

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: P939924

Luminaire Tested: **GALN-SB2D-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14860 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

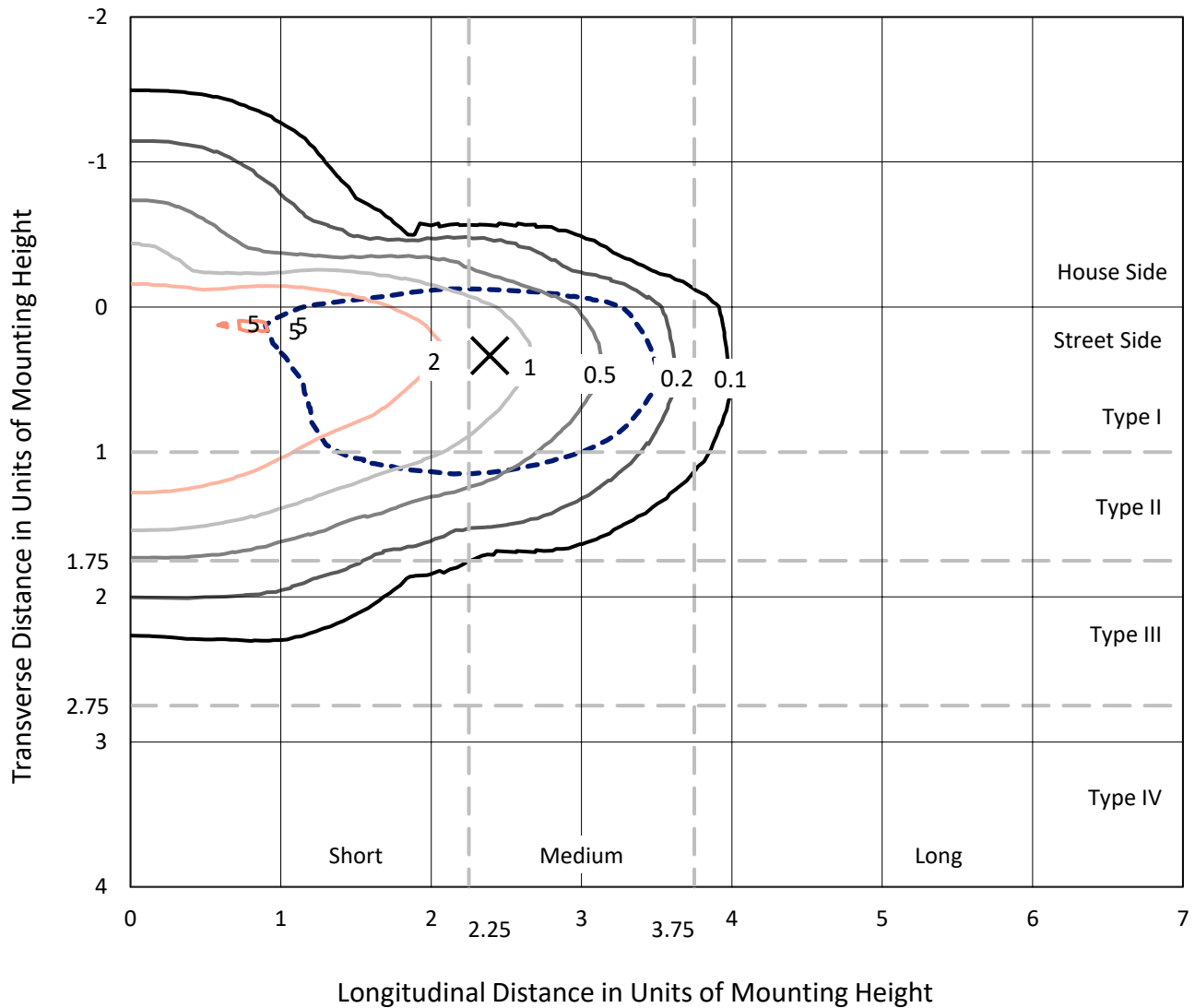


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

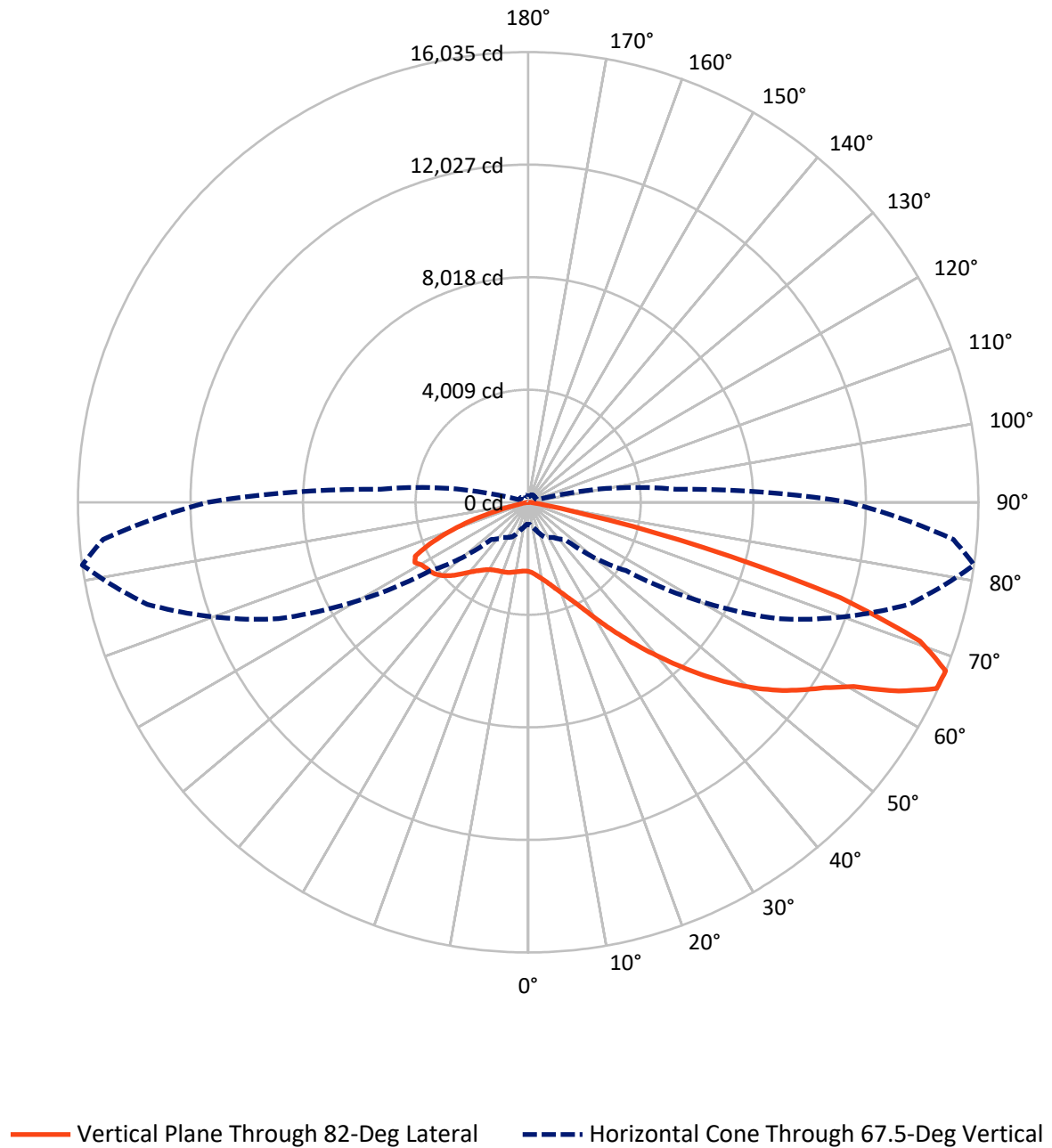


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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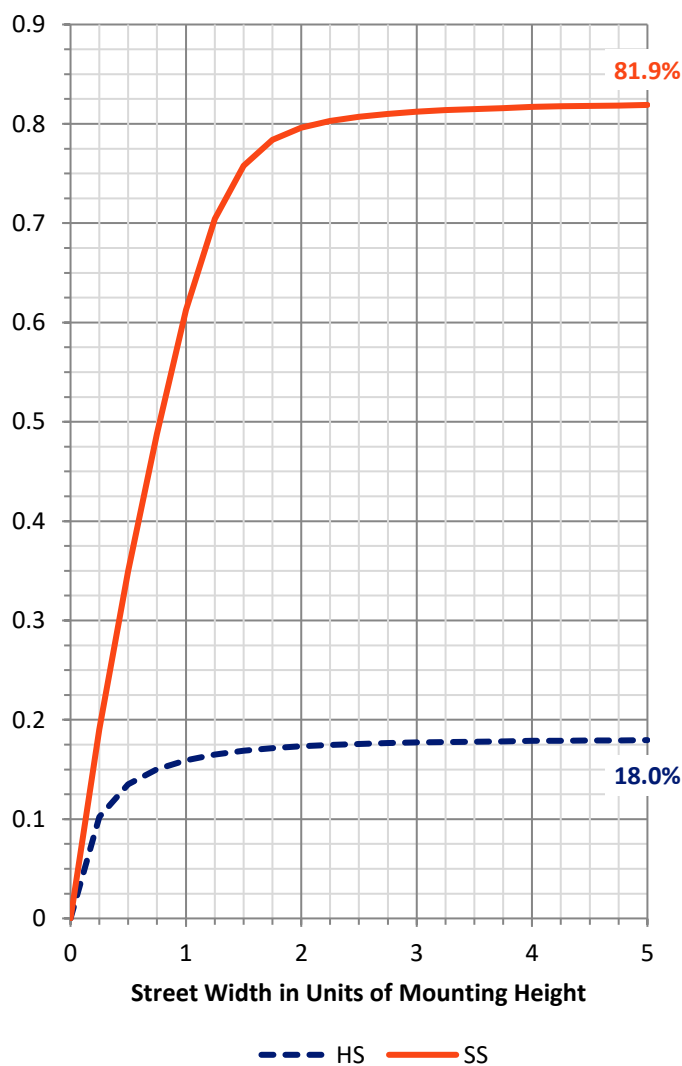
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.8	0.0	2691.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12168.2	0.0	12168.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	14860.0	0.0	14860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.5
10°-20°	569.9	3.8
20°-30°	912.9	6.1
30°-40°	1614.2	10.9
40°-50°	2828.3	19.0
50°-60°	3772.2	25.4
60°-70°	3511.7	23.6
70°-80°	1347.8	9.1
80°-90°	83.7	0.6
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°	14860.0	100.0
0°-180°	14860.0	100.0

Coefficient of Utilization



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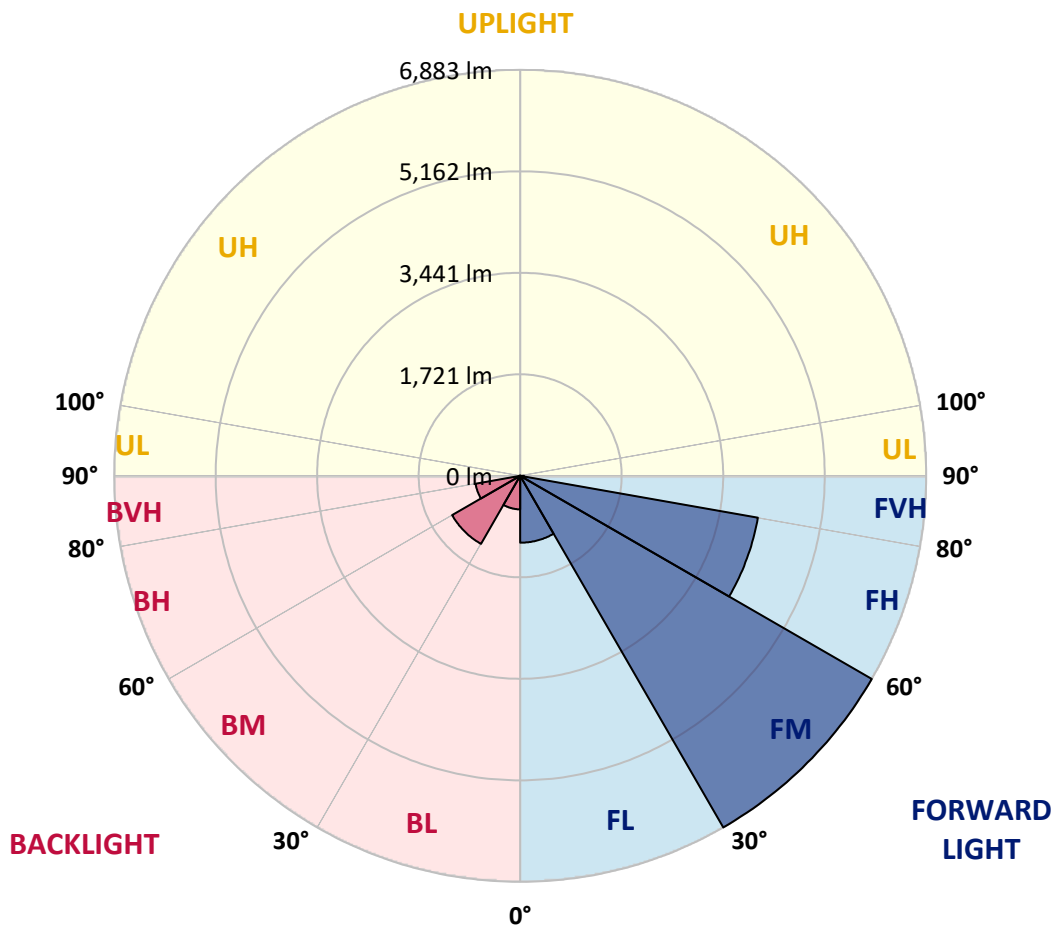
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1133.7	7.6			
FM	(30°-60°)	6882.5	46.3			
FH	(60°-80°)	4091.2	27.5			G2/5000
FVH	(80°-90°)	60.9	0.4			G1/100
BL	(0°-30°)	568.5	3.8	B2/1000		
BM	(30°-60°)	1332.1	9.0	B2/2500		
BH	(60°-80°)	768.3	5.2	B2/1000		G2/1000
BVH	(80°-90°)	22.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8
2.5°	2602.0	2616.9	2608.4	2604.1	2596.6	2585.9	2577.3	2550.6	2522.8	2504.6	2498.2
5°	2654.4	2669.4	2668.3	2672.6	2677.9	2681.1	2679.0	2649.0	2609.4	2578.4	2560.2
7.5°	2609.4	2626.6	2640.5	2661.9	2699.3	2738.9	2758.2	2751.7	2711.1	2668.3	2645.8
10°	2482.1	2500.3	2533.5	2583.8	2662.9	2748.5	2820.2	2853.4	2827.7	2780.6	2749.6
12.5°	2248.9	2267.1	2332.3	2441.5	2574.1	2722.9	2859.8	2948.6	2955.0	2907.9	2871.6
15°	1986.8	2005.0	2074.5	2211.4	2413.7	2652.2	2881.2	3049.2	3105.9	3065.2	3021.3
17.5°	1824.1	1840.2	1892.6	2002.8	2213.6	2511.0	2873.7	3156.2	3285.6	3253.5	3201.1
20°	1774.9	1788.8	1813.5	1890.5	2065.9	2364.4	2824.5	3256.7	3479.3	3461.1	3402.2
22.5°	1827.4	1840.2	1847.7	1881.9	1992.1	2268.2	2762.4	3359.4	3703.9	3706.1	3634.4
25°	1948.3	1961.1	1952.5	1973.9	2022.1	2238.2	2738.9	3480.3	3986.4	4009.9	3928.6
27.5°	2147.3	2148.3	2128.0	2126.9	2134.4	2283.1	2763.5	3609.8	4342.7	4386.5	4285.9
30°	2546.3	2530.3	2452.2	2367.6	2329.1	2417.9	2832.0	3762.8	4763.1	4841.2	4715.0
32.5°	3161.5	3138.0	2994.6	2792.4	2589.1	2635.1	2955.0	3937.2	5221.0	5362.2	5208.2
35°	3829.1	3822.7	3672.9	3372.3	3017.1	2944.3	3155.1	4166.1	5720.7	5945.3	5762.4
37.5°	4449.6	4446.4	4360.8	4006.7	3574.5	3375.5	3476.0	4465.7	6255.6	6580.8	6364.7
40°	5016.7	5026.3	4940.7	4624.0	4188.6	3928.6	3912.6	4835.9	6850.5	7273.1	7016.3
42.5°	5506.7	5517.4	5430.7	5196.4	4795.2	4540.6	4448.6	5289.5	7431.4	8016.6	7712.8
45°	5839.4	5905.8	5892.9	5705.7	5417.9	5153.6	5092.6	5858.7	8093.7	8805.1	8448.9
47.5°	5933.6	5994.6	6090.8	6116.5	5941.1	5681.1	5753.8	6544.5	8763.4	9594.7	9189.2
50°	5701.4	5758.1	5958.2	6224.6	6346.5	6266.3	6396.8	7279.5	9449.2	10382.1	9915.7
52.5°	5243.5	5301.3	5553.8	5975.3	6472.8	6725.3	7042.0	8003.8	10113.6	11127.8	10603.6
55°	4581.2	4642.2	4966.4	5443.6	6232.1	6914.6	7580.1	8727.0	10722.4	11798.7	11224.1
57.5°	3680.4	3725.3	4062.3	4729.9	5626.5	6726.3	7977.0	9516.6	11295.8	12457.7	11839.3
60°	2398.7	2438.3	2829.8	3574.5	4623.0	6097.3	8056.2	10397.1	12057.6	13314.7	12668.5
62.5°	1595.2	1621.9	1854.1	2400.8	3255.7	4889.4	7593.0	11100.0	13174.5	14806.1	14090.3
65°	1094.5	1121.2	1353.4	1734.3	2103.4	3234.3	6261.0	11006.9	14186.6	15990.5	15144.2
67.5°	781.0	803.5	1000.3	1359.8	1522.4	1878.7	4244.2	9817.2	14041.1	16035.4	15200.9
70°	559.5	572.4	735.0	1059.2	1210.0	1128.7	2360.2	7508.4	12294.0	14807.2	14043.3
72.5°	391.6	395.9	510.3	806.7	974.7	823.8	1123.4	5006.0	9298.3	11622.1	10887.1
75°	265.3	270.7	343.4	591.6	782.1	629.1	594.9	2684.3	5458.5	6433.2	5766.7
77.5°	162.6	164.8	221.5	404.4	585.2	479.3	383.0	1137.3	2111.9	2073.4	1767.4
80°	92.0	92.0	141.2	251.4	399.1	309.2	268.5	483.6	668.7	587.4	517.8
82.5°	51.4	52.4	102.7	156.2	264.3	182.9	147.6	223.6	288.9	255.7	222.5
85°	21.4	23.5	63.1	73.8	126.2	90.9	59.9	94.1	107.0	95.2	69.5
87.5°	2.1	3.2	19.3	13.9	15.0	18.2	8.6	18.2	15.0	15.0	10.7
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°	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8	2461.8
2.5°	2477.8	2461.8	2421.1	2374.1	2312.0	2282.1	2241.4	2213.6	2190.0	2192.2	2170.8
5°	2526.0	2485.3	2394.4	2281.0	2139.8	2039.2	1932.2	1858.4	1798.5	1785.6	1756.7
7.5°	2592.3	2528.1	2368.7	2164.4	1925.8	1745.0	1583.4	1479.6	1405.8	1382.3	1358.8
10°	2677.9	2584.8	2335.6	2017.8	1674.4	1444.3	1271.0	1189.7	1139.4	1122.3	1109.5
12.5°	2777.4	2650.1	2291.7	1839.1	1415.5	1194.0	1083.8	1043.1	1027.1	1021.7	1018.5
15°	2902.6	2731.4	2225.4	1627.3	1196.1	1041.0	993.9	988.6	990.7	988.6	987.5
17.5°	3051.3	2820.2	2117.3	1409.0	1048.5	962.9	945.8	950.1	955.4	954.3	952.2
20°	3213.9	2907.9	1979.3	1215.4	947.9	907.3	897.6	901.9	906.2	904.1	903.0
22.5°	3399.0	3002.1	1826.3	1064.5	880.5	855.9	845.2	846.3	846.3	842.0	839.9
25°	3620.5	3105.9	1665.8	957.5	829.2	809.9	797.1	792.8	786.4	773.5	771.4
27.5°	3884.7	3216.1	1511.7	882.7	788.5	770.3	755.3	744.6	728.6	707.2	705.1
30°	4182.2	3349.8	1381.2	835.6	756.4	738.2	721.1	705.1	681.5	654.8	652.6
32.5°	4532.0	3493.2	1286.0	804.6	727.5	708.3	687.9	668.7	643.0	616.3	617.3
35°	4949.3	3666.5	1230.4	783.2	705.1	679.4	656.9	635.5	616.3	592.7	590.6
37.5°	5401.8	3850.5	1213.2	772.5	690.1	650.5	624.8	609.8	607.7	593.8	592.7
40°	5897.2	4068.8	1226.1	766.0	674.0	622.7	594.9	591.6	597.0	572.4	573.5
42.5°	6421.4	4327.7	1247.5	758.5	651.6	594.9	568.1	568.1	563.8	529.6	529.6
45°	6988.5	4626.2	1268.9	740.4	624.8	567.0	546.7	539.2	521.0	487.9	486.8
47.5°	7559.8	4930.0	1284.9	707.2	592.7	543.5	525.3	508.2	481.4	451.5	450.4
50°	8102.2	5202.8	1267.8	658.0	556.3	521.0	501.8	478.2	449.4	429.0	425.8
52.5°	8586.9	5439.3	1195.1	600.2	517.8	497.5	480.4	455.8	432.2	410.8	408.7
55°	9008.4	5630.8	1066.7	545.6	483.6	477.2	460.0	429.0	396.9	378.7	376.6
57.5°	9412.8	5776.3	906.2	500.7	452.6	454.7	429.0	401.2	371.2	352.0	349.9
60°	9951.0	5971.0	743.6	459.0	419.4	425.8	398.0	377.7	340.2	315.6	312.4
62.5°	10811.2	6273.8	590.6	407.6	380.9	383.0	371.2	346.6	301.7	272.8	270.7
65°	11493.7	6162.5	465.4	352.0	337.0	340.2	340.2	313.5	265.3	232.2	229.0
67.5°	11416.7	5276.7	371.2	297.4	295.3	297.4	304.9	282.4	235.4	208.6	204.3
70°	10516.9	4197.1	297.4	247.1	256.8	251.4	272.8	257.8	211.8	185.1	181.9
72.5°	8581.5	3023.5	226.8	204.3	196.9	205.4	246.1	232.2	176.5	146.6	143.4
75°	5014.5	1613.4	169.0	161.6	142.3	171.2	218.3	197.9	134.8	108.1	104.8
77.5°	1632.6	562.8	124.1	118.8	105.9	138.0	186.2	166.9	110.2	85.6	82.4
80°	437.6	170.1	84.5	78.1	68.5	102.7	147.6	132.7	79.2	55.6	54.6
82.5°	175.5	71.7	49.2	43.9	37.4	70.6	116.6	107.0	58.8	35.3	35.3
85°	56.7	23.5	18.2	13.9	17.1	43.9	69.5	72.8	41.7	18.2	13.9
87.5°	7.5	3.2	3.2	4.3	3.2	7.5	21.4	20.3	11.8	2.1	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)