

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: P951653

Luminaire Tested: **GALN-SB5D-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951653
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-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 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: 36726 lumens
Efficiency: N/A
Efficacy: 100.6 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



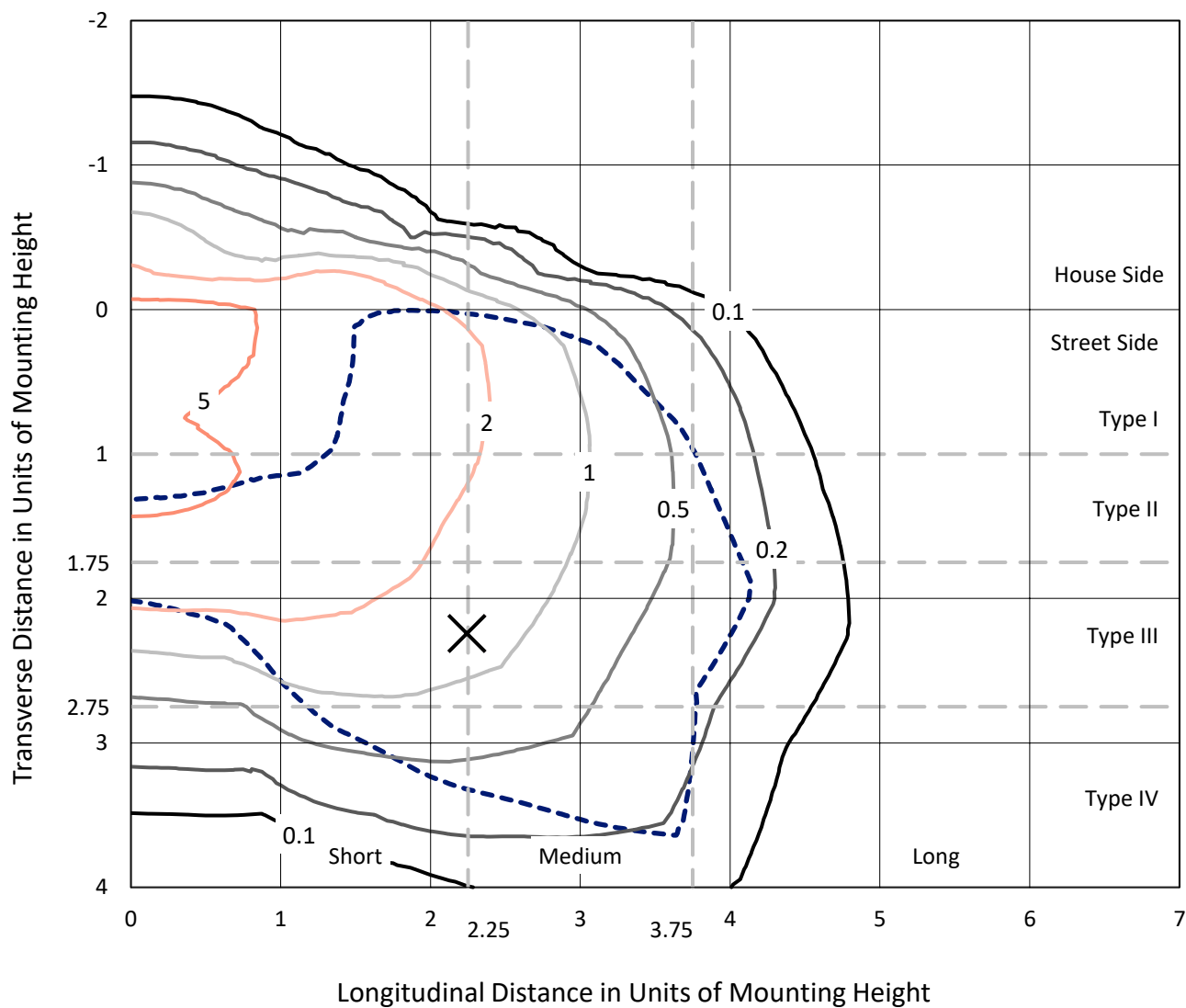
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Iso-Footcandle Lines of Horizontal Illumination

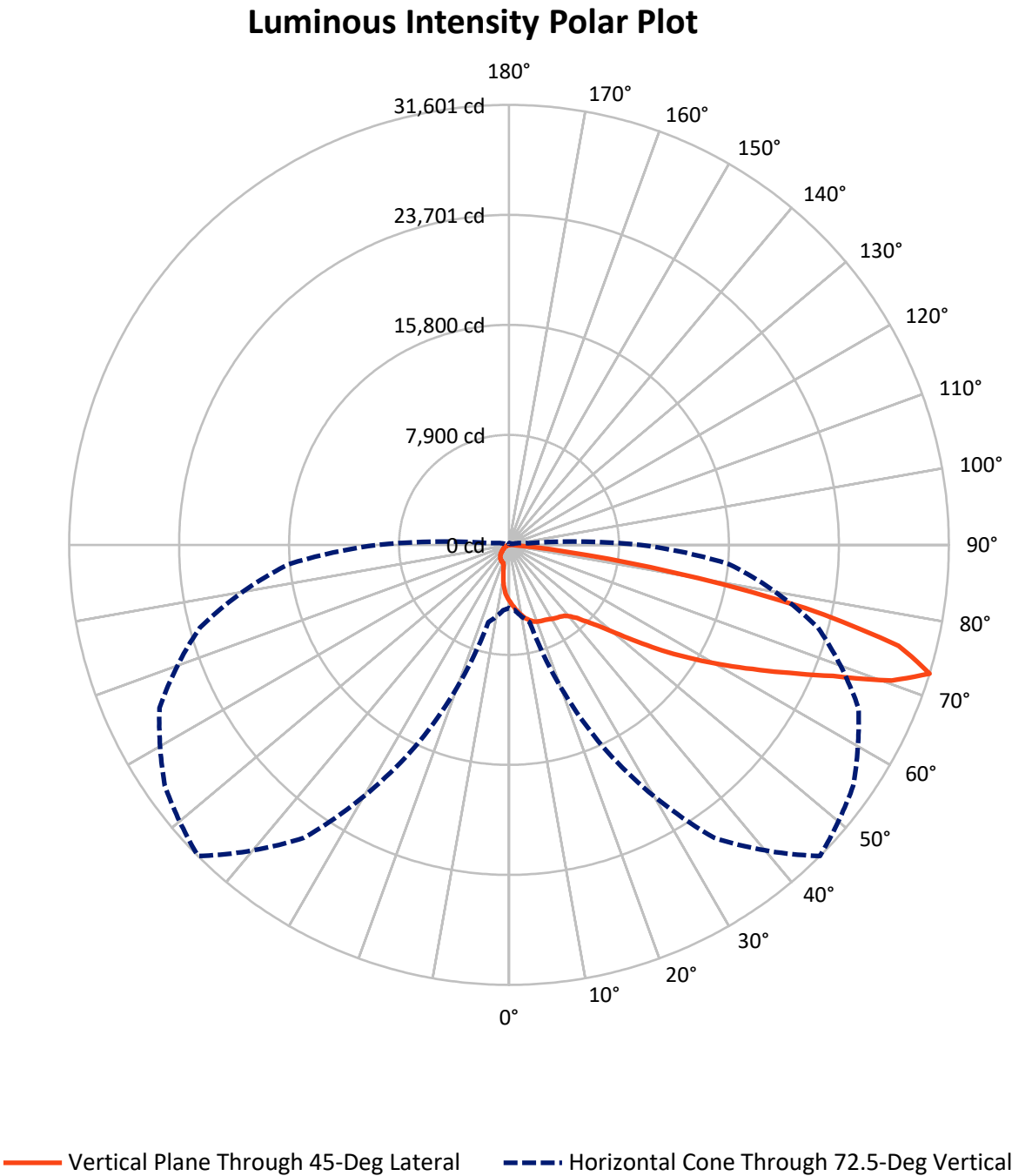
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type IV - Short - N/A

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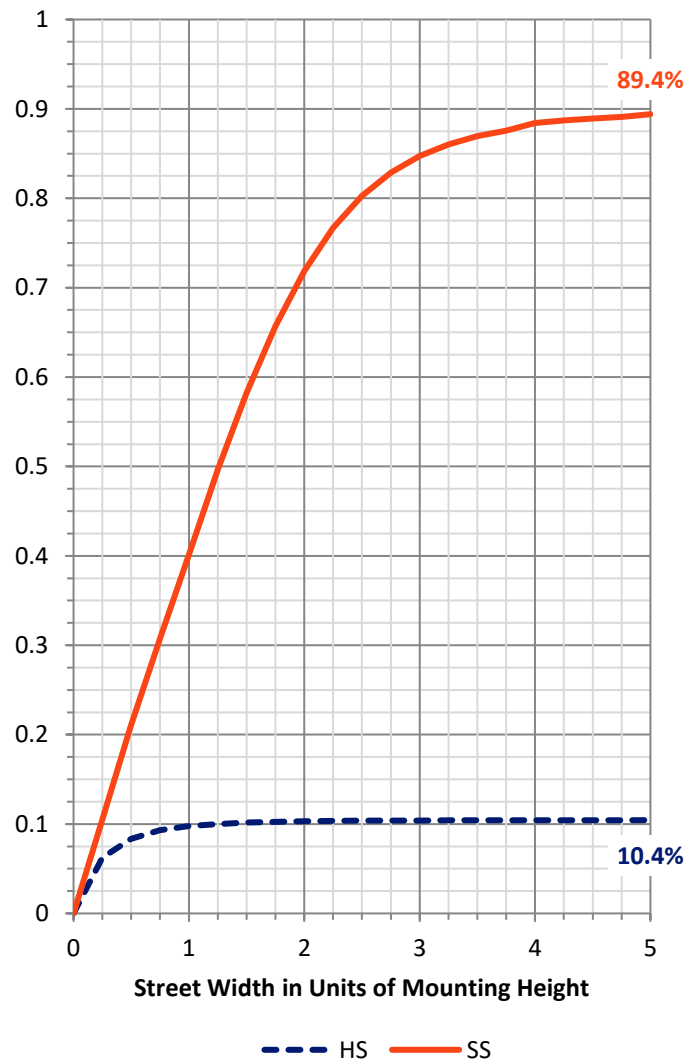
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.9	0.0	3858.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32867.1	0.0	32867.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	36726.0	0.0	36726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.1	1.0
10°-20°	1107.9	3.0
20°-30°	1819.4	5.0
30°-40°	2580.3	7.0
40°-50°	4264.9	11.6
50°-60°	7661.5	20.9
60°-70°	10638.4	29.0
70°-80°	7716.7	21.0
80°-90°	557.9	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°	36726.0	100.0
0°-180°	36726.0	100.0

Coefficient of Utilization



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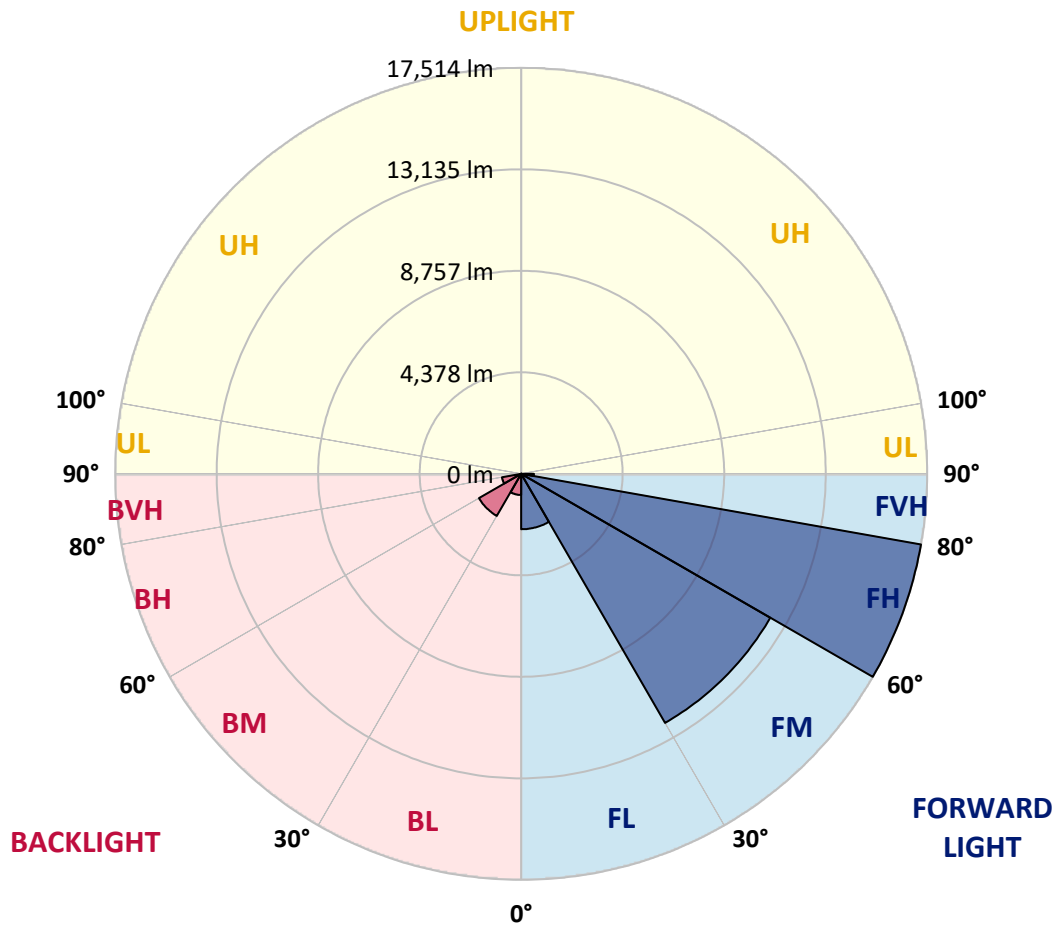
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2392.3	6.5			
FM	(30°-60°)	12408.0	33.8			
FH	(60°-80°)	17513.6	47.7			G5
FVH	(80°-90°)	553.2	1.5			G4/750
BL	(0°-30°)	914.0	2.5	B2/1000		
BM	(30°-60°)	2098.7	5.7	B2/2500		
BH	(60°-80°)	841.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.7	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°	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4
2.5°	4394.4	4401.9	4396.9	4366.8	4316.7	4289.1	4274.1	4224.0	4191.4	4133.7	4073.5
5°	4798.0	4828.1	4810.5	4750.4	4655.1	4587.4	4567.4	4464.6	4371.9	4264.1	4138.7
7.5°	5226.7	5241.7	5209.1	5131.4	5003.6	4888.3	4870.7	4727.8	4579.9	4414.5	4244.0
10°	5597.7	5615.2	5565.1	5452.3	5306.9	5164.0	5138.9	4981.0	4805.5	4602.5	4384.4
12.5°	5908.5	5926.1	5860.9	5725.5	5565.1	5417.2	5392.1	5226.7	5033.7	4808.0	4537.3
15°	6144.2	6176.8	6089.0	5943.6	5770.6	5622.7	5610.2	5447.3	5259.3	5008.6	4720.3
17.5°	6282.0	6314.6	6231.9	6056.4	5908.5	5783.2	5768.1	5632.8	5457.3	5216.6	4898.3
20°	6304.6	6334.7	6246.9	6094.0	5971.2	5870.9	5863.4	5765.6	5637.8	5407.2	5091.3
22.5°	6236.9	6274.5	6194.3	6071.5	5986.2	5933.6	5923.6	5868.4	5795.7	5600.2	5271.8
25°	6166.7	6196.8	6136.6	6028.9	5983.7	5978.7	5986.2	5976.2	5961.2	5795.7	5482.4
27.5°	6161.7	6194.3	6126.6	6023.8	5998.8	6051.4	6058.9	6106.6	6119.1	5973.7	5685.4
30°	6204.3	6226.9	6161.7	6053.9	6041.4	6161.7	6164.2	6249.4	6269.5	6124.1	5886.0
32.5°	6297.1	6322.1	6257.0	6099.0	6081.5	6249.4	6257.0	6369.8	6402.4	6284.5	6096.5
35°	6515.2	6545.3	6470.0	6224.4	6161.7	6332.2	6354.7	6487.6	6552.8	6455.0	6314.6
37.5°	7059.1	6971.4	6868.6	6477.6	6344.7	6462.5	6500.1	6655.5	6770.9	6658.1	6575.3
40°	8410.3	8134.6	7813.7	6908.7	6665.6	6740.8	6770.9	6926.3	7084.2	6973.9	6933.8
42.5°	10438.3	10112.4	9596.0	7901.4	7149.4	7187.0	7209.6	7344.9	7568.0	7480.3	7490.3
45°	12245.7	12127.9	11601.5	9596.0	8054.3	7868.8	7896.4	7966.6	8295.0	8262.4	8327.6
47.5°	13634.5	13566.8	13160.7	11541.3	9583.5	8703.6	8781.3	8813.9	9287.7	9403.0	9578.5
50°	14702.4	14677.3	14313.8	13271.0	11581.4	9934.4	9962.0	9891.8	10601.3	10887.0	11220.4
52.5°	15710.1	15795.3	15527.1	14877.8	13714.7	11546.3	11541.3	11210.4	12168.0	12599.2	13168.2
55°	16620.1	16650.2	16677.7	16517.3	15860.5	13381.3	13333.7	12792.2	13985.4	14431.6	15048.3
57.5°	17474.9	17487.4	17733.1	18061.5	18094.1	15351.6	15263.9	14614.6	15970.8	16289.2	16667.7
60°	18048.9	18106.6	18625.5	19538.0	19936.6	17384.6	17337.0	16675.2	17991.3	18139.2	18069.0
62.5°	17221.7	17572.7	18881.2	20691.1	21676.3	19638.3	19615.7	18994.0	20117.1	19996.7	19395.1
65°	13940.3	14534.4	16835.7	21470.7	23383.4	22155.1	22187.7	21525.9	22300.5	21909.4	20473.0
67.5°	9751.4	10378.1	13100.5	21533.4	25291.1	25110.6	25298.6	24260.8	24619.3	23741.9	20728.7
70°	6743.3	7066.7	8839.0	20184.7	26777.6	29181.6	29176.6	27619.9	26925.5	24576.7	19425.2
72.5°	4534.8	4702.8	5740.6	16013.4	25684.7	31600.7	31455.3	30186.9	27702.6	22984.8	15870.5
75°	1912.7	2035.5	2657.2	8999.4	20320.1	28910.9	28517.3	26677.3	24614.3	18099.1	9901.9
77.5°	606.6	659.3	1047.8	3221.2	11192.9	21731.4	21315.3	16660.2	16497.2	9079.6	3619.8
80°	288.3	335.9	589.1	1293.5	4404.4	11819.6	11761.9	7558.0	7096.7	2451.6	727.0
82.5°	125.3	147.9	325.9	691.9	1970.3	4216.4	4301.7	2572.0	2128.3	930.0	223.1
85°	40.1	52.6	150.4	318.4	832.3	1047.8	1035.3	611.7	857.3	506.4	77.7
87.5°	0.0	0.0	50.1	72.7	85.2	60.2	67.7	52.6	238.1	140.4	27.6
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°	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4	4023.4
2.5°	4043.5	4003.4	3933.2	3868.0	3810.3	3752.7	3717.6	3667.4	3662.4	3662.4	3675.0
5°	4071.0	4005.9	3880.5	3747.7	3594.7	3449.4	3304.0	3163.6	3118.5	3085.9	3100.9
7.5°	4151.3	4048.5	3850.4	3597.3	3306.5	2988.1	2765.0	2524.3	2431.6	2381.5	2389.0
10°	4266.6	4126.2	3825.4	3381.7	2910.4	2476.7	2158.4	1897.6	1797.4	1754.8	1754.8
12.5°	4394.4	4221.4	3780.3	3113.4	2476.7	1957.8	1647.0	1526.6	1511.6	1511.6	1511.6
15°	4547.3	4336.8	3702.5	2797.6	2023.0	1549.2	1438.9	1443.9	1459.0	1469.0	1469.0
17.5°	4705.3	4459.6	3579.7	2444.1	1621.9	1393.8	1396.3	1403.8	1416.3	1426.4	1426.4
20°	4875.7	4582.4	3416.8	2068.1	1391.3	1348.7	1356.2	1363.7	1373.7	1378.7	1381.2
22.5°	5058.7	4697.7	3223.7	1699.6	1313.6	1311.1	1313.6	1321.1	1333.6	1333.6	1338.6
25°	5254.2	4825.6	3003.1	1431.4	1273.5	1273.5	1278.5	1283.5	1293.5	1293.5	1296.0
27.5°	5454.8	4943.4	2770.0	1291.0	1238.4	1235.9	1235.9	1243.4	1248.4	1250.9	1253.4
30°	5675.4	5081.3	2536.9	1260.9	1210.8	1198.2	1190.7	1195.7	1200.8	1203.3	1208.3
32.5°	5901.0	5214.1	2328.8	1273.5	1183.2	1160.6	1135.6	1130.6	1130.6	1140.6	1148.1
35°	6151.7	5359.5	2168.4	1316.1	1168.2	1105.5	1065.4	1042.8	1045.3	1060.4	1067.9
37.5°	6452.5	5535.0	2050.6	1353.7	1158.1	1042.8	977.7	950.1	932.5	950.1	945.1
40°	6846.1	5793.2	1965.3	1383.8	1145.6	970.1	882.4	837.3	804.7	814.7	809.7
42.5°	7425.1	6199.3	1932.7	1386.3	1118.0	884.9	784.6	724.5	676.8	679.3	669.3
45°	8237.3	6841.1	2100.7	1353.7	1057.9	792.1	681.8	601.6	571.6	564.0	554.0
47.5°	9350.4	7776.1	2489.3	1286.0	970.1	701.9	581.6	513.9	491.3	478.8	471.3
50°	10841.9	8976.8	2920.4	1210.8	882.4	616.7	498.9	456.2	441.2	428.7	426.2
52.5°	12571.6	10195.1	3273.9	1135.6	794.7	541.5	446.2	421.1	408.6	398.6	396.1
55°	14158.4	11034.9	3253.8	1055.4	709.4	481.3	408.6	393.6	378.5	368.5	363.5
57.5°	15146.1	11152.7	2682.3	967.6	611.7	433.7	373.5	363.5	345.9	333.4	330.9
60°	15599.8	10480.9	1880.1	852.3	513.9	388.6	335.9	330.9	308.3	290.8	285.8
62.5°	15682.5	9232.5	1253.4	709.4	428.7	345.9	298.3	290.8	260.7	230.6	215.6
65°	15346.6	7447.7	867.4	554.0	366.0	300.8	255.7	240.7	208.1	178.0	168.0
67.5°	14283.7	5229.2	604.1	398.6	310.8	238.1	203.1	198.0	173.0	147.9	140.4
70°	12336.0	2980.6	403.6	298.3	245.7	162.9	160.4	165.4	140.4	120.3	110.3
72.5°	9458.2	1363.7	250.7	218.1	168.0	110.3	127.8	130.4	107.8	90.2	80.2
75°	5567.6	584.1	157.9	140.4	85.2	72.7	92.8	95.3	72.7	57.7	50.1
77.5°	1895.1	220.6	100.3	82.7	42.6	40.1	60.2	60.2	40.1	22.6	17.5
80°	431.2	82.7	50.1	32.6	20.1	17.5	20.1	17.5	10.0	2.5	0.0
82.5°	122.8	32.6	20.1	12.5	7.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	35.1	15.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	2.5	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)