

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: P957338

Luminaire Tested: **GALN-SB9D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957338
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-SB9D-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 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: 64828 lumens
Efficiency: N/A
Efficacy: 98.5 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): 658
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



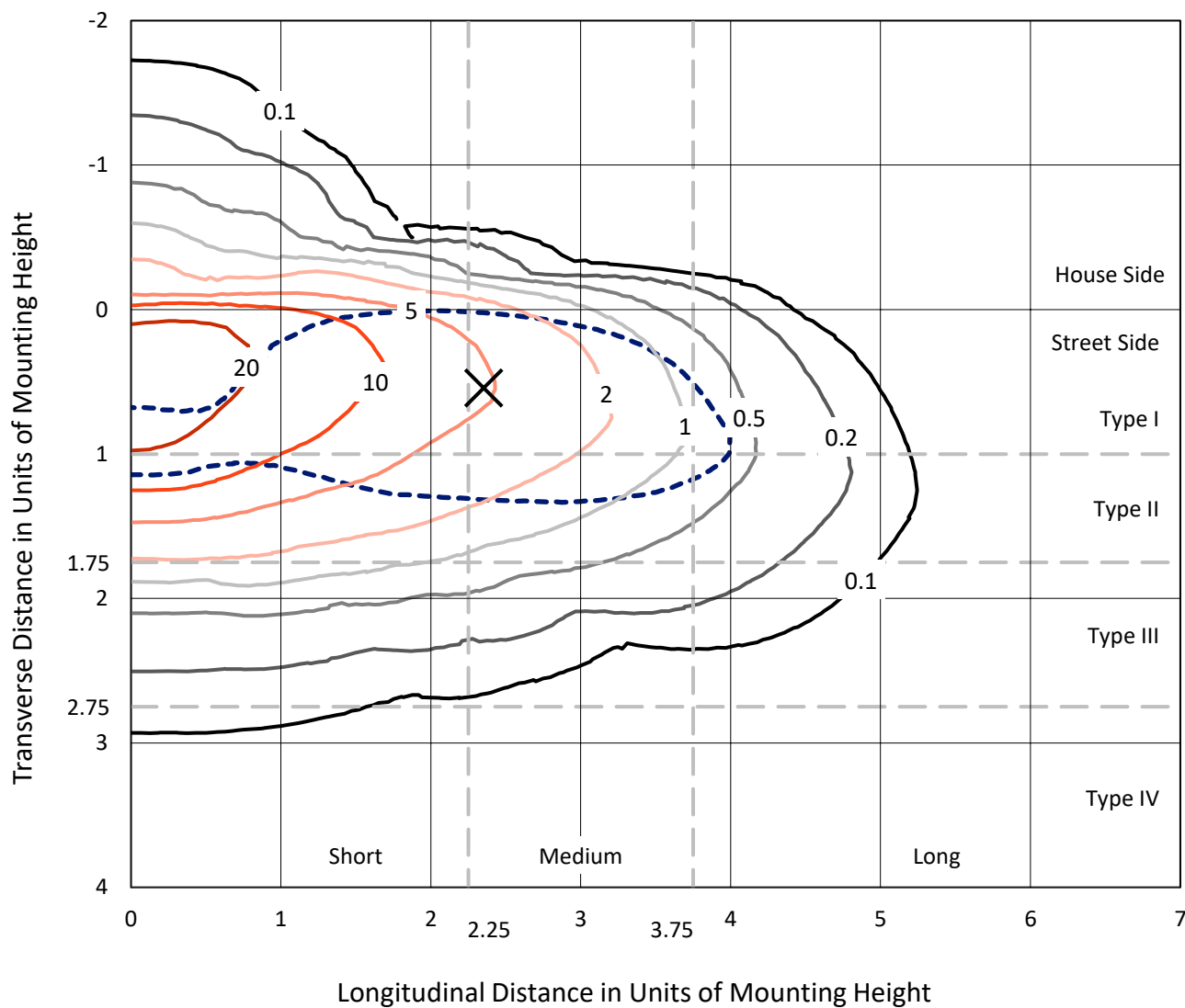
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

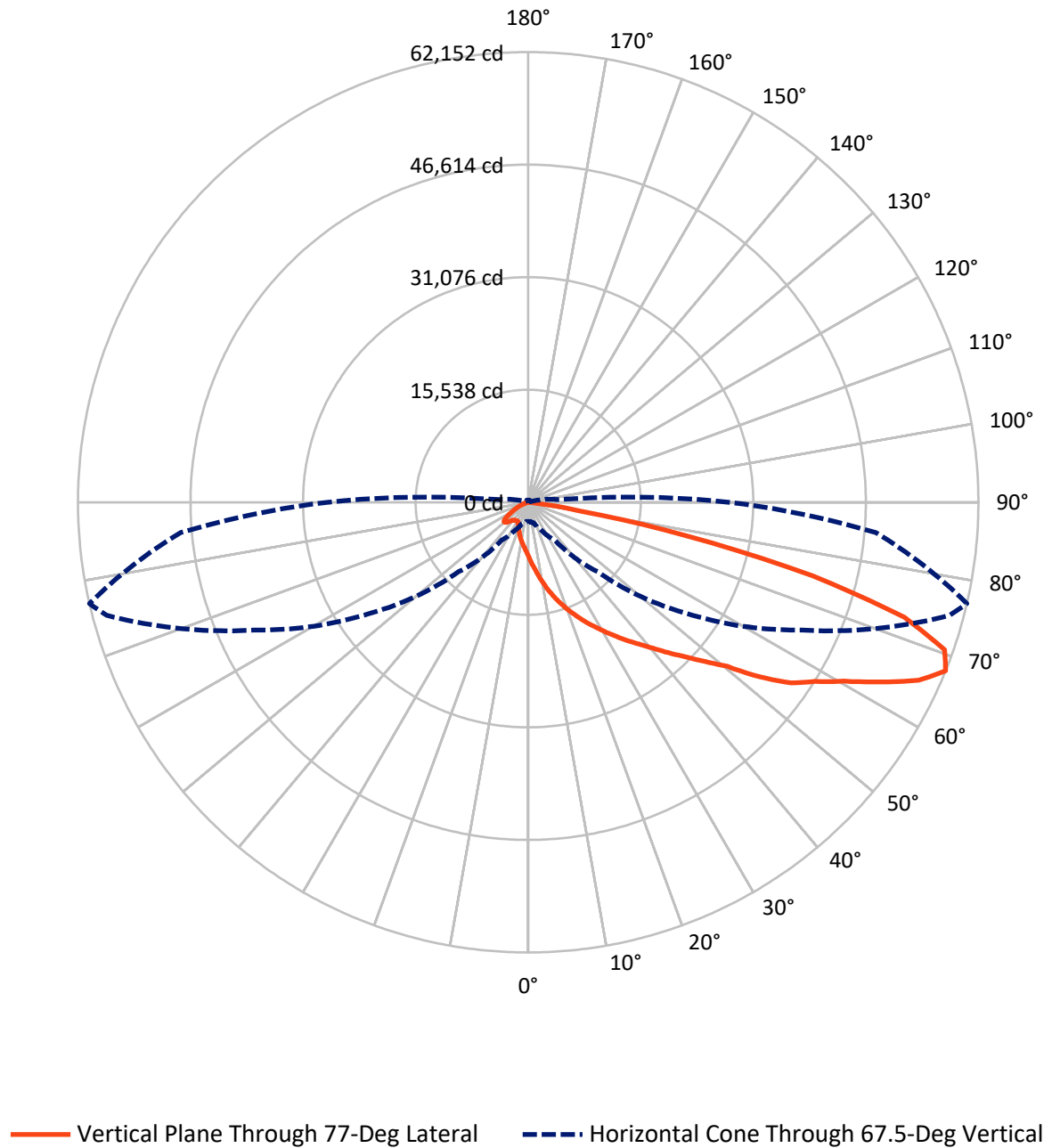
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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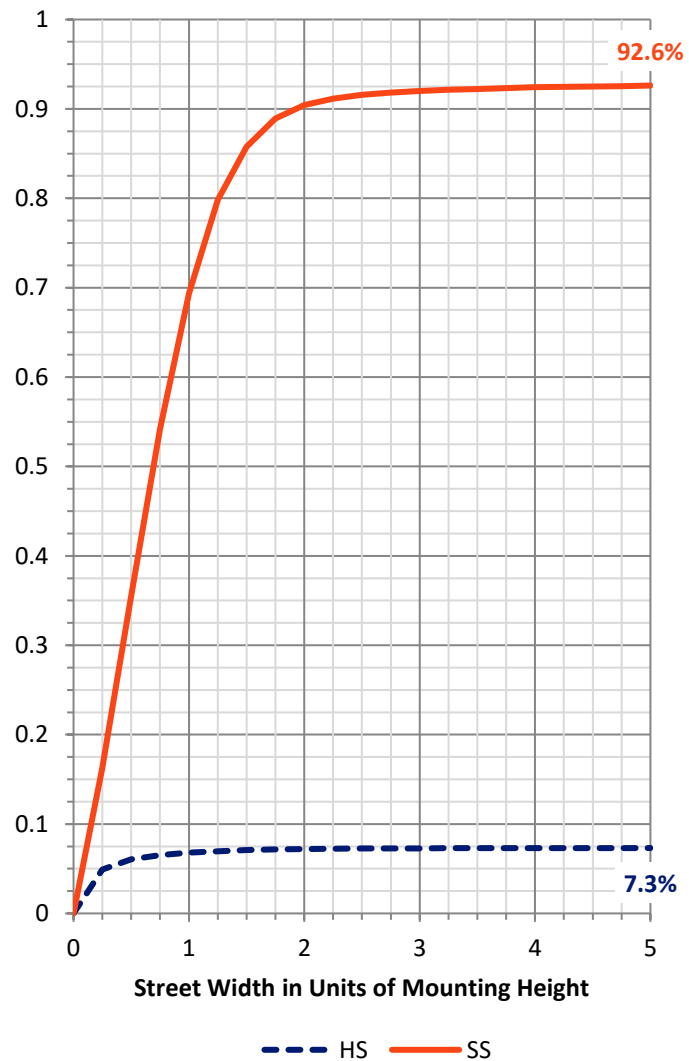
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4769.4	0.0	4769.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	60058.6	0.0	60058.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	64828.0	0.0	64828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.0	1.2
10°-20°	2672.0	4.1
20°-30°	5156.2	8.0
30°-40°	8951.4	13.8
40°-50°	12996.9	20.0
50°-60°	14925.4	23.0
60°-70°	12958.0	20.0
70°-80°	6103.4	9.4
80°-90°	301.8	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°	64828.0	100.0
0°-180°	64828.0	100.0

Coefficient of Utilization



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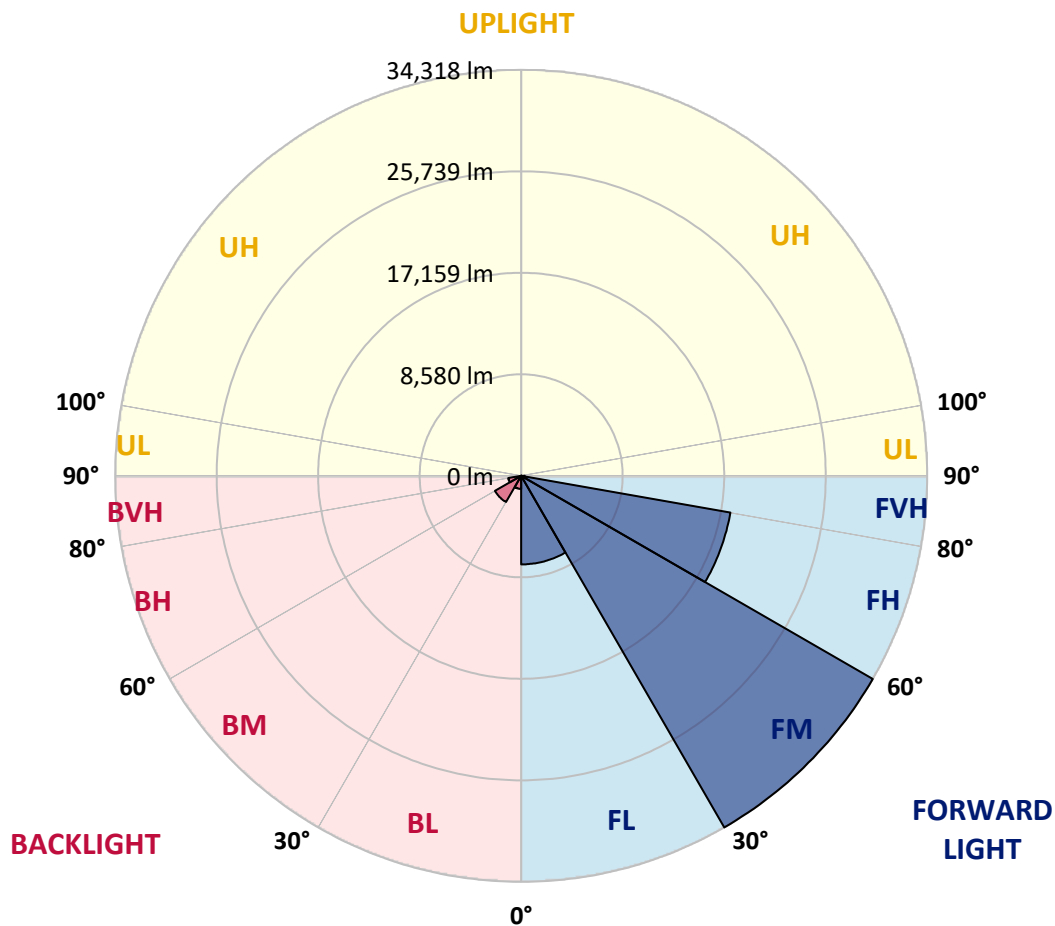
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7486.9	11.5			
FM	(30°-60°)	34318.2	52.9			
FH	(60°-80°)	17957.2	27.7			G5
FVH	(80°-90°)	296.3	0.5			G3/500
BL	(0°-30°)	1104.2	1.7	B3/2500		
BM	(30°-60°)	2555.5	3.9	B3/5000		
BH	(60°-80°)	1104.2	1.7	B3/2500		G3/2500
BVH	(80°-90°)	5.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	10349.9	10414.3	10321.8	10144.6	9878.9	9705.8	9283.1	8884.6	8441.8	8300.9	7858.1
5°	12616.4	12672.7	12568.1	12374.8	12020.6	11682.4	11126.9	10293.6	9428.1	9150.3	8365.3
7.5°	14295.1	14327.3	14287.0	14109.9	13771.7	13389.3	12769.3	11783.1	10498.9	10192.9	8989.3
10°	15502.8	15607.4	15595.3	15526.9	15301.5	14991.5	14331.3	13208.1	11698.5	11304.0	9693.8
12.5°	16303.9	16420.6	16489.0	16642.0	16629.9	16432.7	15853.0	14665.4	12894.1	12431.2	10486.8
15°	16537.3	16662.1	16923.8	17278.1	17592.1	17692.7	17286.1	16094.5	14210.5	13618.8	11300.0
17.5°	16404.5	16597.7	16911.7	17471.3	18159.7	18614.6	18570.3	17475.3	15406.1	14729.8	12097.1
20°	16698.4	16883.6	17129.1	17600.1	18401.2	19226.5	19556.6	18795.7	16593.7	15885.2	12934.4
22.5°	18324.7	18292.5	18316.7	18393.2	18872.2	19689.4	20369.8	19995.4	17769.2	17044.6	13820.0
25°	20901.1	20756.2	20510.7	20096.0	19975.2	20369.8	21078.3	21058.1	19009.1	18232.1	14725.8
27.5°	23856.0	23831.8	23256.1	22257.8	21694.2	21541.2	21879.4	22092.7	20236.9	19407.6	15635.6
30°	26686.0	26750.4	25973.5	24862.4	23827.8	23228.0	22922.0	23075.0	21484.9	20675.7	16573.6
32.5°	29149.7	29218.1	28372.7	27072.5	25792.3	25067.7	24423.6	24045.2	22845.5	21963.9	17604.1
35°	31230.9	31299.4	30329.2	28892.0	27527.4	26871.2	26142.5	25107.9	24214.3	23393.0	18751.5
37.5°	33090.8	33070.7	31770.4	30321.2	28980.6	28461.3	28078.9	26416.3	25623.2	24830.2	20023.6
40°	34189.8	34274.3	33163.3	31565.1	30264.8	29886.4	29862.2	28038.6	27249.6	26480.7	21416.4
42.5°	34511.8	34660.8	33855.7	32543.3	31363.8	30953.2	31585.2	29793.8	29141.6	28392.9	22990.5
45°	33932.2	34077.1	33710.7	32800.9	32112.6	31846.9	33066.6	31613.4	31162.5	30421.8	24765.8
47.5°	32241.4	32422.5	32511.1	32317.9	32309.8	32579.5	34395.1	33529.6	33561.8	32805.0	26822.9
50°	28968.5	29274.5	30087.7	30772.0	31830.8	33159.2	35687.3	35606.8	36267.0	35614.9	29503.9
52.5°	23018.6	23453.4	26255.3	28127.2	30506.3	33050.5	37108.4	38940.1	41013.3	40059.2	33284.0
55°	18497.8	18497.8	20776.3	24278.7	27921.9	32334.0	37728.3	41105.9	44245.9	44020.4	35945.0
57.5°	15080.1	15261.2	16714.5	19810.2	24182.0	30627.1	38110.8	42466.5	46850.4	46685.4	38545.5
60°	9307.3	9697.8	12443.3	15498.7	19926.9	27587.7	37869.2	43843.3	50010.6	50143.4	41677.5
62.5°	5241.4	5386.3	6610.1	11151.0	15494.7	23501.7	36021.5	44612.2	54052.3	54615.9	44906.1
65°	3619.1	3691.5	4162.5	6940.2	10740.4	18711.2	32410.5	44133.1	58102.1	59241.4	47643.5
67.5°	2628.7	2665.0	2958.8	4239.0	6372.6	13566.4	26750.4	41717.8	60247.8	62151.9	48166.8
70°	2020.9	2045.0	2258.4	2785.7	3764.0	8373.3	19427.8	36915.2	58693.9	60968.4	45485.8
72.5°	1642.5	1666.6	1831.7	2061.1	2495.9	4951.5	11775.0	29979.0	51834.2	54289.8	38722.7
75°	1384.8	1417.0	1566.0	1714.9	1956.5	3180.3	5523.2	20877.0	38980.3	40590.6	26927.5
77.5°	768.9	708.5	1272.1	1421.1	1650.5	2012.8	2584.5	12286.3	21831.1	22277.9	11948.1
80°	479.1	495.2	1010.4	1143.3	1268.1	1014.5	1183.5	4730.1	7568.2	7189.8	2314.7
82.5°	28.2	64.4	776.9	825.3	869.5	434.8	446.8	1606.2	1823.6	1674.7	410.6
85°	0.0	0.0	354.3	285.8	301.9	124.8	128.8	374.4	245.6	265.7	80.5
87.5°	0.0	0.0	0.0	8.1	0.0	12.1	24.2	32.2	12.1	16.1	28.2
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°	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6	7475.6
2.5°	7576.3	7294.5	6722.8	6163.3	5708.4	5285.7	4983.7	4697.9	4553.0	4545.0	4536.9
5°	7805.7	7214.0	6070.7	5060.2	4247.1	3594.9	3172.2	2870.3	2717.3	2665.0	2656.9
7.5°	8127.8	7238.1	5499.0	4094.1	3136.0	2576.4	2334.9	2238.3	2206.1	2169.8	2161.8
10°	8534.4	7294.5	4987.8	3297.0	2471.7	2190.0	2093.3	2053.1	2028.9	2004.8	1996.7
12.5°	8989.3	7346.8	4480.5	2737.4	2173.8	2028.9	1960.5	1912.2	1880.0	1851.8	1843.7
15°	9432.1	7379.0	3953.2	2347.0	2020.9	1904.1	1831.7	1779.3	1735.1	1702.8	1698.8
17.5°	9870.9	7423.3	3458.0	2113.5	1896.1	1779.3	1706.9	1642.5	1606.2	1570.0	1566.0
20°	10358.0	7415.2	2991.1	1948.4	1771.3	1654.5	1578.1	1517.7	1481.4	1441.2	1437.2
22.5°	10808.9	7375.0	2580.4	1807.5	1642.5	1529.7	1445.2	1384.8	1348.6	1316.4	1312.4
25°	11328.2	7342.8	2238.3	1678.7	1521.7	1409.0	1316.4	1260.0	1219.8	1191.6	1187.6
27.5°	11827.3	7294.5	1988.7	1561.9	1404.9	1296.3	1207.7	1143.3	1107.1	1086.9	1086.9
30°	12318.5	7282.4	1896.1	1449.2	1300.3	1191.6	1103.0	1042.6	1014.5	1006.4	1002.4
32.5°	12910.2	7314.6	1936.3	1409.0	1203.7	1095.0	1010.4	966.2	938.0	938.0	938.0
35°	13542.3	7306.5	1996.7	1445.2	1139.3	998.4	933.9	905.8	877.6	877.6	877.6
37.5°	14335.3	7318.6	2045.0	1505.6	1115.1	917.8	881.6	845.4	829.3	829.3	829.3
40°	15518.9	7717.2	2020.9	1557.9	1107.1	861.5	789.0	776.9	764.9	764.9	764.9
42.5°	16968.1	8582.7	2053.1	1561.9	1103.0	821.2	724.6	748.8	720.6	716.6	712.5
45°	18554.2	9528.7	2258.4	1477.4	1099.0	801.1	692.4	720.6	676.3	676.3	676.3
47.5°	20128.2	10466.7	2467.7	1356.6	1086.9	797.1	664.2	648.1	636.1	640.1	640.1
50°	22298.0	11231.5	2548.2	1191.6	1058.7	789.0	611.9	615.9	607.9	615.9	615.9
52.5°	24661.1	11392.6	2451.6	1006.4	978.2	764.9	575.7	591.8	587.7	595.8	595.8
55°	26134.5	11219.5	2024.9	837.3	853.4	668.3	539.4	571.6	571.6	571.6	571.6
57.5°	27656.2	10482.8	1437.2	680.3	708.5	547.5	507.2	551.5	547.5	543.5	543.5
60°	28751.2	9291.2	946.0	559.6	563.6	450.9	471.0	519.3	515.3	495.2	495.2
62.5°	29568.4	7974.8	607.9	475.0	430.7	406.6	430.7	471.0	454.9	410.6	402.6
65°	29475.8	6151.2	467.0	406.6	354.3	354.3	374.4	410.6	362.3	289.8	281.8
67.5°	27756.8	4162.5	386.5	342.2	297.9	293.9	310.0	342.2	310.0	245.6	237.5
70°	24685.3	2721.3	310.0	265.7	237.5	217.4	249.6	293.9	261.7	197.3	189.2
72.5°	20035.6	1658.6	233.5	193.2	173.1	140.9	197.3	241.5	209.3	144.9	136.9
75°	12962.6	845.4	161.0	124.8	92.6	84.5	144.9	181.2	144.9	88.6	76.5
77.5°	4959.6	354.3	88.6	56.4	48.3	40.3	80.5	108.7	60.4	20.1	16.1
80°	954.1	148.9	44.3	28.2	24.2	16.1	12.1	8.1	0.0	0.0	0.0
82.5°	165.1	48.3	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	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)