

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: P950240

Luminaire Tested: **GALN-SB4D-730-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34530 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 293.6
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



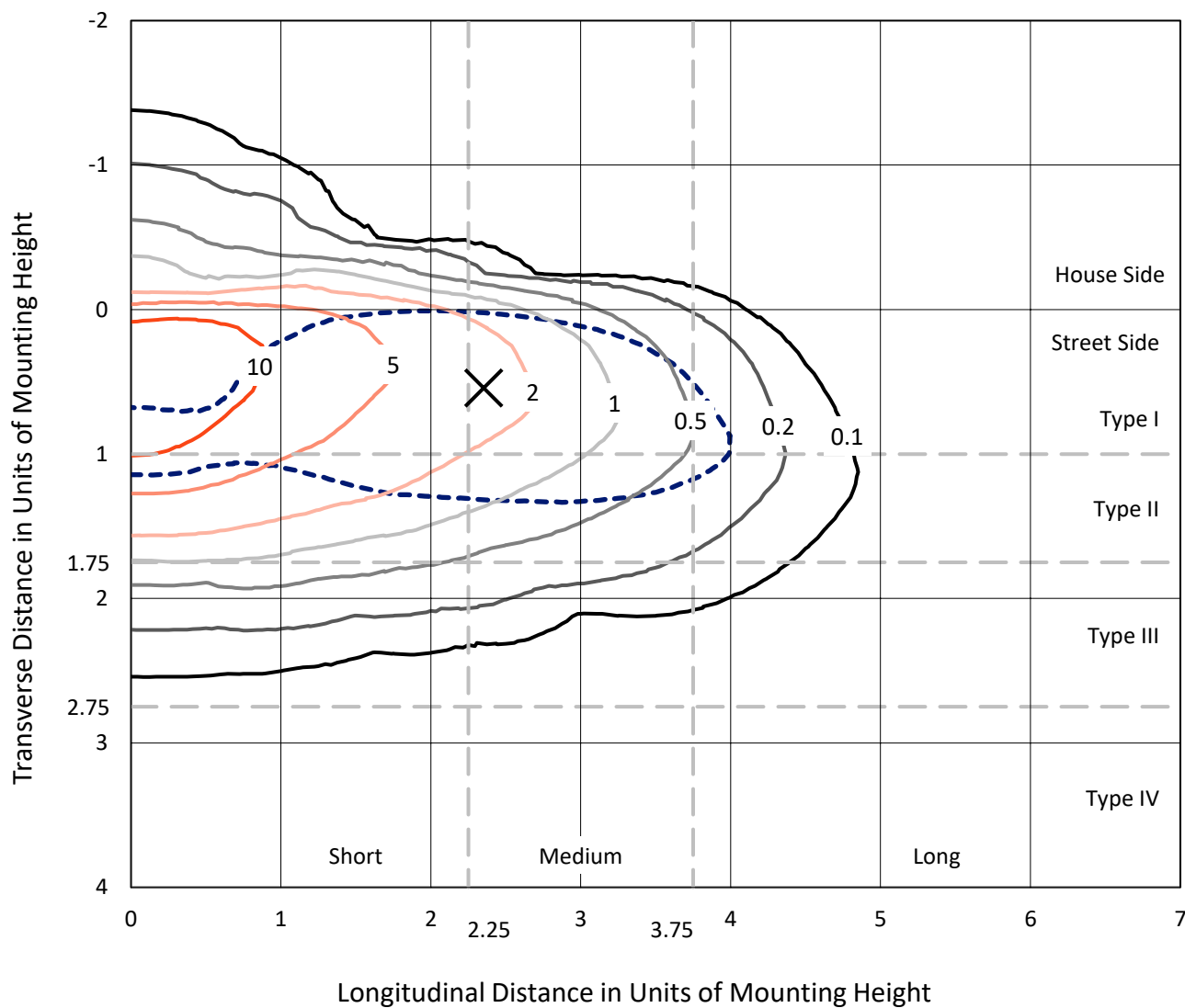
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

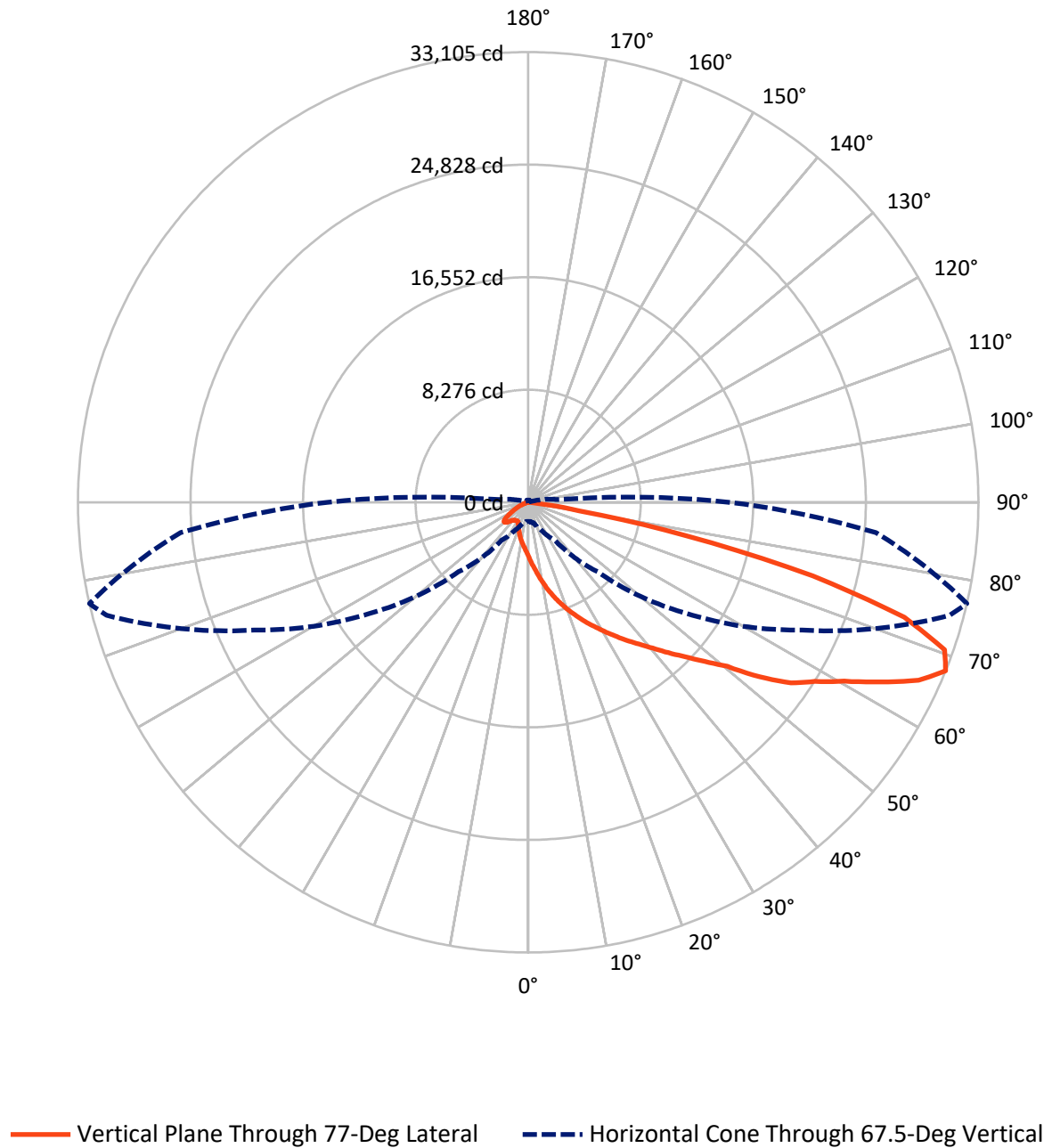
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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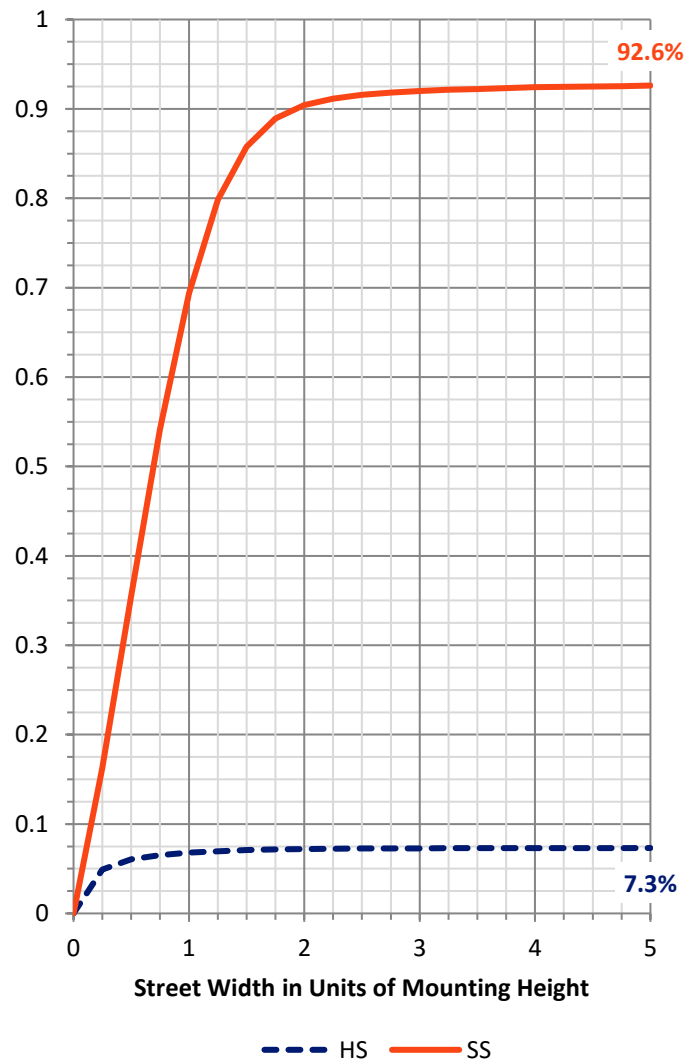
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2540.4	0.0	2540.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	31989.6	0.0	31989.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	34530.0	0.0	34530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.4	1.2
10°-20°	1423.2	4.1
20°-30°	2746.4	8.0
30°-40°	4767.9	13.8
40°-50°	6922.7	20.0
50°-60°	7949.8	23.0
60°-70°	6901.9	20.0
70°-80°	3250.9	9.4
80°-90°	160.8	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°	34530.0	100.0
0°-180°	34530.0	100.0

Coefficient of Utilization



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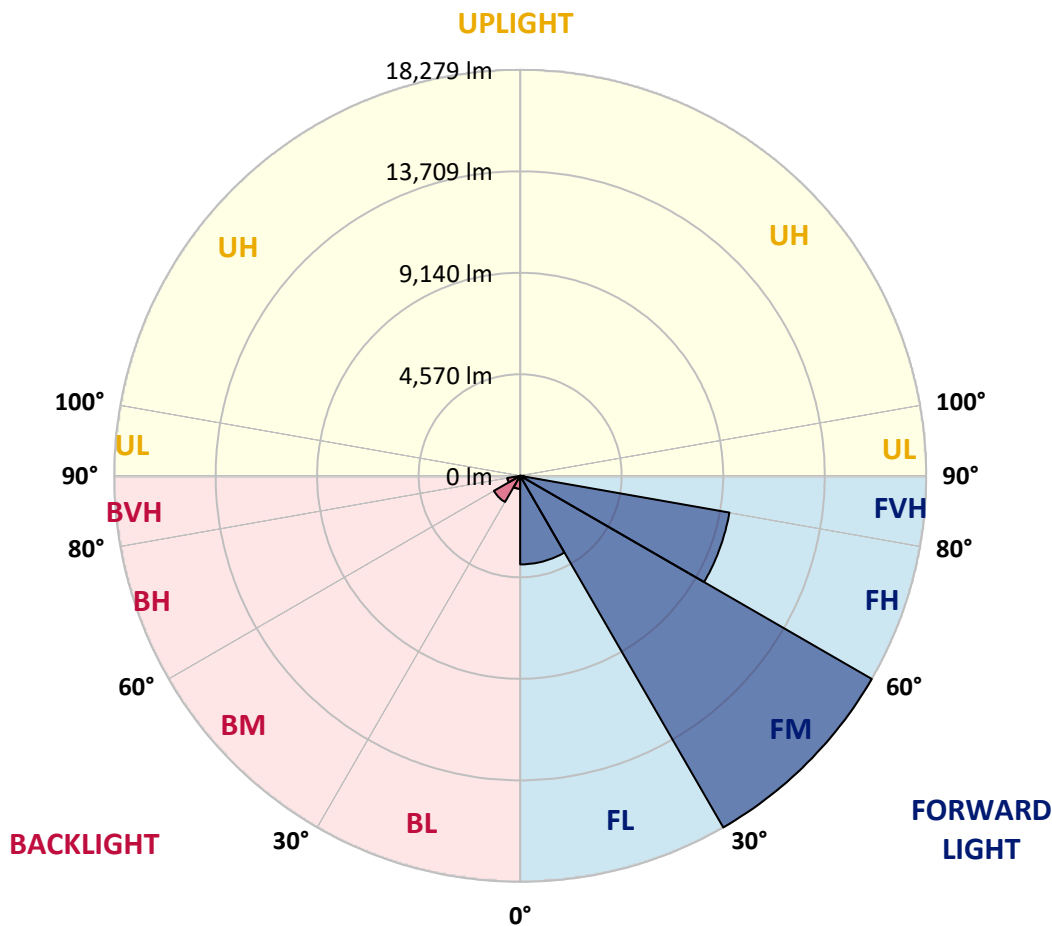
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3987.8	11.5			
FM	(30°-60°)	18279.2	52.9			
FH	(60°-80°)	9564.7	27.7			G4/12000
FVH	(80°-90°)	157.8	0.5			G2/225
BL	(0°-30°)	588.1	1.7	B2/1000		
BM	(30°-60°)	1361.2	3.9	B2/2500		
BH	(60°-80°)	588.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	5512.8	5547.1	5497.8	5403.4	5261.9	5169.7	4944.6	4732.3	4496.4	4421.4	4185.5
5°	6720.0	6750.0	6694.3	6591.3	6402.6	6222.5	5926.6	5482.8	5021.8	4873.8	4455.7
7.5°	7614.1	7631.3	7609.8	7515.5	7335.4	7131.7	6801.5	6276.1	5592.1	5429.2	4788.0
10°	8257.4	8313.1	8306.7	8270.3	8150.2	7985.1	7633.4	7035.2	6231.1	6021.0	5163.3
12.5°	8684.1	8746.3	8782.7	8864.2	8857.8	8752.7	8443.9	7811.4	6867.9	6621.4	5585.7
15°	8808.5	8874.9	9014.3	9203.0	9370.2	9423.8	9207.3	8572.6	7569.1	7253.9	6018.8
17.5°	8737.7	8840.6	9007.9	9305.9	9672.6	9914.9	9891.3	9308.1	8205.9	7845.7	6443.4
20°	8894.2	8992.9	9123.7	9374.5	9801.2	10240.8	10416.6	10011.4	8838.5	8461.1	6889.4
22.5°	9760.5	9743.3	9756.2	9796.9	10052.1	10487.4	10849.8	10650.3	9464.6	9078.6	7361.1
25°	11132.8	11055.6	10924.8	10703.9	10639.6	10849.8	11227.1	11216.4	10125.0	9711.2	7843.6
27.5°	12706.6	12693.8	12387.2	11855.4	11555.2	11473.7	11653.8	11767.5	10779.0	10337.3	8328.2
30°	14214.0	14248.3	13834.5	13242.7	12691.6	12372.1	12209.2	12290.7	11443.7	11012.7	8827.8
32.5°	15526.3	15562.7	15112.5	14419.9	13738.0	13352.1	13009.0	12807.4	12168.4	11698.9	9376.7
35°	16634.9	16671.3	16154.6	15389.1	14662.2	14312.7	13924.6	13373.5	12897.5	12460.1	9987.8
37.5°	17625.5	17614.8	16922.2	16150.3	15436.2	15159.6	14955.9	14070.4	13648.0	13225.5	10665.4
40°	18210.9	18255.9	17664.1	16812.8	16120.2	15918.7	15905.8	14934.5	14514.2	14104.7	11407.3
42.5°	18382.4	18461.7	18032.9	17333.9	16705.6	16486.9	16823.6	15869.4	15522.0	15123.2	12245.6
45°	18073.6	18150.8	17955.7	17471.1	17104.4	16962.9	17612.6	16838.6	16598.4	16203.9	13191.2
47.5°	17173.1	17269.5	17316.7	17213.8	17209.5	17353.2	18320.2	17859.2	17876.4	17473.2	14286.9
50°	15429.8	15592.8	16025.9	16390.4	16954.3	17661.9	19008.5	18965.6	19317.3	18969.9	15715.0
52.5°	12260.7	12492.2	13984.6	14981.7	16248.9	17604.0	19765.4	20741.0	21845.3	21337.1	17728.4
55°	9852.7	9852.7	11066.3	12931.8	14872.3	17222.4	20095.6	21894.6	23567.1	23447.0	19145.7
57.5°	8032.2	8128.7	8902.8	10551.7	12880.3	16313.2	20299.3	22619.4	24954.4	24866.5	20530.9
60°	4957.4	5165.4	6627.8	8255.2	10613.9	14694.3	20170.7	23352.7	26637.6	26708.4	22199.1
62.5°	2791.8	2869.0	3520.8	5939.5	8253.1	12518.0	19186.5	23762.2	28790.4	29090.6	23918.8
65°	1927.7	1966.2	2217.1	3696.6	5720.8	9966.3	17263.1	23507.1	30947.5	31554.3	25376.8
67.5°	1400.2	1419.5	1576.0	2257.9	3394.3	7226.0	14248.3	22220.6	32090.4	33104.6	25655.6
70°	1076.4	1089.3	1202.9	1483.8	2004.8	4460.0	10348.0	19662.5	31262.7	32474.2	24227.5
72.5°	874.8	887.7	975.6	1097.8	1329.4	2637.4	6271.8	15968.0	27609.0	28917.0	20625.3
75°	737.6	754.8	834.1	913.4	1042.1	1693.9	2941.9	11119.9	20762.5	21620.2	14342.7
77.5°	409.5	377.4	677.6	756.9	879.1	1072.1	1376.6	6544.2	11628.1	11866.1	6364.0
80°	255.2	263.7	538.2	609.0	675.4	540.3	630.4	2519.5	4031.1	3829.6	1232.9
82.5°	15.0	34.3	413.8	439.6	463.2	231.6	238.0	855.5	971.3	892.0	218.7
85°	0.0	0.0	188.7	152.2	160.8	66.5	68.6	199.4	130.8	141.5	42.9
87.5°	0.0	0.0	0.0	4.3	0.0	6.4	12.9	17.2	6.4	8.6	15.0
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°	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8	3981.8
2.5°	4035.4	3885.3	3580.8	3282.8	3040.5	2815.4	2654.5	2502.3	2425.1	2420.8	2416.5
5°	4157.6	3842.4	3233.5	2695.3	2262.2	1914.8	1689.6	1528.8	1447.3	1419.5	1415.2
7.5°	4329.2	3855.3	2929.0	2180.7	1670.3	1372.3	1243.6	1192.2	1175.0	1155.7	1151.4
10°	4545.7	3885.3	2656.7	1756.1	1316.6	1166.5	1115.0	1093.6	1080.7	1067.8	1063.5
12.5°	4788.0	3913.2	2386.5	1458.1	1157.9	1080.7	1044.2	1018.5	1001.4	986.3	982.1
15°	5023.9	3930.4	2105.6	1250.1	1076.4	1014.2	975.6	947.7	924.2	907.0	904.9
17.5°	5257.6	3953.9	1841.9	1125.7	1009.9	947.7	909.1	874.8	855.5	836.2	834.1
20°	5517.1	3949.7	1593.2	1037.8	943.5	881.3	840.5	808.4	789.1	767.6	765.5
22.5°	5757.2	3928.2	1374.4	962.8	874.8	814.8	769.8	737.6	718.3	701.2	699.0
25°	6033.8	3911.1	1192.2	894.1	810.5	750.5	701.2	671.1	649.7	634.7	632.5
27.5°	6299.7	3885.3	1059.2	832.0	748.3	690.4	643.3	609.0	589.7	578.9	578.9
30°	6561.3	3878.9	1009.9	771.9	692.6	634.7	587.5	555.4	540.3	536.1	533.9
32.5°	6876.5	3896.0	1031.4	750.5	641.1	583.2	538.2	514.6	499.6	499.6	499.6
35°	7213.2	3891.8	1063.5	769.8	606.8	531.8	497.5	482.4	467.4	467.4	467.4
37.5°	7635.6	3898.2	1089.3	801.9	593.9	488.9	469.6	450.3	441.7	441.7	441.7
40°	8266.0	4110.5	1076.4	829.8	589.7	458.9	420.3	413.8	407.4	407.4	407.4
42.5°	9037.9	4571.5	1093.6	832.0	587.5	437.4	386.0	398.8	383.8	381.7	379.5
45°	9882.7	5075.4	1202.9	786.9	585.4	426.7	368.8	383.8	360.2	360.2	360.2
47.5°	10721.1	5575.0	1314.4	722.6	578.9	424.6	353.8	345.2	338.8	340.9	340.9
50°	11876.8	5982.4	1357.3	634.7	563.9	420.3	325.9	328.1	323.8	328.1	328.1
52.5°	13135.5	6068.1	1305.8	536.1	521.0	407.4	306.6	315.2	313.1	317.3	317.3
55°	13920.3	5975.9	1078.5	446.0	454.6	355.9	287.3	304.5	304.5	304.5	304.5
57.5°	14730.8	5583.5	765.5	362.4	377.4	291.6	270.2	293.8	291.6	289.5	289.5
60°	15314.0	4948.9	503.9	298.0	300.2	240.2	250.9	276.6	274.5	263.7	263.7
62.5°	15749.3	4247.7	323.8	253.0	229.4	216.6	229.4	250.9	242.3	218.7	214.4
65°	15700.0	3276.4	248.7	216.6	188.7	188.7	199.4	218.7	193.0	154.4	150.1
67.5°	14784.4	2217.1	205.8	182.3	158.7	156.5	165.1	182.3	165.1	130.8	126.5
70°	13148.4	1449.5	165.1	141.5	126.5	115.8	132.9	156.5	139.4	105.1	100.8
72.5°	10671.8	883.4	124.4	102.9	92.2	75.0	105.1	128.7	111.5	77.2	72.9
75°	6904.4	450.3	85.8	66.5	49.3	45.0	77.2	96.5	77.2	47.2	40.7
77.5°	2641.7	188.7	47.2	30.0	25.7	21.4	42.9	57.9	32.2	10.7	8.6
80°	508.2	79.3	23.6	15.0	12.9	8.6	6.4	4.3	0.0	0.0	0.0
82.5°	87.9	25.7	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	0.0	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)