

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: P943304

Luminaire Tested: **GALN-SB7D-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943304
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-SB7D-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 43655 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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

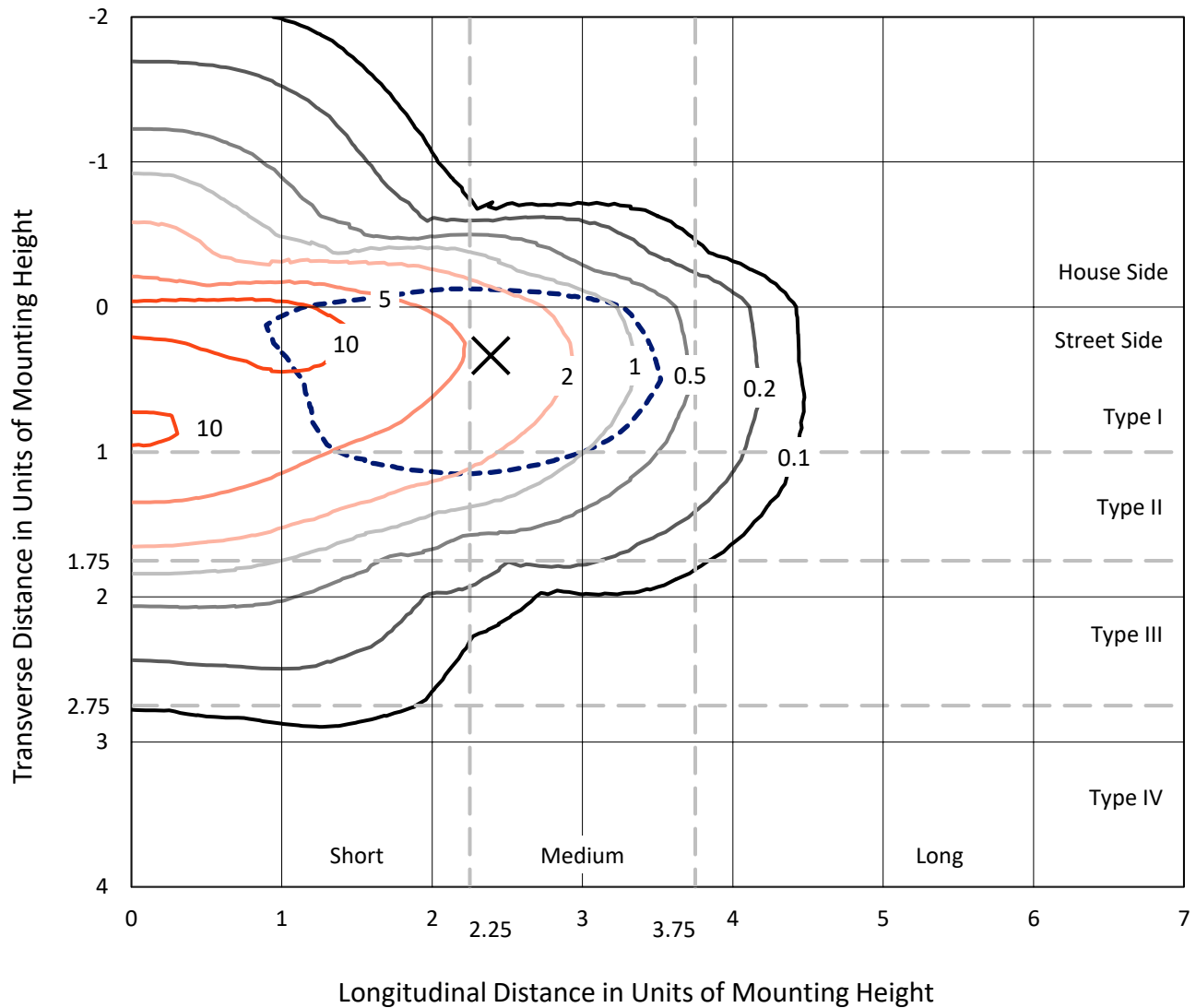


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

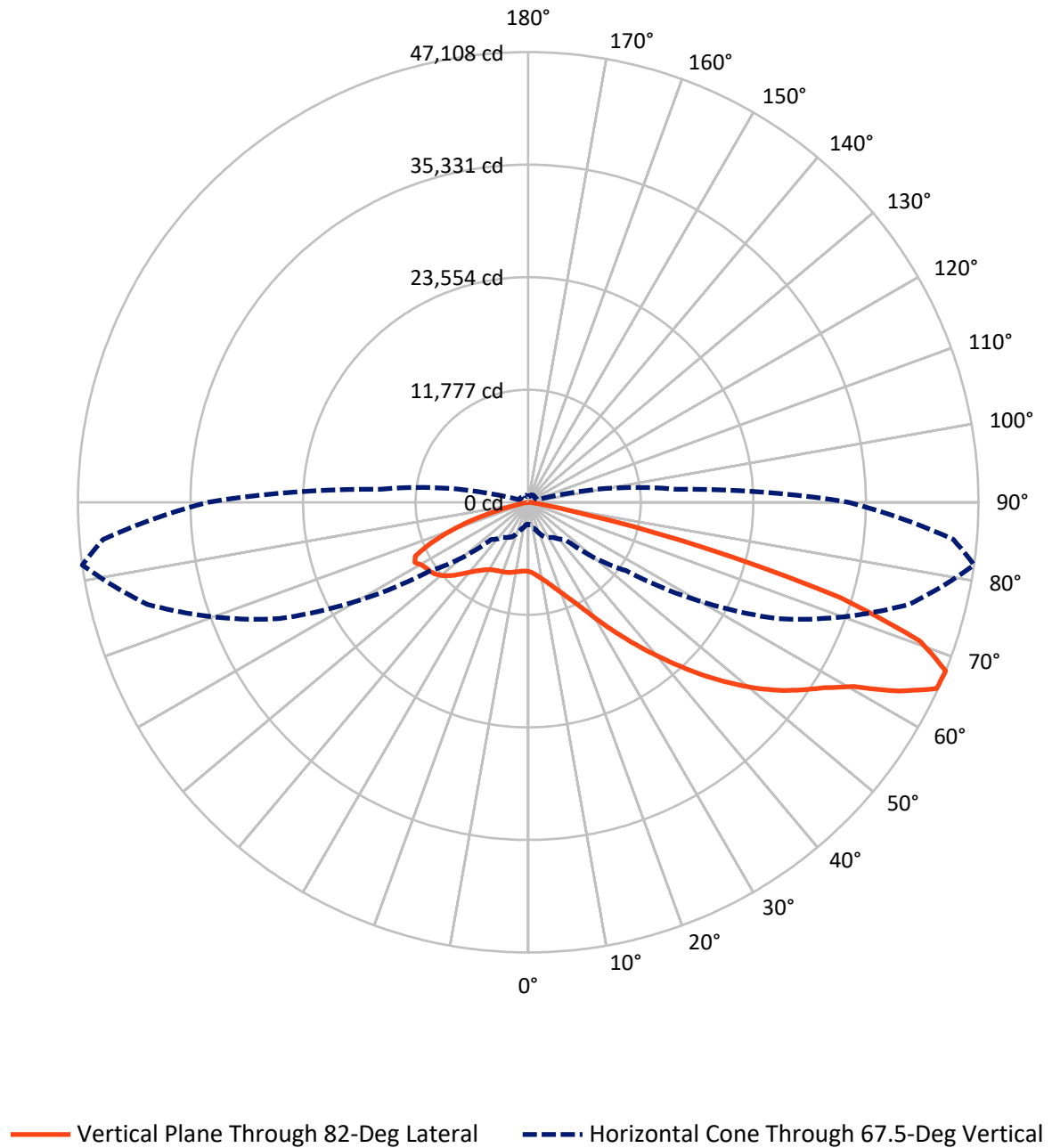


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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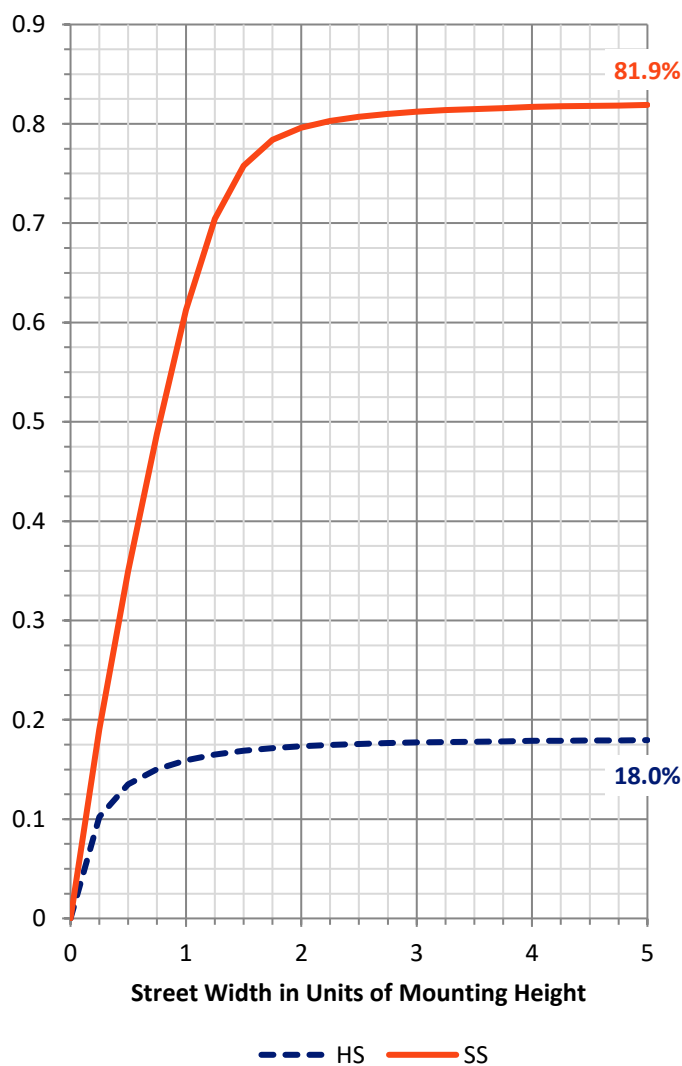
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7907.7	0.0	7907.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35747.3	0.0	35747.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	43655.0	0.0	43655.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.3	1.5
10°-20°	1674.4	3.8
20°-30°	2681.8	6.1
30°-40°	4742.2	10.9
40°-50°	8308.8	19.0
50°-60°	11081.7	25.4
60°-70°	10316.5	23.6
70°-80°	3959.4	9.1
80°-90°	245.9	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°	43655.0	100.0
0°-180°	43655.0	100.0

Coefficient of Utilization



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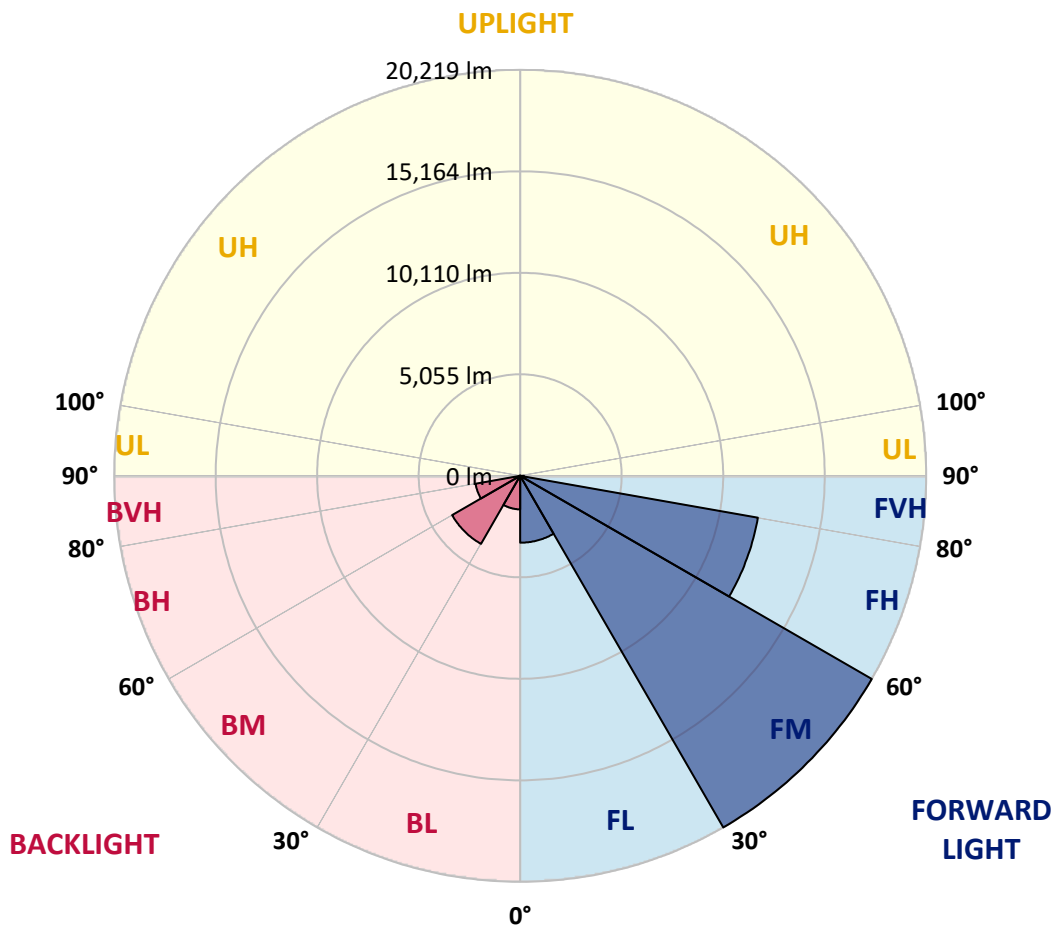
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3330.4	7.6			
FM	(30°-60°)	20219.2	46.3			
FH	(60°-80°)	12018.9	27.5			G5
FVH	(80°-90°)	178.8	0.4			G2/225
BL	(0°-30°)	1670.1	3.8	B3/2500		
BM	(30°-60°)	3913.5	9.0	B3/5000		
BH	(60°-80°)	2257.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	67.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2
2.5°	7643.9	7687.9	7662.8	7650.2	7628.2	7596.7	7571.6	7493.0	7411.3	7357.9	7339.0
5°	7797.9	7841.9	7838.8	7851.3	7867.1	7876.5	7870.2	7782.2	7665.9	7574.7	7521.3
7.5°	7665.9	7716.2	7757.0	7819.9	7929.9	8046.2	8102.8	8083.9	7964.5	7838.8	7772.8
10°	7291.9	7345.3	7442.7	7590.5	7823.0	8074.5	8285.1	8382.5	8307.1	8168.8	8077.6
12.5°	6606.7	6660.1	6851.8	7172.4	7562.2	7999.1	8401.4	8662.2	8681.1	8542.8	8435.9
15°	5836.6	5890.1	6094.4	6496.7	7090.7	7791.6	8464.2	8957.7	9124.3	9004.8	8876.0
17.5°	5358.9	5406.0	5560.1	5883.8	6503.0	7376.7	8442.2	9272.0	9652.3	9558.0	9404.0
20°	5214.3	5255.2	5327.5	5553.8	6069.2	6946.1	8297.6	9567.4	10221.2	10167.8	9994.9
22.5°	5368.3	5406.0	5428.0	5528.6	5852.4	6663.3	8115.4	9869.2	10881.2	10887.5	10676.9
25°	5723.5	5761.2	5736.1	5798.9	5940.4	6575.3	8046.2	10224.3	11711.0	11780.1	11541.3
27.5°	6308.1	6311.2	6251.5	6248.4	6270.4	6707.3	8118.5	10604.6	12757.6	12886.5	12591.1
30°	7480.5	7433.3	7203.9	6955.6	6842.4	7103.3	8319.7	11054.1	13992.9	14222.3	13851.4
32.5°	9287.7	9218.6	8797.4	8203.4	7606.2	7741.3	8681.1	11566.4	15338.1	15753.0	15300.4
35°	11249.0	11230.1	10790.1	9906.9	8863.4	8649.7	9268.9	12239.0	16805.9	17465.9	16928.5
37.5°	13071.9	13062.5	12811.1	11770.7	10500.9	9916.3	10211.8	13119.1	18377.4	19332.9	18698.0
40°	14737.8	14766.0	14514.6	13584.3	12305.0	11541.3	11494.1	14206.6	20124.9	21366.4	20612.1
42.5°	16177.3	16208.7	15954.1	15265.8	14087.1	13339.1	13068.8	15539.2	21831.6	23550.9	22658.2
45°	17154.8	17349.6	17311.9	16761.9	15916.4	15140.1	14960.9	17211.3	23777.2	25867.3	24820.7
47.5°	17431.4	17610.5	17893.4	17968.8	17453.4	16689.6	16903.3	19226.0	25744.7	28186.9	26995.6
50°	16749.3	16915.9	17503.6	18286.3	18644.6	18408.8	18792.3	21385.3	27759.4	30500.1	29129.8
52.5°	15404.1	15573.8	16315.6	17553.9	19015.4	19757.2	20687.5	23513.2	29711.2	32690.9	31150.8
55°	13458.5	13637.7	14590.0	15991.8	18308.3	20313.5	22268.5	25637.9	31499.6	34661.5	32973.7
57.5°	10812.1	10944.1	11934.2	13895.4	16529.3	19760.4	23434.6	27957.4	33184.3	36597.7	34781.0
60°	7046.7	7163.0	8313.4	10500.9	13581.1	17912.2	23667.2	30544.2	35422.2	39115.2	37216.8
62.5°	4686.3	4764.9	5446.9	7053.0	9564.3	14363.7	22306.2	32609.1	38703.5	43496.7	41394.0
65°	3215.3	3293.9	3976.0	5094.9	6179.2	9501.4	18393.1	32335.7	41676.8	46976.0	44489.9
67.5°	2294.4	2360.4	2938.8	3994.8	4472.6	5519.2	12468.5	28840.6	41249.4	47108.0	44656.4
70°	1643.8	1681.5	2159.3	3111.6	3554.8	3315.9	6933.6	22057.9	36116.8	43499.8	41255.7
72.5°	1150.4	1162.9	1499.2	2369.9	2863.3	2420.1	3300.2	14706.3	27316.2	34142.9	31983.7
75°	779.5	795.2	1008.9	1738.1	2297.6	1848.1	1747.5	7885.9	16035.8	18899.2	16941.0
77.5°	477.7	484.0	650.6	1188.1	1719.2	1408.1	1125.2	3341.1	6204.4	6091.2	5192.3
80°	270.3	270.3	414.9	738.6	1172.4	908.3	788.9	1420.7	1964.4	1725.5	1521.2
82.5°	150.9	154.0	301.7	458.9	776.3	537.5	433.7	656.9	848.6	751.2	653.8
85°	62.9	69.1	185.4	216.9	370.9	267.2	176.0	276.6	314.3	279.7	204.3
87.5°	6.3	9.4	56.6	40.9	44.0	53.4	25.1	53.4	44.0	44.0	31.4
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°	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2	7232.2
2.5°	7279.3	7232.2	7112.7	6974.4	6792.1	6704.1	6584.7	6503.0	6433.8	6440.1	6377.2
5°	7420.7	7301.3	7034.1	6701.0	6286.1	5990.7	5676.3	5459.5	5283.5	5245.7	5160.9
7.5°	7615.6	7427.0	6958.7	6358.4	5657.5	5126.3	4651.7	4346.8	4130.0	4060.8	3991.7
10°	7867.1	7593.6	6861.3	5927.8	4918.9	4243.1	3733.9	3495.1	3347.3	3297.1	3259.3
12.5°	8159.4	7785.3	6732.4	5402.9	4158.3	3507.6	3183.9	3064.5	3017.3	3001.6	2992.2
15°	8527.1	8024.2	6537.5	4780.6	3513.9	3058.2	2919.9	2904.2	2910.5	2904.2	2901.0
17.5°	8964.0	8285.1	6220.1	4139.4	3080.2	2828.7	2778.5	2791.0	2806.7	2803.6	2797.3
20°	9441.7	8542.8	5814.6	3570.5	2784.7	2665.3	2637.0	2649.6	2662.2	2655.9	2652.7
22.5°	9985.5	8819.4	5365.2	3127.3	2586.7	2514.4	2483.0	2486.2	2486.2	2473.6	2467.3
25°	10636.1	9124.3	4893.7	2813.0	2435.9	2379.3	2341.6	2329.0	2310.1	2272.4	2266.1
27.5°	11412.4	9448.0	4441.1	2593.0	2316.4	2263.0	2219.0	2187.6	2140.4	2077.6	2071.3
30°	12286.2	9840.9	4057.7	2454.7	2222.1	2168.7	2118.4	2071.3	2002.1	1923.5	1917.3
32.5°	13314.0	10262.1	3777.9	2363.6	2137.3	2080.7	2021.0	1964.4	1889.0	1810.4	1813.5
35°	14539.7	10771.2	3614.5	2300.7	2071.3	1995.8	1929.8	1867.0	1810.4	1741.2	1735.0
37.5°	15869.3	11311.8	3564.2	2269.3	2027.3	1911.0	1835.5	1791.5	1785.3	1744.4	1741.2
40°	17324.5	11953.0	3601.9	2250.4	1980.1	1829.3	1747.5	1738.1	1753.8	1681.5	1684.7
42.5°	18864.6	12713.6	3664.8	2228.4	1914.1	1747.5	1669.0	1669.0	1656.4	1555.8	1555.8
45°	20530.4	13590.5	3727.7	2175.0	1835.5	1665.8	1606.1	1584.1	1530.7	1433.2	1430.1
47.5°	22208.8	14483.2	3774.8	2077.6	1741.2	1596.7	1543.2	1492.9	1414.4	1326.4	1323.2
50°	23802.3	15284.6	3724.5	1933.0	1634.4	1530.7	1474.1	1404.9	1320.1	1260.4	1250.9
52.5°	25226.1	15979.3	3510.8	1763.3	1521.2	1461.5	1411.2	1338.9	1269.8	1206.9	1200.6
55°	26464.5	16541.9	3133.6	1603.0	1420.7	1401.8	1351.5	1260.4	1166.1	1112.6	1106.4
57.5°	27652.5	16969.3	2662.2	1470.9	1329.5	1335.8	1260.4	1178.6	1090.6	1034.1	1027.8
60°	29233.5	17541.4	2184.4	1348.4	1232.1	1250.9	1169.2	1109.5	999.5	927.2	917.8
62.5°	31760.5	18430.8	1735.0	1197.5	1118.9	1125.2	1090.6	1018.3	886.3	801.5	795.2
65°	33765.8	18104.0	1367.2	1034.1	990.1	999.5	999.5	920.9	779.5	682.0	672.6
67.5°	33539.5	15501.5	1090.6	873.8	867.5	873.8	895.8	829.8	691.5	612.9	600.3
70°	30896.2	12330.2	873.8	726.0	754.3	738.6	801.5	757.5	622.3	543.7	534.3
72.5°	25210.4	8882.3	666.3	600.3	578.3	603.5	722.9	682.0	518.6	430.6	421.2
75°	14731.5	4739.7	496.6	474.6	418.0	502.9	641.2	581.5	396.0	317.4	308.0
77.5°	4796.3	1653.2	364.6	348.9	311.2	405.5	546.9	490.3	323.7	251.4	242.0
80°	1285.5	499.7	248.3	229.4	201.2	301.7	433.7	389.7	232.6	163.4	160.3
82.5°	515.5	210.6	144.6	128.9	110.0	207.4	342.6	314.3	172.9	103.7	103.7
85°	166.6	69.1	53.4	40.9	50.3	128.9	204.3	213.7	122.6	53.4	40.9
87.5°	22.0	9.4	9.4	12.6	9.4	22.0	62.9	59.7	34.6	6.3	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)