
65°	2803.0	2890.3	2898.2	3017.2	3104.5	3747.0	4839.1	5098.3	4439.8	3641.3	2641.7
67.5°	2112.8	2081.1	2186.9	2610.0	2773.9	2705.2	2641.7	2670.8	1898.6	1369.8	1290.4
70°	1245.5	1232.3	1359.2	1819.3	2284.7	2149.8	1991.2	1993.8	1303.7	957.3	1065.7
72.5°	682.2	679.6	706.0	922.9	1298.4	1348.6	1195.2	1232.3	777.4	774.8	833.0
75°	380.8	372.9	364.9	407.2	468.0	494.5	505.1	510.4	534.2	597.6	621.4
77.5°	140.2	134.9	134.9	156.0	198.3	248.6	314.7	320.0	378.1	433.7	457.5
80°	47.6	52.9	71.4	97.8	132.2	177.2	214.2	219.5	267.1	304.1	312.0
82.5°	29.1	31.7	47.6	68.8	95.2	124.3	158.7	161.3	198.3	222.1	232.7
85°	13.2	15.9	26.4	42.3	60.8	82.0	84.6	84.6	82.0	84.6	79.3
87.5°	0.0	0.0	5.3	5.3	5.3	7.9	10.6	7.9	13.2	15.9	15.9
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°	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5	7996.5
2.5°	7925.1	7896.0	7806.1	7726.8	7703.0	7597.2	7441.2	7459.7	7346.0	7398.9	7343.3
5°	7816.7	7718.8	7488.8	7390.9	7134.4	7018.1	6938.8	6740.4	6647.9	6629.4	6550.0
7.5°	7539.0	7478.2	7190.0	6925.5	6653.2	6420.5	6121.7	5918.0	5772.6	5732.9	5616.6
10°	7319.5	7184.7	6785.4	6383.4	5994.7	5590.1	5201.4	4897.3	4749.2	4577.4	4519.2
12.5°	7102.7	6899.1	6359.6	5844.0	5341.6	4831.2	4360.5	3990.3	3667.7	3591.0	3564.6
15°	6967.8	6613.5	5978.9	5357.4	4643.5	3977.1	3506.4	3263.1	3064.8	2982.8	3041.0
17.5°	6790.7	6378.2	5613.9	4786.3	4000.9	3387.4	2993.4	2842.7	2771.3	2779.2	2755.4
20°	6568.5	6156.0	5135.3	4268.0	3427.1	2937.9	2713.1	2657.6	2668.1	2686.7	2678.7
22.5°	6409.9	5886.3	4788.9	3739.1	2961.7	2689.3	2596.7	2557.1	2591.5	2607.3	2594.1
25°	6288.2	5656.2	4368.5	3271.1	2691.9	2549.1	2506.8	2504.2	2557.1	2578.2	2565.0
27.5°	6177.2	5442.1	3950.6	2914.1	2512.1	2440.7	2427.5	2459.2	2493.6	2514.8	2533.3
30°	6111.1	5278.1	3559.3	2615.3	2422.2	2387.8	2364.0	2393.1	2411.6	2432.8	2422.2
32.5°	6174.5	5161.8	3181.1	2446.0	2348.2	2313.8	2345.5	2327.0	2358.8	2377.3	2348.2
35°	6372.9	5058.6	2911.4	2356.1	2263.6	2276.8	2282.1	2274.1	2287.4	2271.5	2305.9
37.5°	6568.5	5021.6	2662.9	2279.4	2223.9	2223.9	2218.6	2202.7	2229.2	2223.9	2239.8
40°	6817.1	5045.4	2451.3	2197.4	2186.9	2181.6	2160.4	2157.8	2147.2	2149.8	2155.1
42.5°	7033.9	5098.3	2329.7	2144.6	2152.5	2163.1	2123.4	2091.7	2104.9	2078.5	2078.5
45°	7264.0	5145.9	2221.2	2107.5	2099.6	2097.0	2065.2	2046.7	2036.1	2038.8	2062.6
47.5°	7626.3	5214.6	2139.3	2057.3	2062.6	2022.9	2015.0	1991.2	2001.8	2017.6	2020.3
50°	7882.8	5360.1	2075.8	1999.1	2017.6	1991.2	1943.6	1933.0	1933.0	1959.5	1954.2
52.5°	8062.6	5563.7	2015.0	1935.7	1943.6	1922.4	1906.6	1882.8	1866.9	1903.9	1922.4
55°	8612.6	5902.2	1999.1	1882.8	1880.1	1859.0	1829.9	1806.1	1798.2	1803.4	1840.5
57.5°	8559.7	5796.4	1948.9	1790.2	1784.9	1755.8	1726.8	1718.8	1716.2	1721.5	1732.0
60°	6949.3	4281.2	1740.0	1684.4	1676.5	1671.2	1642.1	1610.4	1594.5	1610.4	1597.2
62.5°	4598.5	2866.5	1533.7	1557.5	1562.8	1549.6	1502.0	1470.3	1475.5	1494.1	1465.0
65°	2258.3	1684.4	1390.9	1454.4	1459.7	1422.7	1377.7	1340.7	1322.2	1338.0	1324.8
67.5°	1290.4	1287.8	1274.6	1340.7	1338.0	1301.0	1229.6	1197.9	1166.2	1171.4	1163.5
70°	1094.8	1115.9	1142.4	1182.0	1179.4	1137.1	1052.4	1028.6	983.7	978.4	965.2
72.5°	862.1	899.1	957.3	986.3	962.5	909.7	854.1	814.5	774.8	751.0	758.9
75°	639.9	692.8	724.5	743.1	706.0	677.0	632.0	584.4	536.8	515.6	507.7
77.5°	465.4	481.3	510.4	523.6	499.8	470.7	444.2	396.7	351.7	322.6	314.7
80°	325.3	335.8	357.0	357.0	357.0	343.8	309.4	261.8	232.7	206.3	201.0
82.5°	227.4	238.0	259.1	248.6	245.9	230.1	208.9	171.9	140.2	121.6	116.4
85°	79.3	87.3	105.8	126.9	134.9	132.2	119.0	95.2	74.0	60.8	55.5
87.5°	18.5	18.5	21.2	18.5	18.5	21.2	18.5	18.5	18.5	13.2	10.6
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)