

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: P957012

Luminaire Tested: **GALN-SB9C-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58160 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 449.8
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

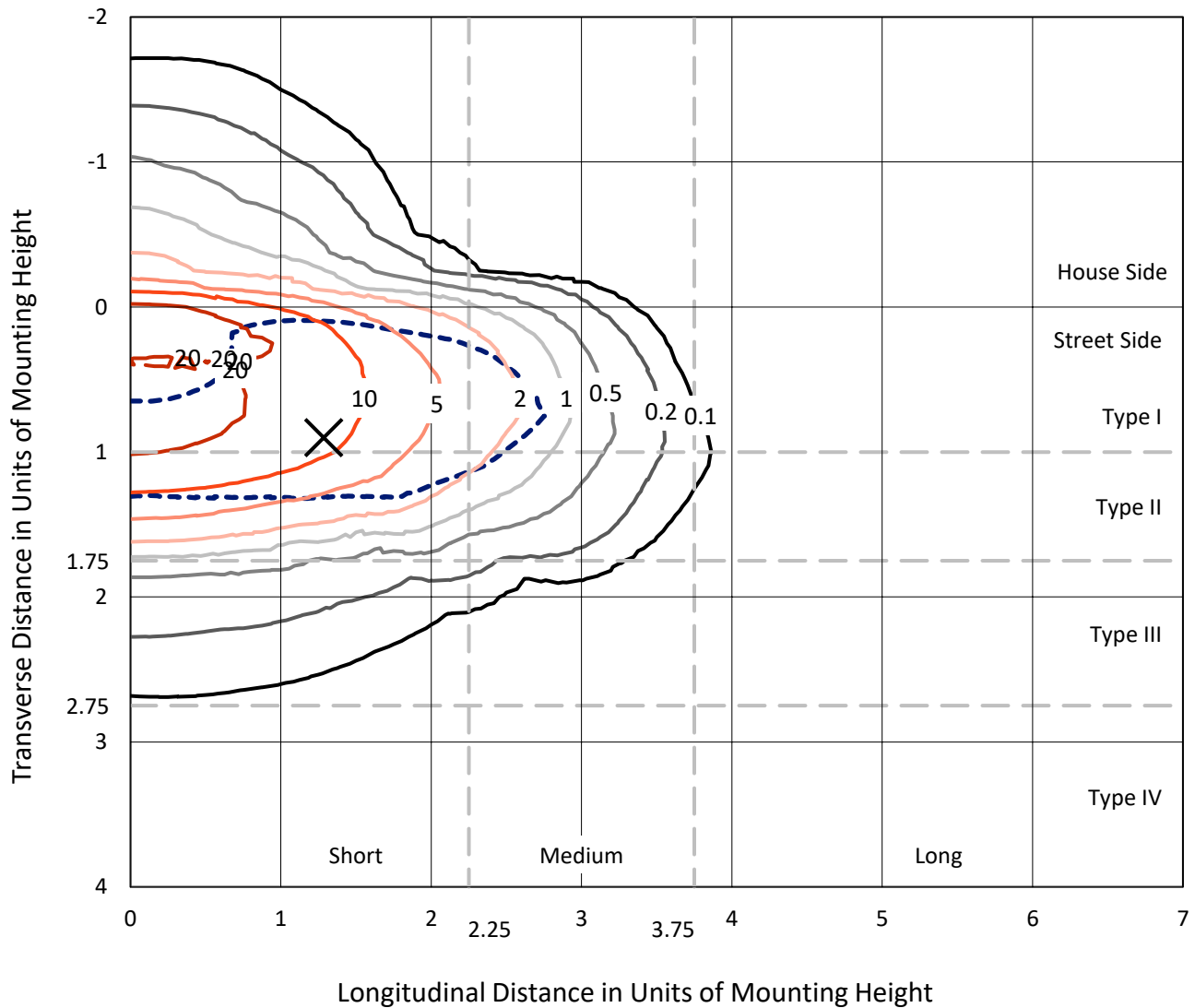


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Iso-Footcandle Lines of Horizontal Illumination

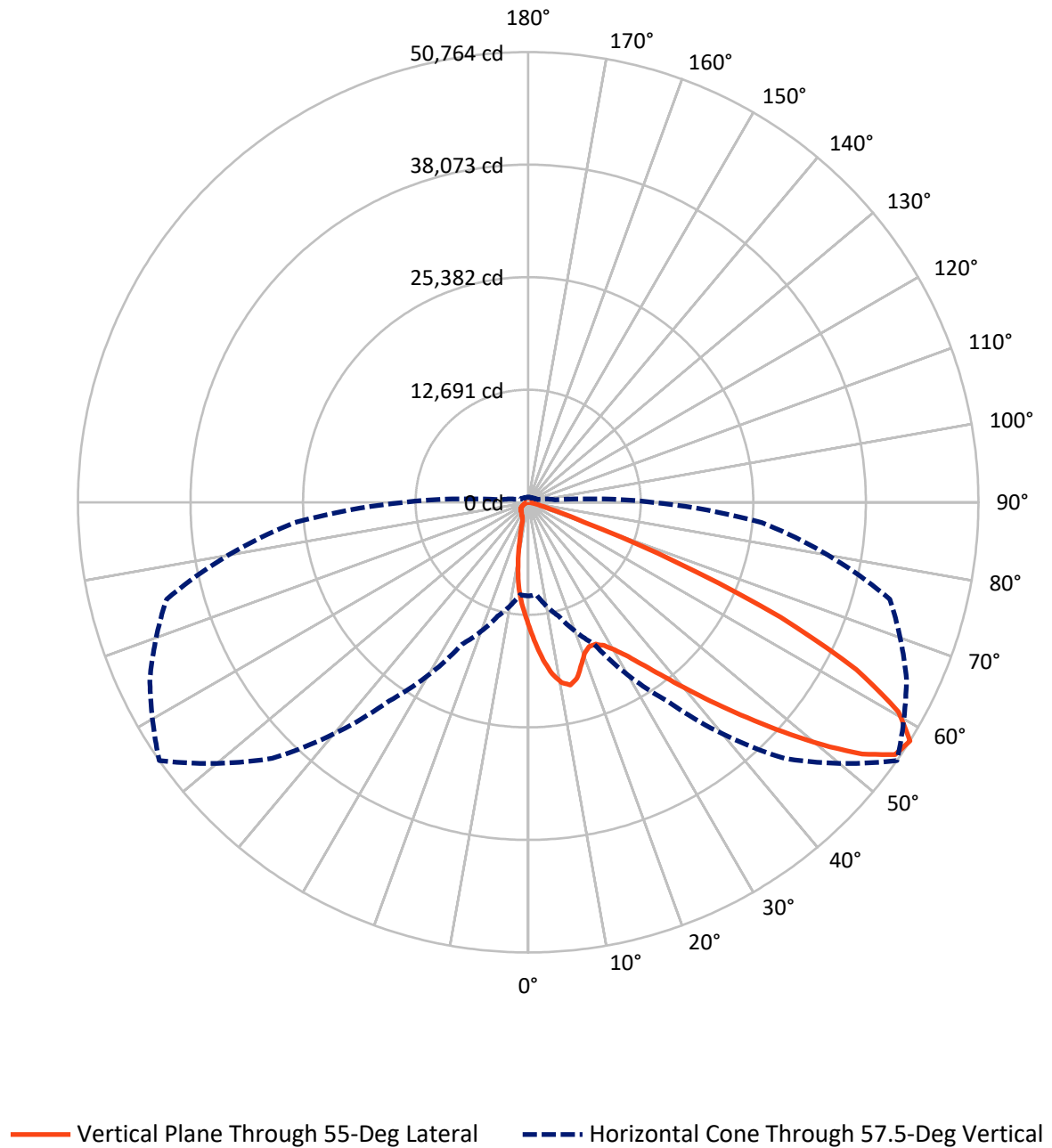
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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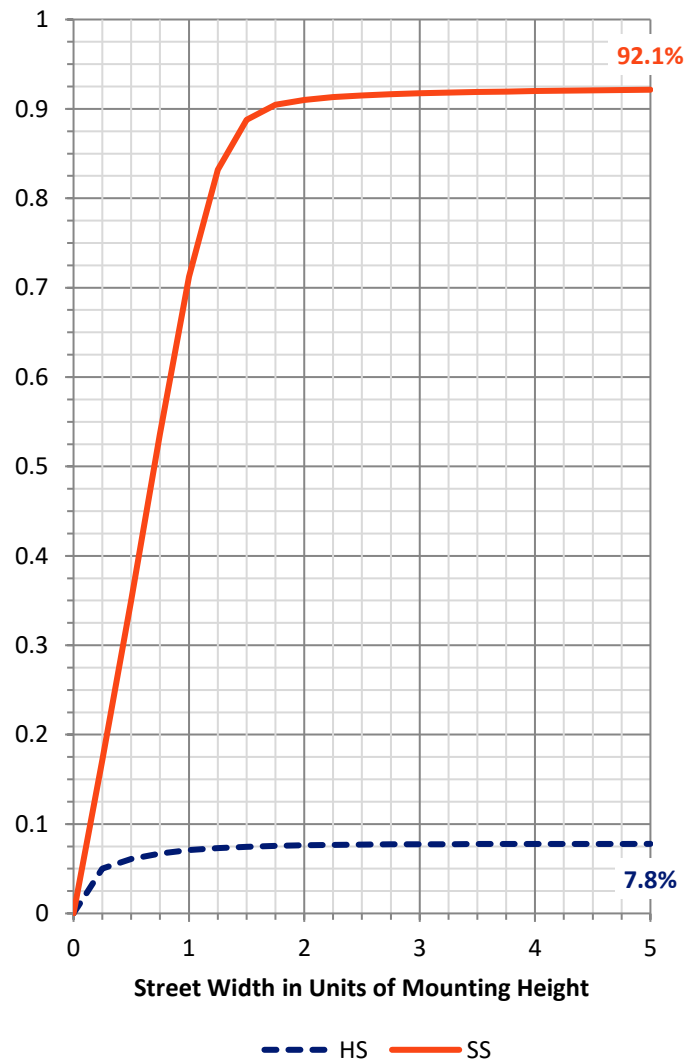
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4542.1	0.0	4542.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	53617.9	0.0	53617.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	58160.0	0.0	58160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1304.0	2.2
10°-20°	3149.9	5.4
20°-30°	5039.8	8.7
30°-40°	8530.1	14.7
40°-50°	14004.7	24.1
50°-60°	15392.1	26.5
60°-70°	8828.9	15.2
70°-80°	1804.0	3.1
80°-90°	106.4	0.2
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°	58160.0	100.0
0°-180°	58160.0	100.0

Coefficient of Utilization



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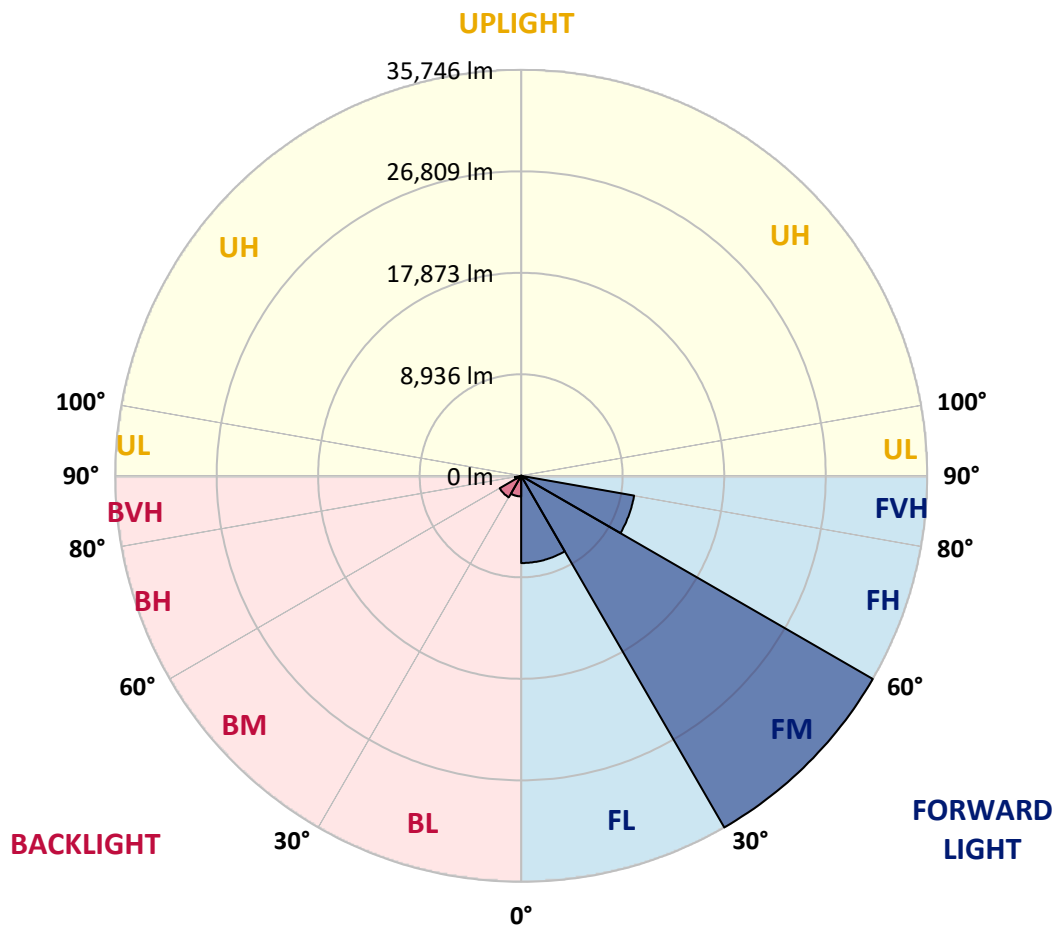
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7680.4	13.2			
FM	(30°-60°)	35745.6	61.5			
FH	(60°-80°)	10092.8	17.4			G4/12000
FVH	(80°-90°)	99.2	0.2			G1/100
BL	(0°-30°)	1813.3	3.1	B3/2500		
BM	(30°-60°)	2181.4	3.8	B2/2500		
BH	(60°-80°)	540.2	0.9	B2/1000		G2/1000
BVH	(80°-90°)	7.2	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1
2.5°	17389.8	17171.0	17138.8	17095.7	16679.7	16367.7	15915.8	15420.9	14865.1	14298.4	14047.4
5°	20090.3	19918.1	19885.8	19685.0	19211.6	18680.9	17877.5	16862.6	15826.2	14606.9	14083.3
7.5°	20613.9	20581.6	20728.6	20721.4	20656.9	20237.3	19559.5	18350.9	16794.5	14987.0	14176.5
10°	18279.2	18361.7	18799.2	19182.9	20219.4	20821.9	20674.8	19677.8	17791.5	15420.9	14280.5
12.5°	16152.5	16055.7	16367.7	16801.7	18006.6	19799.8	21137.5	20786.0	18931.9	15912.3	14434.7
15°	14818.5	14779.0	14954.7	15155.6	16073.6	17881.1	20599.5	21686.1	20029.3	16493.2	14667.8
17.5°	14391.7	14359.4	14413.2	14463.4	15058.7	16457.4	19319.2	22238.4	21080.1	17156.7	14926.0
20°	14739.6	14696.5	14689.3	14649.9	14897.3	15851.3	18160.8	22277.9	22023.3	17759.2	15148.4
22.5°	15754.5	15704.3	15528.5	15370.7	15392.3	15933.8	17644.4	21883.4	22733.3	18322.2	15288.3
25°	17594.2	17511.7	17145.9	16615.2	16278.1	16507.6	17723.3	21363.4	23411.1	18763.3	15220.1
27.5°	19896.6	19789.0	19319.2	18530.2	17759.2	17479.5	18293.5	21004.8	23974.2	19100.5	15073.1
30°	22152.4	22012.5	21549.9	20936.6	19810.5	18928.3	19322.8	21162.6	24644.8	19451.9	14879.4
32.5°	24587.4	24454.7	23841.5	23081.2	22148.8	20961.7	20732.2	21933.6	25466.1	19943.2	14743.1
35°	27668.0	27460.0	26588.6	25552.1	24562.3	23360.9	22640.1	23264.1	26559.9	20692.8	14818.5
37.5°	31175.4	30895.7	29956.1	28525.2	27234.1	25889.3	24964.0	25093.1	28162.9	21696.9	15051.6
40°	34481.9	34227.3	33359.4	32011.0	30390.0	28758.3	27772.0	27485.1	30375.7	22919.8	15460.4
42.5°	36465.2	36235.6	35869.8	35299.6	33933.2	32269.2	31024.8	30404.4	32993.6	24383.0	15958.9
45°	36576.3	36375.5	36866.8	37530.3	37261.3	36153.1	34636.2	33499.3	35622.4	25756.6	16475.3
47.5°	34797.5	34661.3	36153.1	38469.9	39624.7	40090.9	38692.2	36336.0	37792.1	26742.8	16686.9
50°	29948.9	29898.7	32968.5	37221.9	40524.8	43540.9	42970.6	38975.5	39474.0	27252.0	16486.1
52.5°	25968.2	25785.3	27574.8	33226.8	39215.8	45355.5	47152.2	41564.8	40650.3	27348.9	16016.3
55°	19695.8	19534.4	21779.4	26542.0	34994.8	44710.0	50211.3	44236.6	41493.1	27101.4	15173.5
57.5°	10565.1	10464.7	13301.5	17665.9	27356.0	40836.8	50763.6	47062.6	42203.2	26445.1	13993.6
60°	4113.4	4095.5	5157.1	8571.2	16625.9	33223.2	47977.1	48758.9	42647.9	25638.2	13007.4
62.5°	2488.9	2542.7	2714.8	3848.1	7344.7	20639.0	41554.1	46829.5	42945.5	24899.4	12193.3
65°	2058.5	2062.1	2083.6	2643.1	3518.1	8635.7	31283.0	40481.8	42210.3	23583.3	11038.5
67.5°	1764.4	1796.7	1879.2	2098.0	2481.7	3787.1	18010.2	31358.3	37738.3	20520.6	9238.2
70°	1391.5	1434.5	1538.5	1725.0	1915.1	2370.5	6656.1	20864.9	28830.0	15467.6	6986.0
72.5°	1172.7	1169.1	1222.9	1402.2	1520.6	1667.6	2560.6	11691.2	16755.0	7384.1	3457.2
75°	907.3	943.2	1011.3	1172.7	1244.4	1208.6	1387.9	4271.2	6003.4	2237.8	1176.3
77.5°	710.1	738.8	799.7	957.5	1029.3	857.1	799.7	1527.7	1929.4	803.3	530.8
80°	319.2	344.3	545.1	706.5	839.2	591.7	433.9	781.8	857.1	365.8	269.0
82.5°	57.4	96.8	319.2	373.0	430.4	383.7	225.9	405.2	419.6	147.0	93.2
85°	3.6	7.2	111.2	136.3	172.1	125.5	68.1	161.4	139.9	50.2	35.9
87.5°	0.0	0.0	0.0	3.6	3.6	17.9	21.5	28.7	21.5	17.9	14.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1	14015.1
2.5°	13789.2	13279.9	12785.0	12379.8	12143.1	11741.4	11476.1	11433.0	11321.8	11418.7
5°	13523.8	12612.9	11691.2	10866.4	10188.6	9313.5	8660.8	8384.7	8144.4	8226.9
7.5°	13398.3	11960.2	10525.7	9116.3	7667.4	6268.8	5228.8	4794.8	4464.9	4511.5
10°	13229.7	11282.4	9033.8	6882.0	4941.9	3561.2	2843.9	2578.5	2431.5	2435.1
12.5°	13100.6	10471.9	7301.6	4665.7	3008.9	2273.7	2051.3	1986.8	1943.8	1947.3
15°	13036.1	9517.9	5591.0	3109.3	2151.8	1925.8	1872.0	1843.3	1814.7	1811.1
17.5°	12928.5	8456.4	4091.9	2270.1	1882.8	1803.9	1757.3	1725.0	1689.1	1682.0
20°	12767.1	7251.4	2990.9	1918.7	1764.4	1703.5	1638.9	1595.9	1552.9	1545.7
22.5°	12469.4	5978.3	2298.8	1775.2	1678.4	1610.2	1531.3	1481.1	1438.1	1430.9
25°	11917.2	4784.1	1936.6	1685.5	1603.1	1520.6	1434.5	1366.4	1326.9	1319.7
27.5°	11217.8	3758.4	1757.3	1603.1	1506.2	1430.9	1334.1	1269.5	1233.7	1226.5
30°	10393.0	2894.1	1653.3	1509.8	1391.5	1326.9	1240.8	1187.1	1165.5	1165.5
32.5°	9503.6	2313.1	1610.2	1416.6	1291.1	1219.3	1151.2	1129.7	1122.5	1118.9
35°	8668.0	2008.3	1588.7	1341.3	1201.4	1133.3	1104.6	1108.2	1122.5	1122.5
37.5°	7925.6	1911.5	1578.0	1287.5	1122.5	1061.5	1079.5	1111.7	1097.4	1097.4
40°	7255.0	1922.2	1570.8	1248.0	1057.9	1022.1	1057.9	1032.8	997.0	993.4
42.5°	6742.2	2011.9	1556.4	1215.7	1018.5	993.4	979.1	939.6	936.0	943.2
45°	6369.2	2090.8	1552.9	1201.4	975.5	928.8	910.9	871.5	943.2	961.1
47.5°	5928.1	2090.8	1552.9	1151.2	903.7	885.8	857.1	814.1	885.8	903.7
50°	5357.9	1958.1	1491.9	1093.8	846.4	835.6	785.4	731.6	717.3	728.0
52.5°	4637.0	1717.8	1337.7	1014.9	789.0	767.5	706.5	667.0	656.3	656.3
55°	3815.8	1438.1	1129.7	900.2	728.0	688.6	645.5	627.6	616.8	609.7
57.5°	3102.1	1179.9	907.3	799.7	670.6	620.4	606.1	584.6	566.6	555.9
60°	2546.2	928.8	749.5	710.1	613.3	566.6	563.0	534.4	487.7	480.6
62.5°	1965.3	681.4	631.2	616.8	555.9	516.4	509.2	451.9	380.1	365.8
65°	1387.9	530.8	509.2	541.5	494.9	459.0	441.1	355.0	279.7	269.0
67.5°	975.5	444.7	401.7	473.4	430.4	383.7	373.0	301.2	233.1	225.9
70°	695.7	362.2	329.9	405.2	344.3	337.1	315.6	251.0	190.1	182.9
72.5°	491.3	276.1	254.6	351.5	236.7	290.5	258.2	193.7	143.5	136.3
75°	362.2	197.2	179.3	204.4	172.1	218.8	182.9	129.1	89.7	86.1
77.5°	265.4	125.5	107.6	100.4	100.4	136.3	100.4	53.8	39.4	35.9
80°	186.5	57.4	50.2	43.0	39.4	32.3	14.3	7.2	3.6	3.6
82.5°	111.2	25.1	25.1	17.9	10.8	0.0	0.0	0.0	0.0	0.0
85°	25.1	10.8	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	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

(END OF REPORT)