

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: P943988

Luminaire Tested: **GALN-SB8D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51467 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 584.9
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

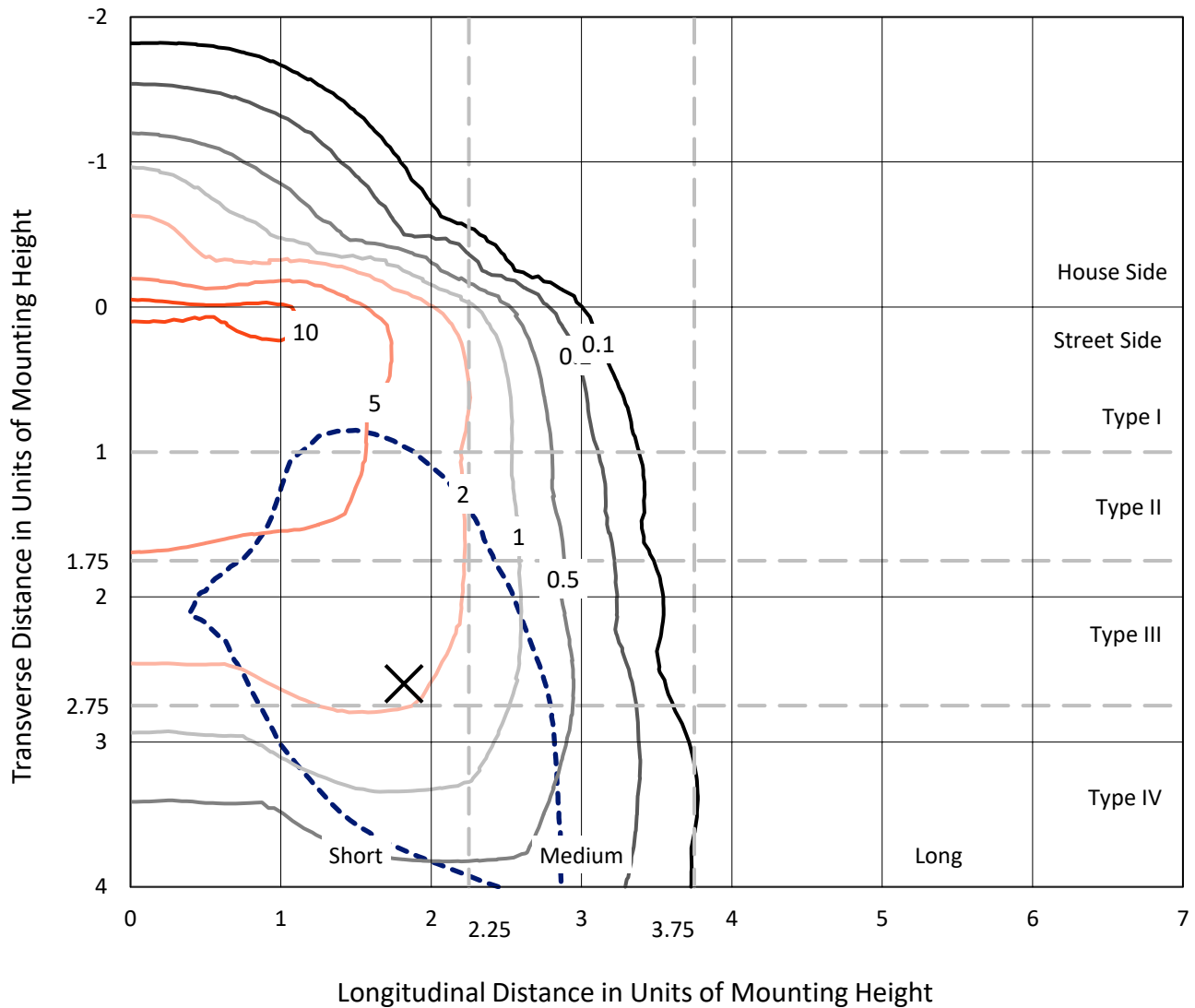


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

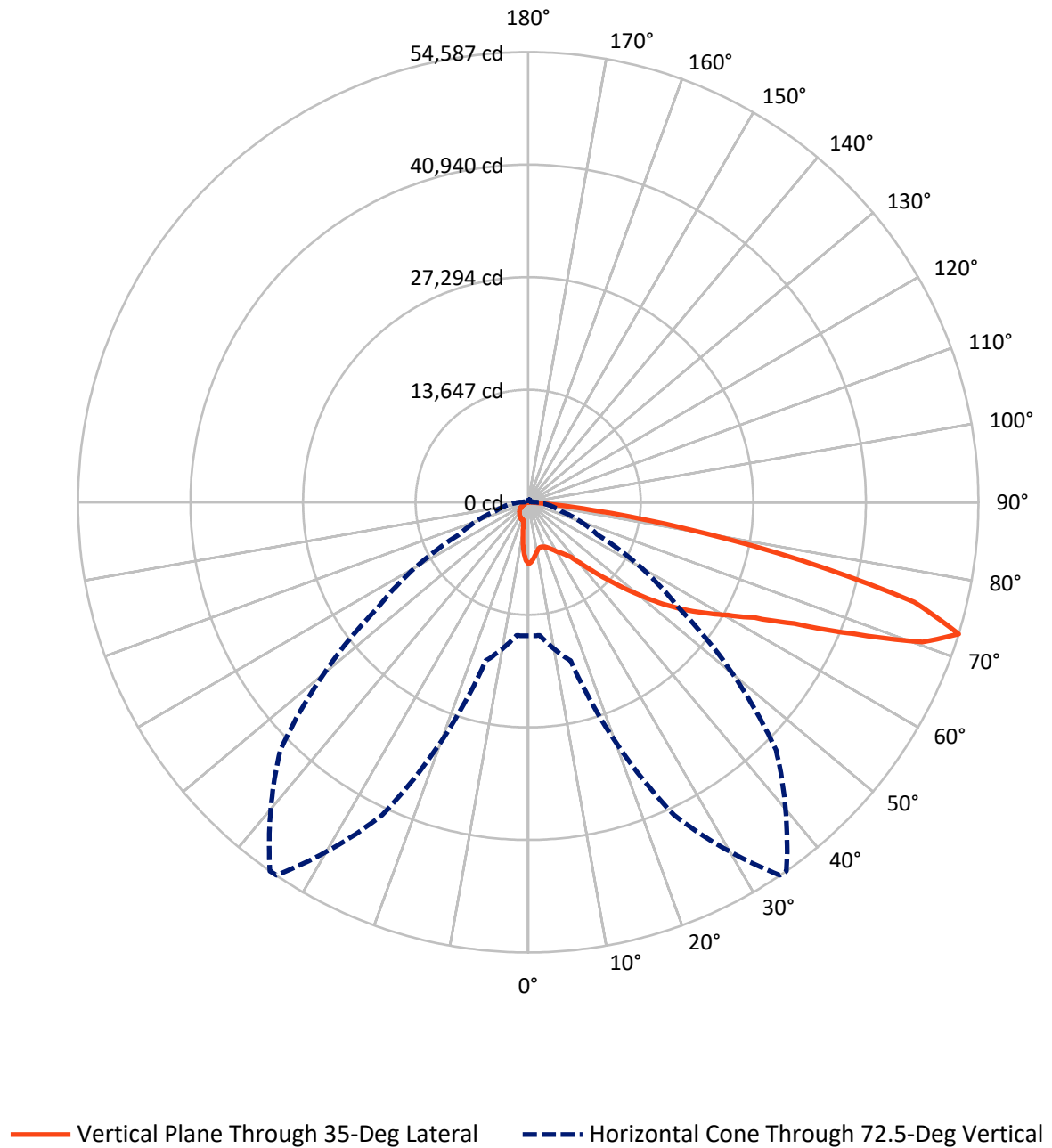


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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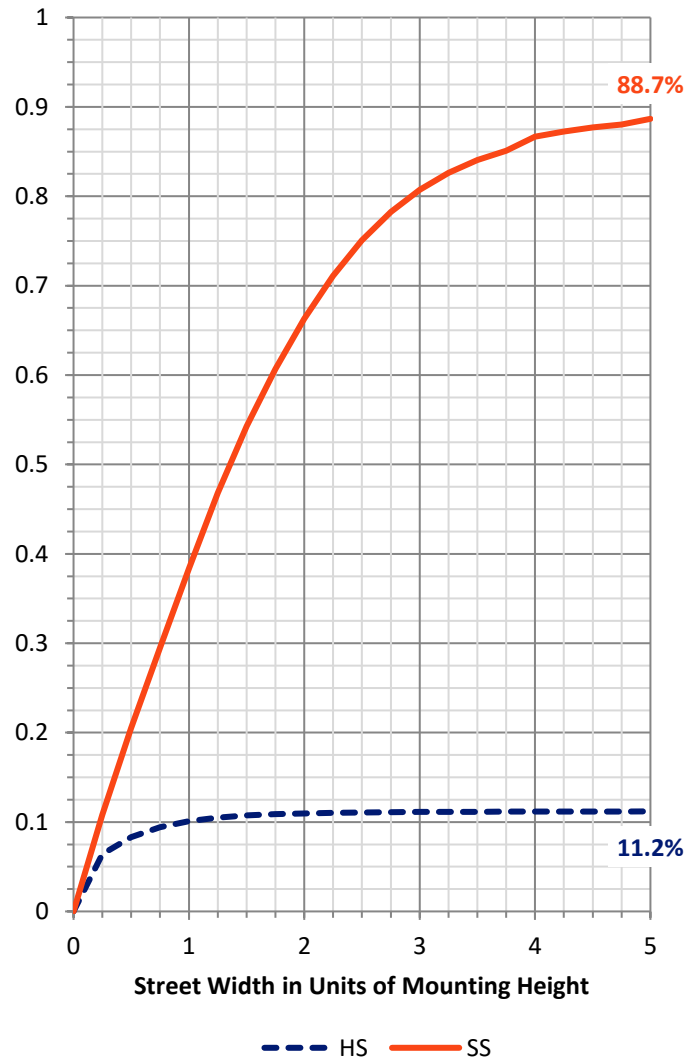
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5792.4	0.0	5792.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	45674.6	0.0	45674.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	51467.0	0.0	51467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	1.2
10°-20°	1433.9	2.8
20°-30°	2329.4	4.5
30°-40°	3886.6	7.6
40°-50°	7353.5	14.3
50°-60°	11684.6	22.7
60°-70°	14454.7	28.1
70°-80°	8985.2	17.5
80°-90°	726.1	1.4
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°	51467.0	100.0
0°-180°	51467.0	100.0

Coefficient of Utilization



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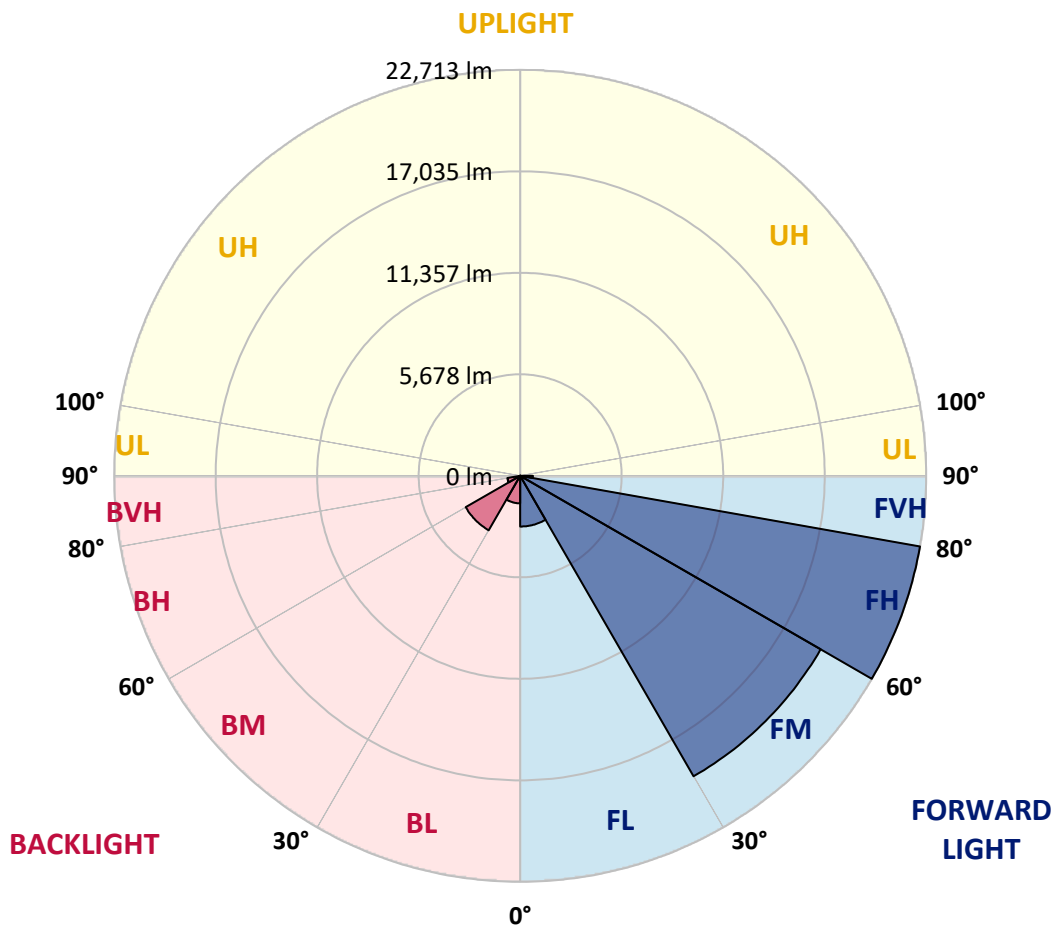
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.1	5.5			
FM	(30°-60°)	19408.2	37.7			
FH	(60°-80°)	22713.0	44.1			G5
FVH	(80°-90°)	716.3	1.4			G4/750
BL	(0°-30°)	1539.1	3.0	B3/2500		
BM	(30°-60°)	3516.5	6.8	B3/5000		
BH	(60°-80°)	726.9	1.4	B2/1000		G2/1000
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3
2.5°	7127.4	7187.8	7199.1	7217.9	7217.9	7240.6	7278.3	7331.1	7417.8	7463.1	7493.2
5°	6569.3	6614.6	6671.1	6716.4	6803.1	6814.4	6961.5	7104.8	7304.7	7455.5	7561.1
7.5°	6007.4	6060.2	6135.6	6245.0	6358.1	6392.1	6614.6	6855.9	7172.7	7455.5	7632.8
10°	5611.4	5615.2	5683.1	5792.5	5973.5	6015.0	6286.5	6629.6	7025.6	7410.3	7700.6
12.5°	5388.9	5415.3	5445.5	5528.5	5701.9	5728.3	6018.7	6422.2	6878.5	7383.9	7779.8
15°	5388.9	5407.8	5426.7	5468.1	5607.7	5630.3	5886.7	6290.2	6803.1	7395.2	7908.1
17.5°	5445.5	5475.7	5460.6	5509.6	5656.7	5671.8	5898.0	6252.5	6799.3	7466.8	8104.2
20°	5581.3	5603.9	5573.7	5603.9	5751.0	5781.1	6015.0	6324.2	6863.5	7591.3	8349.3
22.5°	5796.2	5807.5	5735.9	5758.5	5909.4	5947.1	6218.6	6527.8	7018.1	7791.2	8677.4
25°	6067.7	6090.4	5981.0	6007.4	6150.7	6196.0	6509.0	6833.3	7263.2	8066.4	9096.0
27.5°	6380.8	6392.1	6297.8	6294.0	6478.8	6542.9	6859.7	7210.4	7591.3	8413.4	9623.9
30°	6739.0	6772.9	6682.4	6667.4	6901.2	6954.0	7267.0	7674.2	8074.0	8933.8	10374.4
32.5°	7021.8	7048.2	6995.4	7033.2	7270.7	7312.2	7761.0	8330.4	8832.0	9672.9	11396.4
35°	7429.1	7444.2	7323.5	7391.4	7662.9	7768.5	8436.0	9250.6	9786.1	10600.6	12731.3
37.5°	8903.6	8903.6	8390.8	8055.1	8315.3	8409.6	9359.9	10408.3	10962.7	11845.1	14413.3
40°	10943.8	10909.9	10159.4	9473.1	9439.1	9623.9	10676.1	11867.7	12482.4	13338.5	16306.4
42.5°	13119.8	13067.0	12045.0	11366.2	11253.1	11317.2	12195.8	13666.6	14292.6	15159.9	18342.8
45°	15050.6	15035.5	14100.3	13187.6	12984.0	13187.6	14092.7	15770.9	16219.6	17132.2	20375.4
47.5°	16668.4	16668.4	15985.8	15390.0	15284.4	15405.1	16660.8	18105.2	18063.7	19232.8	22355.3
50°	18531.3	18516.2	17867.6	17611.2	17720.5	17890.2	19617.4	20564.0	19971.9	21295.6	24123.9
52.5°	19836.1	19926.6	19704.2	19662.7	20220.8	20514.9	22619.2	22969.9	21680.2	23252.8	25447.6
55°	20869.4	20975.0	21231.5	21521.8	22596.6	22981.3	25526.8	25251.5	23109.5	24949.8	26209.3
57.5°	22332.6	22181.8	22577.8	23151.0	24889.5	25353.3	28343.8	27404.8	24259.7	26326.3	26292.3
60°	24108.8	24131.5	24199.3	24923.4	27178.5	27774.4	31119.4	29441.2	24998.8	27171.0	25372.2
62.5°	26243.3	26277.2	26416.8	27529.2	30252.0	30813.9	34075.9	31108.0	25338.2	26933.4	22996.3
65°	26096.2	26239.5	27797.0	31602.1	34924.4	35478.8	37526.5	32277.1	24825.3	24761.2	18723.7
67.5°	23773.2	24007.0	26612.9	36466.8	41968.9	42587.4	41697.4	32507.1	22611.7	19255.4	12214.7
70°	20726.1	20809.1	23942.9	40841.3	50125.9	50751.9	45430.8	29976.7	17158.6	10740.2	5471.9
72.5°	16185.7	16204.5	19881.4	41855.8	54553.2	54587.1	42500.6	22253.4	9228.0	4125.6	1900.6
75°	11562.3	11449.1	13315.9	33943.9	47995.2	48379.8	31862.3	10438.5	3526.0	1949.7	946.6
77.5°	6199.7	6324.2	7534.7	20130.3	33155.8	33811.9	17384.9	3009.4	1795.1	1327.4	626.0
80°	1915.7	2021.3	3088.6	9216.6	18780.2	19176.2	6444.9	1338.8	1252.0	946.6	411.1
82.5°	603.4	626.0	1440.6	3872.9	7794.9	7975.9	1866.7	758.0	856.0	626.0	241.4
85°	173.5	177.2	641.1	1444.3	1927.0	1964.8	524.2	294.1	490.2	388.4	124.4
87.5°	18.9	60.3	241.4	241.4	169.7	165.9	56.6	64.1	139.5	49.0	22.6
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°	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3	7459.3
2.5°	7474.4	7478.1	7429.1	7346.2	7255.7	7180.2	7086.0	7010.5	6957.7	6942.6	6969.0
5°	7527.2	7500.8	7361.2	7108.6	6806.9	6546.7	6256.3	6026.3	5875.4	5811.3	5833.9
7.5°	7606.4	7530.9	7225.5	6727.7	6150.7	5637.8	5117.4	4713.9	4457.5	4329.3	4348.1
10°	7674.2	7523.4	6999.2	6177.1	5294.7	4517.8	3816.4	3329.9	3058.4	2930.2	2933.9
12.5°	7738.4	7519.6	6705.1	5524.7	4329.3	3378.9	2726.5	2485.2	2409.8	2383.4	2375.8
15°	7859.0	7530.9	6335.5	4778.0	3367.6	2553.1	2315.5	2311.7	2326.8	2319.2	2315.5
17.5°	8025.0	7542.3	5916.9	3986.1	2598.3	2251.4	2240.1	2274.0	2296.6	2285.3	2281.5
20°	8239.9	7587.5	5471.9	3201.7	2232.5	2175.9	2202.3	2232.5	2251.4	2232.5	2228.7
22.5°	8541.6	7666.7	4985.4	2571.9	2115.6	2130.7	2153.3	2187.3	2206.1	2179.7	2175.9
25°	8911.2	7791.2	4506.5	2236.3	2059.0	2077.9	2111.8	2149.5	2172.2	2145.8	2142.0
27.5°	9390.1	7991.0	4065.3	2160.9	2002.5	2013.8	2062.8	2119.4	2149.5	2115.6	2115.6
30°	10084.0	8319.1	3684.4	2194.8	1968.5	1942.1	2010.0	2089.2	2123.1	2093.0	2089.2
32.5°	11004.2	8783.0	3450.6	2247.6	1953.4	1859.2	1923.3	2025.1	2081.7	2062.8	2062.8
35°	12210.9	9488.2	3360.1	2307.9	1942.1	1772.4	1817.7	1927.0	2025.1	2044.0	2044.0
37.5°	13674.1	10468.7	3386.5	2334.3	1908.2	1700.8	1723.4	1817.7	1945.9	2006.2	2021.3
40°	15337.2	11611.3	3537.3	2307.9	1870.5	1640.4	1644.2	1715.9	1829.0	1919.5	1949.7
42.5°	17053.0	12946.3	3816.4	2209.9	1836.5	1587.6	1576.3	1625.4	1700.8	1764.9	1791.3
45°	18685.9	14319.0	4091.7	2074.1	1795.1	1534.8	1508.5	1527.3	1542.4	1568.8	1583.9
47.5°	20111.4	15284.4	4012.5	1949.7	1738.5	1474.5	1429.3	1421.7	1376.5	1372.7	1368.9
50°	21095.7	15495.6	3563.7	1825.2	1655.5	1406.6	1335.0	1289.7	1210.5	1172.8	1176.6
52.5°	21408.7	14662.2	2911.3	1700.8	1519.8	1316.1	1214.3	1142.7	1044.6	1010.7	1006.9
55°	20993.9	13029.3	2326.8	1549.9	1331.2	1195.4	1082.3	988.0	908.8	867.4	867.4
57.5°	19979.4	10951.4	1840.3	1372.7	1131.3	1059.7	946.6	852.3	784.4	742.9	735.4
60°	18297.5	8696.2	1455.7	1161.5	965.4	912.6	795.7	735.4	675.0	626.0	614.7
62.5°	15744.5	6207.3	1142.7	920.2	807.0	746.7	678.8	633.5	561.9	494.0	482.7
65°	12286.3	3797.5	882.4	675.0	648.6	618.5	577.0	535.5	448.8	380.9	369.6
67.5°	7749.7	1798.8	629.8	509.1	512.9	497.8	478.9	445.0	380.9	320.5	313.0
70°	3412.9	871.1	414.8	388.4	380.9	380.9	396.0	384.7	324.3	267.8	256.4
72.5°	1161.5	467.6	309.2	294.1	275.3	271.5	331.9	320.5	260.2	207.4	196.1
75°	607.2	313.0	226.3	211.2	165.9	199.9	264.0	248.9	184.8	135.8	124.4
77.5°	396.0	222.5	154.6	135.8	94.3	132.0	196.1	173.5	109.4	67.9	60.3
80°	248.9	147.1	90.5	64.1	45.3	71.7	105.6	75.4	41.5	15.1	11.3
82.5°	132.0	75.4	33.9	22.6	18.9	22.6	26.4	18.9	7.5	0.0	0.0
85°	52.8	26.4	11.3	7.5	3.8	0.0	7.5	3.8	0.0	0.0	0.0
87.5°	18.9	3.8	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)