

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: P951632

Luminaire Tested: **GALN-SB5D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32709 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 364.9
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



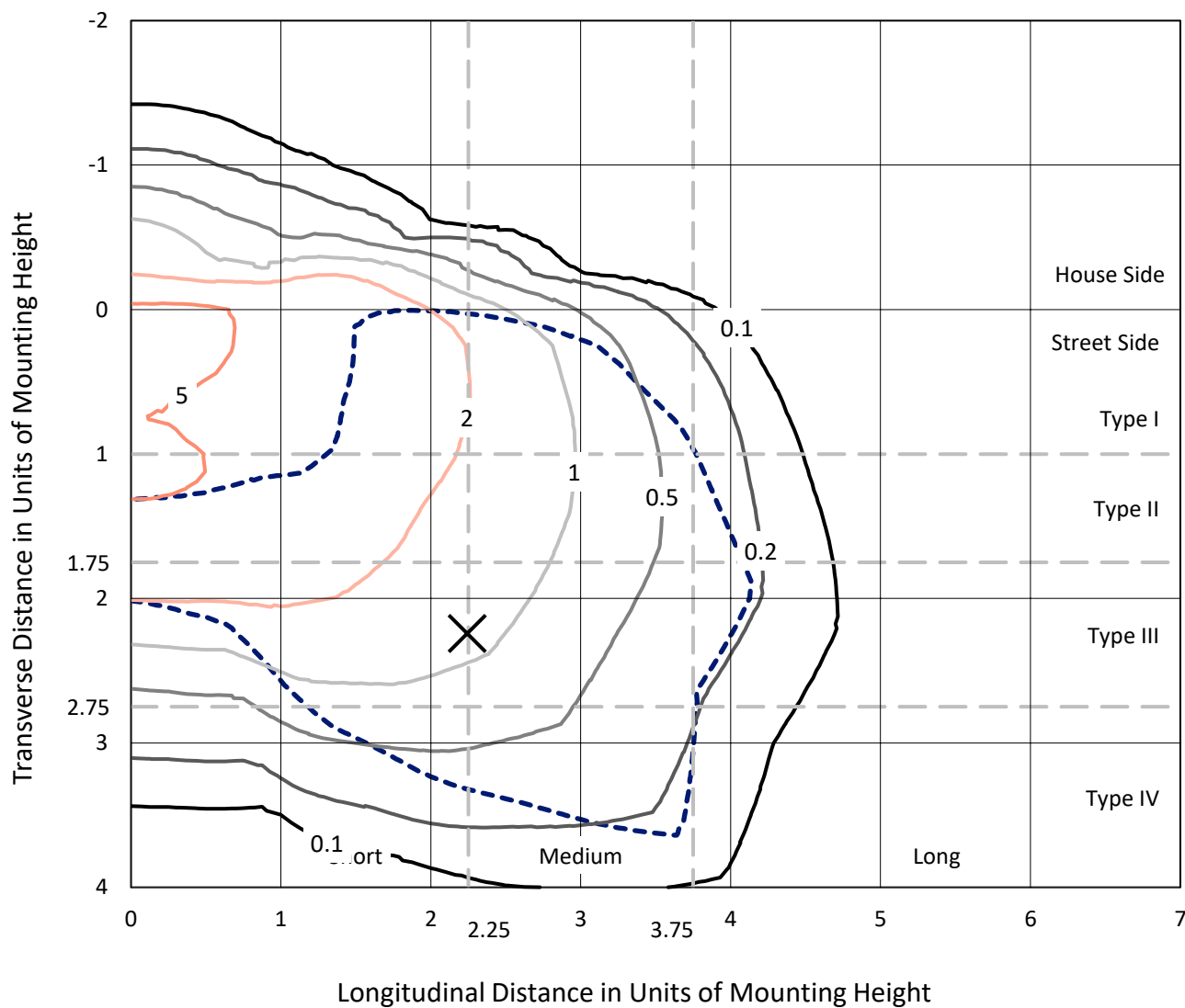
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Iso-Footcandle Lines of Horizontal Illumination

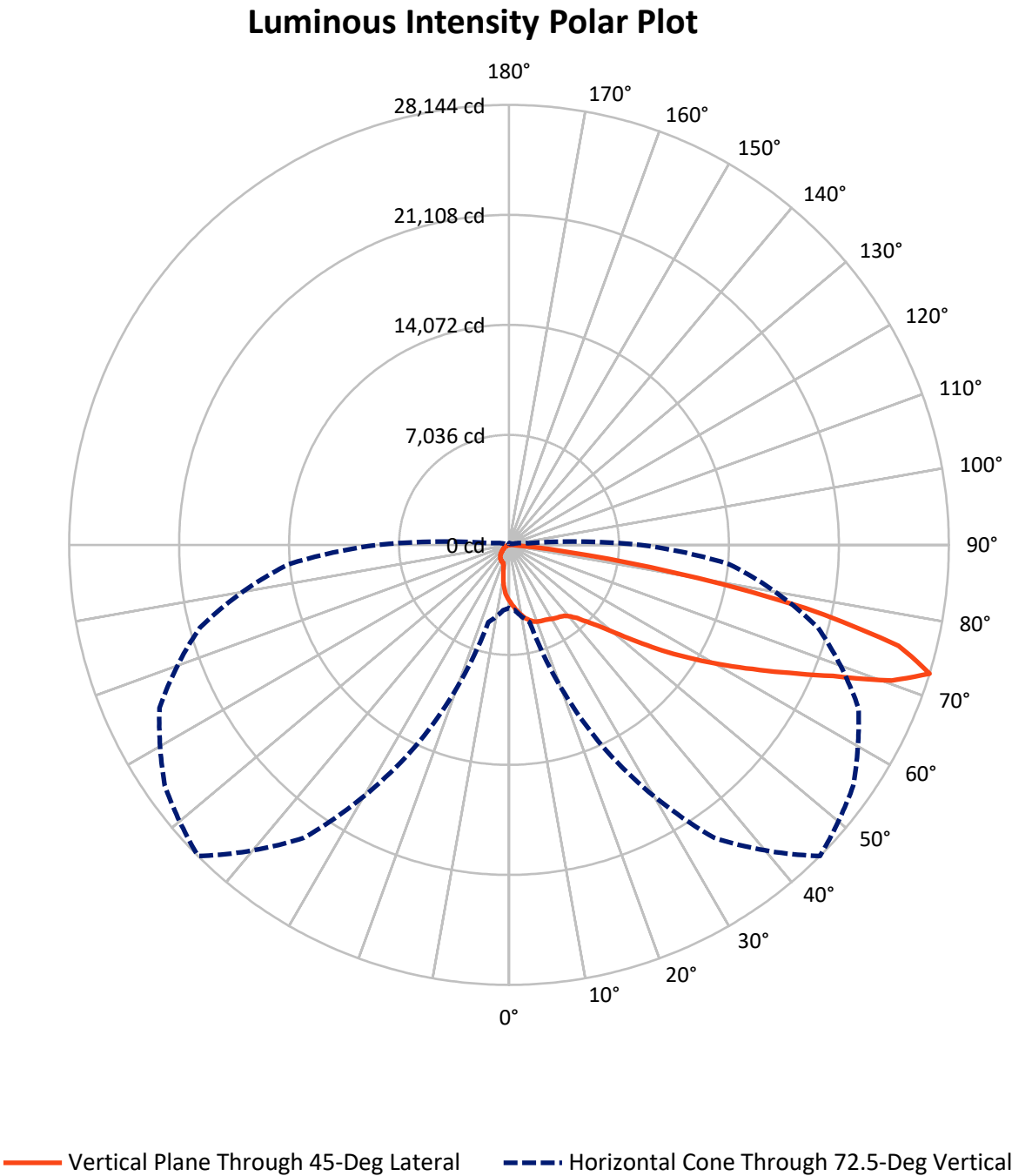
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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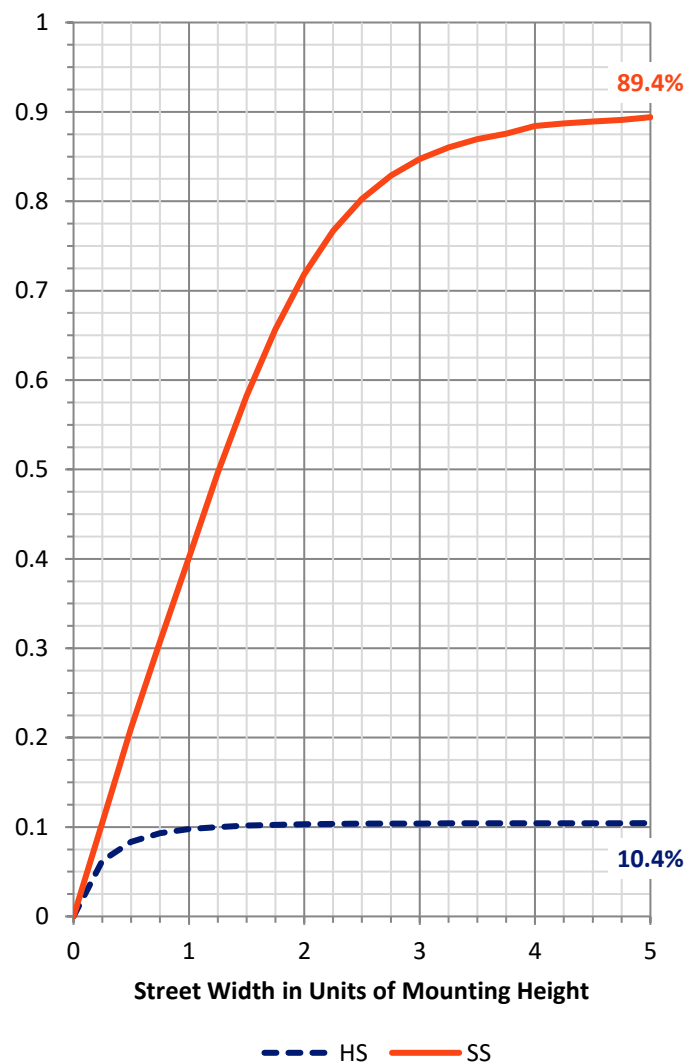
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3436.8	0.0	3436.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	29272.2	0.0	29272.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	32709.0	0.0	32709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.0
10°-20°	986.7	3.0
20°-30°	1620.4	5.0
30°-40°	2298.1	7.0
40°-50°	3798.4	11.6
50°-60°	6823.5	20.9
60°-70°	9474.8	29.0
70°-80°	6872.7	21.0
80°-90°	496.9	1.5
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°	32709.0	100.0
0°-180°	32709.0	100.0

Coefficient of Utilization



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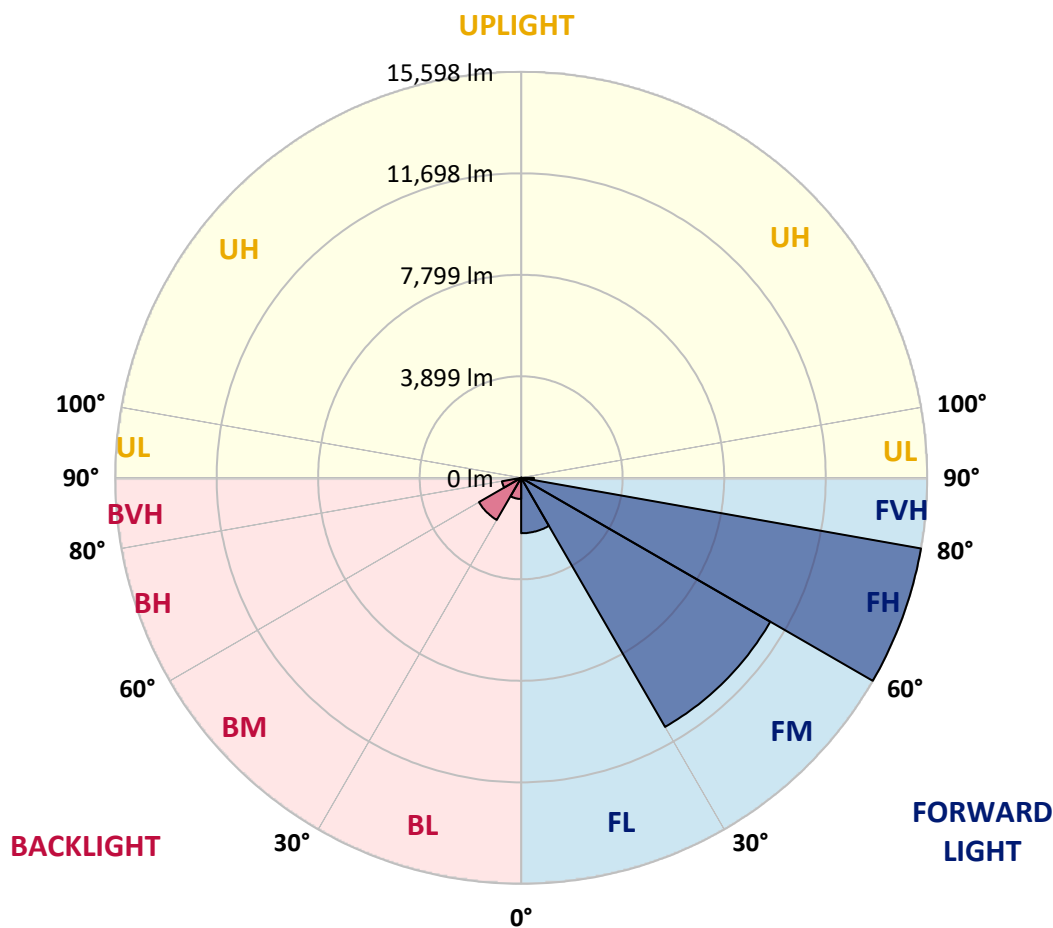
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2130.7	6.5			
FM	(30°-60°)	11050.8	33.8			
FH	(60°-80°)	15598.0	47.7			G5
FVH	(80°-90°)	492.7	1.5			G3/500
BL	(0°-30°)	814.0	2.5	B2/1000		
BM	(30°-60°)	1869.1	5.7	B2/2500		
BH	(60°-80°)	749.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3
2.5°	3913.8	3920.5	3916.0	3889.2	3844.6	3820.0	3806.6	3761.9	3732.9	3681.6	3628.0
5°	4273.2	4300.0	4284.4	4230.8	4146.0	4085.7	4067.8	3976.3	3893.7	3797.7	3686.0
7.5°	4655.0	4668.4	4639.4	4570.2	4456.3	4353.6	4338.0	4210.7	4079.0	3931.6	3779.8
10°	4985.4	5001.0	4956.4	4855.9	4726.4	4599.2	4576.9	4436.2	4279.9	4099.1	3904.8
12.5°	5262.3	5277.9	5219.8	5099.3	4956.4	4824.7	4802.3	4655.0	4483.1	4282.1	4041.0
15°	5472.1	5501.2	5423.0	5293.5	5139.5	5007.7	4996.6	4851.5	4684.0	4460.8	4204.0
17.5°	5594.9	5623.9	5550.3	5394.0	5262.3	5150.6	5137.2	5016.7	4860.4	4646.1	4362.5
20°	5615.0	5641.8	5563.7	5427.5	5318.1	5228.8	5222.1	5135.0	5021.1	4815.7	4534.4
22.5°	5554.7	5588.2	5516.8	5407.4	5331.5	5284.6	5275.7	5226.5	5161.8	4987.7	4695.2
25°	5492.2	5519.0	5465.4	5369.4	5329.2	5324.8	5331.5	5322.5	5309.1	5161.8	4882.7
27.5°	5487.8	5516.8	5456.5	5365.0	5342.6	5389.5	5396.2	5438.6	5449.8	5320.3	5063.6
30°	5525.7	5545.8	5487.8	5391.8	5380.6	5487.8	5490.0	5565.9	5583.8	5454.3	5242.2
32.5°	5608.3	5630.6	5572.6	5431.9	5416.3	5565.9	5572.6	5673.1	5702.1	5597.2	5429.7
35°	5802.6	5829.3	5762.4	5543.6	5487.8	5639.6	5659.7	5778.0	5836.0	5749.0	5623.9
37.5°	6287.0	6208.9	6117.4	5769.1	5650.7	5755.7	5789.2	5927.6	6030.3	5929.8	5856.1
40°	7490.4	7244.8	6959.0	6153.1	5936.5	6003.5	6030.3	6168.7	6309.4	6211.1	6175.4
42.5°	9296.6	9006.4	8546.4	7037.2	6367.4	6400.9	6421.0	6541.6	6740.3	6662.1	6671.0
45°	10906.3	10801.4	10332.5	8546.4	7173.4	7008.2	7032.7	7095.2	7387.7	7358.7	7416.7
47.5°	12143.2	12082.9	11721.2	10278.9	8535.3	7751.6	7820.8	7849.9	8271.8	8374.5	8530.8
50°	13094.3	13071.9	12748.2	11819.4	10314.7	8847.8	8872.4	8809.9	9441.7	9696.2	9993.2
52.5°	13991.8	14067.7	13828.8	13250.5	12214.6	10283.4	10278.9	9984.2	10837.1	11221.1	11727.9
55°	14802.2	14829.0	14853.6	14710.7	14125.7	11917.7	11875.3	11393.0	12455.7	12853.1	13402.4
57.5°	15563.5	15574.7	15793.5	16086.0	16115.0	13672.5	13594.4	13016.1	14224.0	14507.5	14844.6
60°	16074.8	16126.1	16588.3	17401.0	17756.0	15483.2	15440.7	14851.3	16023.4	16155.2	16092.7
62.5°	15338.0	15650.6	16816.0	18428.0	19305.4	17490.3	17470.2	16916.5	17916.7	17809.5	17273.7
65°	12415.5	12944.7	14994.2	19122.3	20825.8	19731.8	19760.8	19171.4	19861.3	19513.0	18233.7
67.5°	8684.9	9243.0	11667.6	19178.1	22524.8	22364.1	22531.5	21607.2	21926.5	21145.1	18461.5
70°	6005.7	6293.7	7872.2	17977.0	23848.7	25989.8	25985.4	24598.9	23980.5	21888.5	17300.5
72.5°	4038.8	4188.4	5112.7	14261.9	22875.3	28144.3	28014.8	26885.1	24672.6	20470.8	14134.7
75°	1703.5	1812.9	2366.6	8015.1	18097.5	25748.7	25398.2	23759.4	21922.0	16119.5	8818.8
77.5°	540.3	587.2	933.2	2868.9	9968.6	19354.5	18983.9	14837.9	14692.8	8086.5	3223.9
80°	256.8	299.2	524.7	1152.0	3922.7	10526.8	10475.4	6731.3	6320.5	2183.5	647.5
82.5°	111.6	131.7	290.2	616.2	1754.8	3755.3	3831.2	2290.7	1895.5	828.3	198.7
85°	35.7	46.9	134.0	283.5	741.2	933.2	922.1	544.8	763.6	451.0	69.2
87.5°	0.0	0.0	44.7	64.7	75.9	53.6	60.3	46.9	212.1	125.0	24.6
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°	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3	3583.3
2.5°	3601.2	3565.5	3503.0	3444.9	3393.6	3342.2	3311.0	3266.3	3261.8	3261.8	3273.0
5°	3625.8	3567.7	3456.1	3337.8	3201.6	3072.1	2942.6	2817.6	2777.4	2748.3	2761.7
7.5°	3697.2	3605.7	3429.3	3203.8	2944.8	2661.3	2462.6	2248.2	2165.6	2121.0	2127.7
10°	3799.9	3674.9	3407.0	3011.8	2592.1	2205.8	1922.3	1690.1	1600.8	1562.8	1562.8
12.5°	3913.8	3759.7	3366.8	2772.9	2205.8	1743.7	1466.8	1359.7	1346.3	1346.3	1346.3
15°	4050.0	3862.4	3297.6	2491.6	1801.7	1379.8	1281.5	1286.0	1299.4	1308.3	1308.3
17.5°	4190.6	3971.8	3188.2	2176.8	1444.5	1241.3	1243.6	1250.3	1261.4	1270.4	1270.4
20°	4342.4	4081.2	3043.0	1841.9	1239.1	1201.1	1207.8	1214.5	1223.5	1227.9	1230.2
22.5°	4505.4	4183.9	2871.1	1513.7	1169.9	1167.7	1169.9	1176.6	1187.7	1187.7	1192.2
25°	4679.6	4297.8	2674.7	1274.8	1134.2	1134.2	1138.6	1143.1	1152.0	1152.0	1154.3
27.5°	4858.2	4402.7	2467.0	1149.8	1102.9	1100.7	1100.7	1107.4	1111.8	1114.1	1116.3
30°	5054.6	4525.5	2259.4	1123.0	1078.4	1067.2	1060.5	1065.0	1069.4	1071.7	1076.1
32.5°	5255.6	4643.8	2074.1	1134.2	1053.8	1033.7	1011.4	1006.9	1006.9	1015.8	1022.5
35°	5478.8	4773.3	1931.2	1172.1	1040.4	984.6	948.9	928.8	931.0	944.4	951.1
37.5°	5746.7	4929.6	1826.3	1205.6	1031.5	928.8	870.7	846.2	830.5	846.2	841.7
40°	6097.3	5159.6	1750.4	1232.4	1020.3	864.0	785.9	745.7	716.7	725.6	721.1
42.5°	6613.0	5521.2	1721.3	1234.6	995.7	788.1	698.8	645.2	602.8	605.0	596.1
45°	7336.4	6092.8	1870.9	1205.6	942.2	705.5	607.3	535.8	509.0	502.3	493.4
47.5°	8327.6	6925.6	2217.0	1145.3	864.0	625.1	518.0	457.7	437.6	426.4	419.7
50°	9656.0	7995.0	2601.0	1078.4	785.9	549.2	444.3	406.3	392.9	381.8	379.5
52.5°	11196.5	9080.0	2915.8	1011.4	707.7	482.2	397.4	375.1	363.9	355.0	352.8
55°	12609.8	9828.0	2897.9	939.9	631.8	428.7	363.9	350.5	337.1	328.2	323.7
57.5°	13489.4	9932.9	2388.9	861.8	544.8	386.2	332.7	323.7	308.1	296.9	294.7
60°	13893.5	9334.5	1674.5	759.1	457.7	346.1	299.2	294.7	274.6	259.0	254.5
62.5°	13967.2	8222.7	1116.3	631.8	381.8	308.1	265.7	259.0	232.2	205.4	192.0
65°	13668.0	6633.1	772.5	493.4	326.0	267.9	227.7	214.3	185.3	158.5	149.6
67.5°	12721.4	4657.2	538.1	355.0	276.8	212.1	180.8	176.4	154.1	131.7	125.0
70°	10986.7	2654.6	359.5	265.7	218.8	145.1	142.9	147.4	125.0	107.2	98.2
72.5°	8423.6	1214.5	223.3	194.2	149.6	98.2	113.9	116.1	96.0	80.4	71.4
75°	4958.6	520.2	140.7	125.0	75.9	64.7	82.6	84.8	64.7	51.4	44.7
77.5°	1687.9	196.5	89.3	73.7	38.0	35.7	53.6	53.6	35.7	20.1	15.6
80°	384.0	73.7	44.7	29.0	17.9	15.6	17.9	15.6	8.9	2.2	0.0
82.5°	109.4	29.0	17.9	11.2	6.7	6.7	2.2	0.0	0.0	0.0	0.0
85°	31.3	13.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)