

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: P955899

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955899
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-SB8D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA 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: 57957 lumens
Efficiency: N/A
Efficacy: 99.1 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): 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

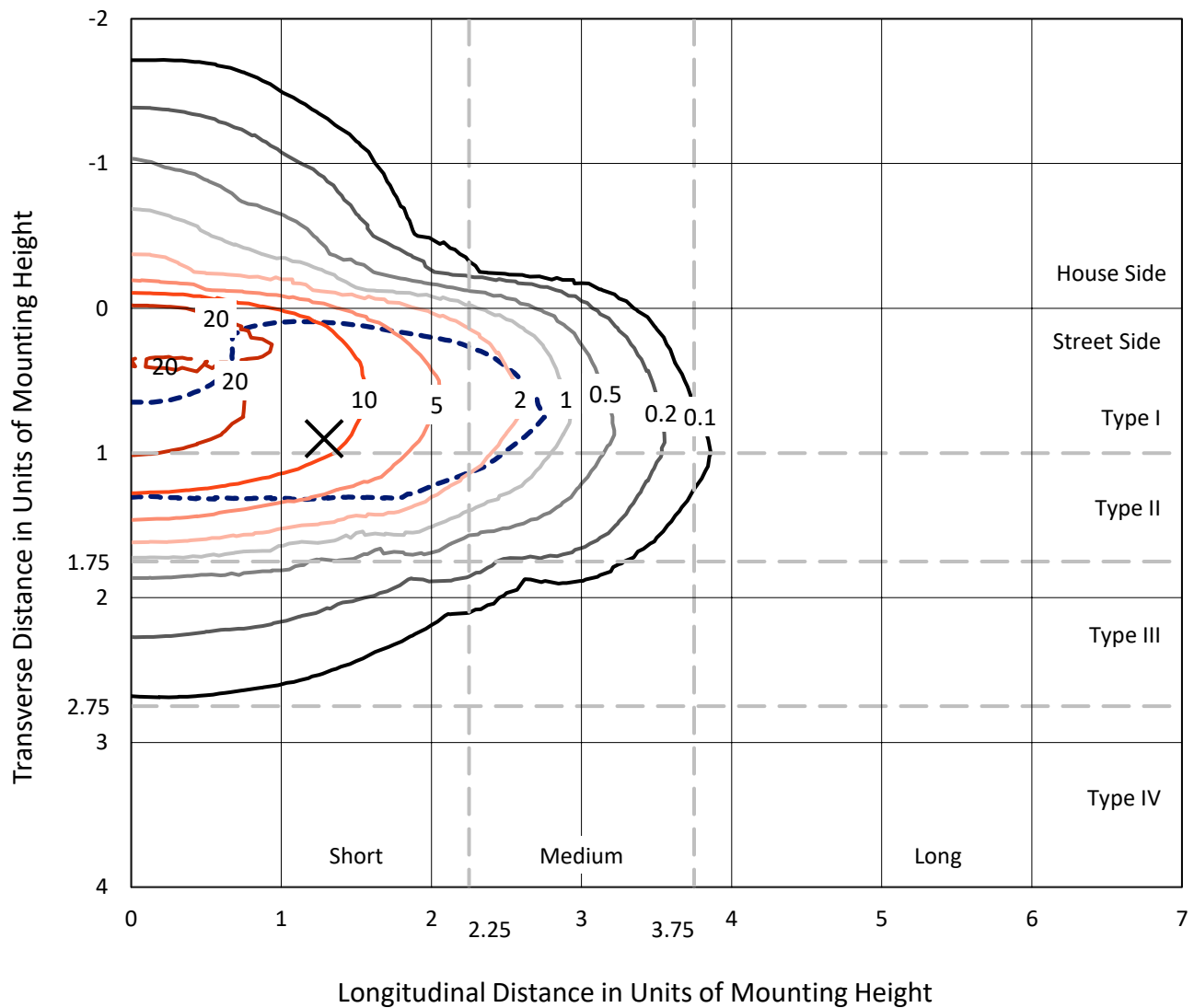


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Iso-Footcandle Lines of Horizontal Illumination

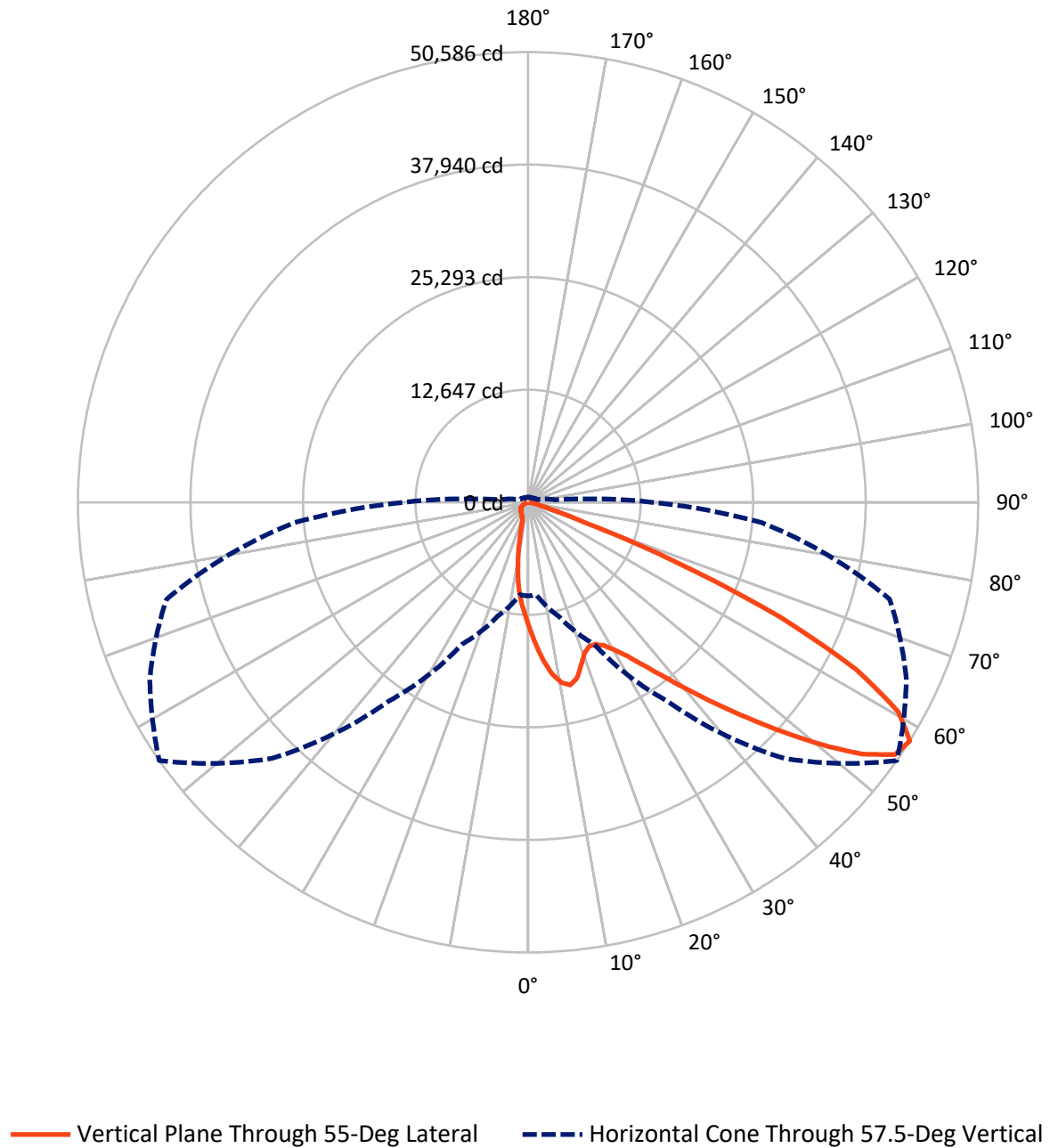
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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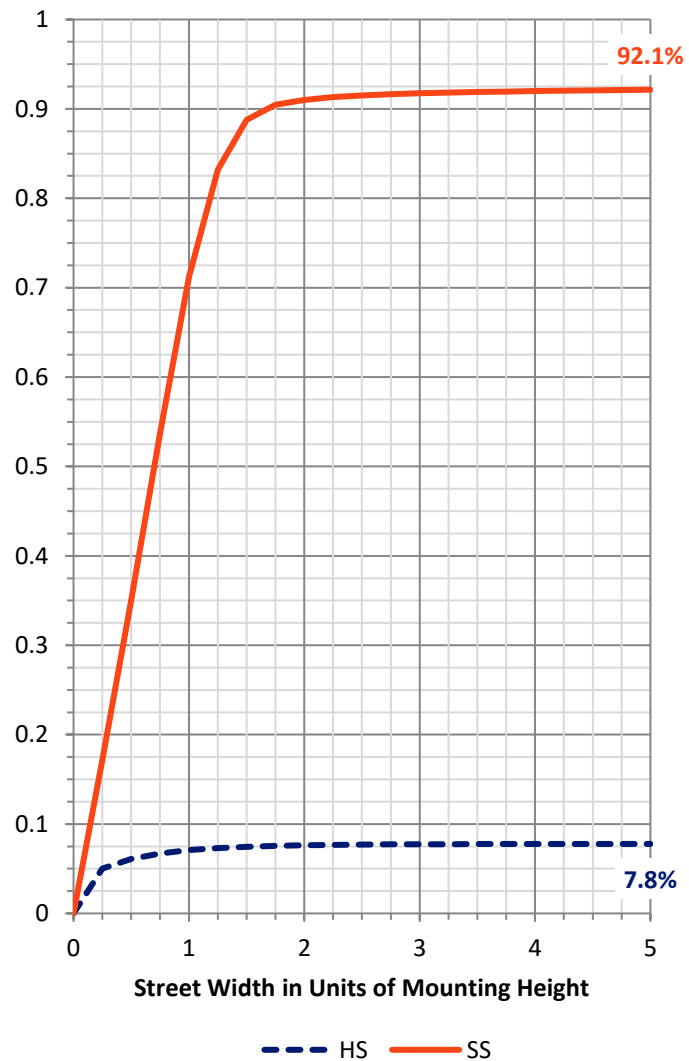
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4526.2	0.0	4526.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	53430.8	0.0	53430.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	57957.0	0.0	57957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1299.5	2.2
10°-20°	3138.9	5.4
20°-30°	5022.2	8.7
30°-40°	8500.4	14.7
40°-50°	13955.8	24.1
50°-60°	15338.4	26.5
60°-70°	8798.1	15.2
70°-80°	1797.7	3.1
80°-90°	106.0	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°	57957.0	100.0
0°-180°	57957.0	100.0

Coefficient of Utilization



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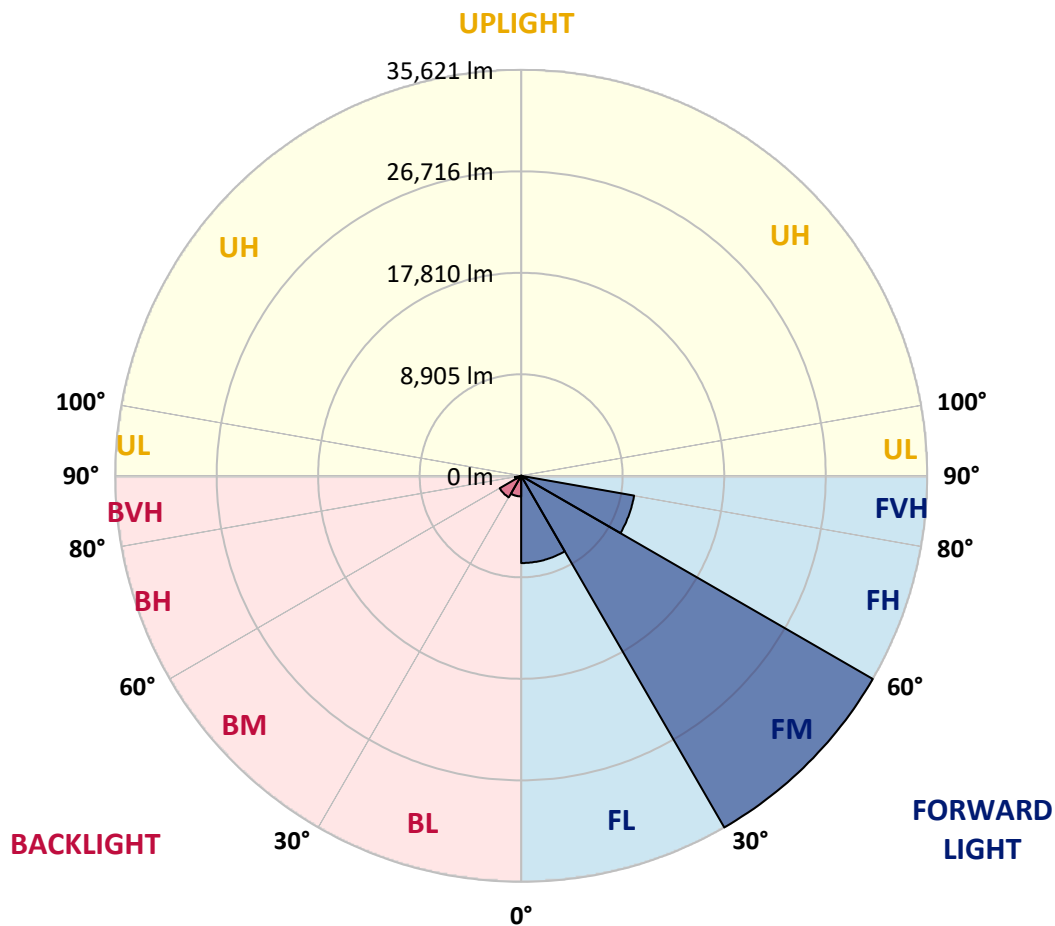
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7653.6	13.2			
FM	(30°-60°)	35620.8	61.5			
FH	(60°-80°)	10057.5	17.4			G4/12000
FVH	(80°-90°)	98.9	0.2			G1/100
BL	(0°-30°)	1807.0	3.1	B3/2500		
BM	(30°-60°)	2173.8	3.8	B2/2500		
BH	(60°-80°)	538.3	0.9	B2/1000		G2/1000
BVH	(80°-90°)	7.1	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°	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2
2.5°	17329.1	17111.1	17078.9	17036.1	16621.5	16310.6	15860.3	15367.1	14813.2	14248.5	13998.4
5°	20020.1	19848.6	19816.4	19616.3	19144.6	18615.7	17815.1	16803.8	15771.0	14555.9	14034.1
7.5°	20541.9	20509.7	20656.3	20649.1	20584.8	20166.7	19491.2	18286.9	16735.9	14934.7	14127.0
10°	18215.4	18297.6	18733.6	19116.0	20148.8	20749.2	20602.7	19609.2	17729.4	15367.1	14230.7
12.5°	16096.2	15999.7	16310.6	16743.0	17943.8	19730.7	21063.7	20713.4	18865.8	15856.7	14384.3
15°	14766.7	14727.4	14902.5	15102.7	16017.5	17818.7	20527.6	21610.5	19959.4	16435.7	14616.6
17.5°	14341.5	14309.3	14362.9	14412.9	15006.2	16399.9	19251.8	22160.8	21006.5	17096.8	14873.9
20°	14688.1	14645.2	14638.1	14598.8	14845.4	15796.0	18097.5	22200.1	21946.4	17697.2	15095.5
22.5°	15699.5	15649.4	15474.3	15317.1	15338.5	15878.2	17582.8	21807.0	22654.0	18258.3	15234.9
25°	17532.8	17450.6	17086.1	16557.2	16221.2	16450.0	17661.5	21288.8	23329.4	18697.9	15167.0
27.5°	19827.2	19719.9	19251.8	18465.6	17697.2	17418.4	18229.7	20931.4	23890.5	19033.8	15020.5
30°	22075.0	21935.7	21474.7	20863.5	19741.4	18862.2	19255.4	21088.7	24558.8	19384.0	14827.5
32.5°	24501.6	24369.4	23758.3	23000.6	22071.5	20888.6	20659.8	21857.0	25377.2	19873.6	14691.7
35°	27571.5	27364.2	26495.8	25463.0	24476.6	23279.4	22561.1	23182.9	26467.2	20620.5	14766.7
37.5°	31066.6	30787.8	29851.5	28425.6	27139.0	25798.9	24876.9	25005.5	28064.6	21621.2	14999.0
40°	34361.6	34107.9	33243.0	31899.3	30283.9	28657.9	27675.1	27389.2	30269.6	22839.8	15406.4
42.5°	36337.9	36109.2	35744.6	35176.4	33814.8	32156.6	30916.5	30298.2	32878.5	24297.9	15903.2
45°	36448.7	36248.5	36738.1	37399.3	37131.2	36027.0	34515.3	33382.4	35498.0	25666.7	16417.8
47.5°	34676.1	34540.3	36027.0	38335.6	39486.3	39950.9	38557.2	36209.2	37660.2	26649.4	16628.7
50°	29844.4	29794.3	32853.5	37091.9	40383.4	43388.9	42820.7	38839.5	39336.2	27156.9	16428.5
52.5°	25877.5	25695.3	27478.6	33110.8	39078.9	45197.2	46987.6	41419.7	40508.4	27253.4	15960.4
55°	19627.0	19466.2	21703.4	26449.3	34872.6	44553.9	50036.1	44082.2	41348.3	27006.8	15120.5
57.5°	10528.3	10428.2	13255.0	17604.3	27260.6	40694.3	50586.4	46898.3	42055.9	26352.8	13944.8
60°	4099.1	4081.2	5139.1	8541.3	16567.9	33107.2	47809.6	48588.7	42499.0	25548.7	12962.0
62.5°	2480.2	2533.8	2705.3	3834.6	7319.0	20566.9	41409.0	46666.0	42795.6	24812.5	12150.7
65°	2051.3	2054.9	2076.3	2633.9	3505.8	8605.6	31173.8	40340.5	42063.0	23501.0	11000.0
67.5°	1758.3	1790.4	1872.6	2090.6	2473.0	3773.9	17947.4	31248.9	37606.6	20449.0	9206.0
70°	1386.6	1429.5	1533.1	1719.0	1908.4	2362.2	6632.9	20792.1	28729.4	15413.6	6961.7
72.5°	1168.6	1165.0	1218.6	1397.3	1515.3	1661.8	2551.7	11650.4	16696.6	7358.3	3445.1
75°	904.2	939.9	1007.8	1168.6	1240.1	1204.4	1383.0	4256.3	5982.5	2230.0	1172.2
77.5°	707.6	736.2	796.9	954.2	1025.7	854.1	796.9	1522.4	1922.7	800.5	528.9
80°	318.1	343.1	543.2	704.0	836.3	589.7	432.4	779.1	854.1	364.5	268.0
82.5°	57.2	96.5	318.1	371.7	428.8	382.4	225.1	403.8	418.1	146.5	92.9
85°	3.6	7.1	110.8	135.8	171.5	125.1	67.9	160.8	139.4	50.0	35.7
87.5°	0.0	0.0	0.0	3.6	3.6	17.9	21.4	28.6	21.4	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°	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2	13966.2
2.5°	13741.1	13233.6	12740.4	12336.6	12100.7	11700.5	11436.0	11393.1	11282.3	11378.8
5°	13476.6	12568.9	11650.4	10828.5	10153.0	9281.0	8630.6	8355.4	8116.0	8198.2
7.5°	13351.5	11918.5	10489.0	9084.5	7640.7	6246.9	5210.5	4778.1	4449.3	4495.8
10°	13183.6	11243.0	9002.3	6858.0	4924.6	3548.7	2834.0	2569.5	2423.0	2426.6
12.5°	13054.9	10435.3	7276.2	4649.4	2998.4	2265.8	2044.2	1979.9	1937.0	1940.5
15°	12990.6	9484.7	5571.5	3098.4	2144.2	1919.1	1865.5	1836.9	1808.3	1804.7
17.5°	12883.4	8426.9	4077.6	2262.2	1876.2	1797.6	1751.1	1719.0	1683.2	1676.1
20°	12722.5	7226.1	2980.5	1912.0	1758.3	1697.5	1633.2	1590.3	1547.4	1540.3
22.5°	12425.9	5957.4	2290.8	1769.0	1672.5	1604.6	1526.0	1476.0	1433.1	1425.9
25°	11875.6	4767.4	1929.8	1679.7	1597.5	1515.3	1429.5	1361.6	1322.3	1315.1
27.5°	11178.7	3745.3	1751.1	1597.5	1501.0	1425.9	1329.4	1265.1	1229.4	1222.2
30°	10356.7	2884.0	1647.5	1504.5	1386.6	1322.3	1236.5	1182.9	1161.5	1161.5
32.5°	9470.4	2305.1	1604.6	1411.6	1286.5	1215.1	1147.2	1125.7	1118.6	1115.0
35°	8637.7	2001.3	1583.2	1336.6	1197.2	1129.3	1100.7	1104.3	1118.6	1118.6
37.5°	7898.0	1904.8	1572.4	1283.0	1118.6	1057.8	1075.7	1107.9	1093.6	1093.6
40°	7229.7	1915.5	1565.3	1243.7	1054.3	1018.5	1054.3	1029.2	993.5	989.9
42.5°	6718.6	2004.9	1551.0	1211.5	1014.9	989.9	975.6	936.3	932.7	939.9
45°	6347.0	2083.5	1547.4	1197.2	972.1	925.6	907.7	868.4	939.9	957.8
47.5°	5907.4	2083.5	1547.4	1147.2	900.6	882.7	854.1	811.2	882.7	900.6
50°	5339.2	1951.3	1486.7	1090.0	843.4	832.7	782.7	729.0	714.7	725.5
52.5°	4620.9	1711.8	1333.0	1011.4	786.2	764.8	704.0	664.7	654.0	654.0
55°	3802.5	1433.1	1125.7	897.0	725.5	686.2	643.3	625.4	614.7	607.5
57.5°	3091.3	1175.8	904.2	796.9	668.3	618.3	604.0	582.5	564.7	553.9
60°	2537.4	925.6	746.9	707.6	611.1	564.7	561.1	532.5	486.0	478.9
62.5°	1958.4	679.0	629.0	614.7	553.9	514.6	507.5	450.3	378.8	364.5
65°	1383.0	528.9	507.5	539.6	493.2	457.4	439.6	353.8	278.8	268.0
67.5°	972.1	443.1	400.3	471.7	428.8	382.4	371.7	300.2	232.3	225.1
70°	693.3	360.9	328.8	403.8	343.1	335.9	314.5	250.2	189.4	182.3
72.5°	489.6	275.2	253.7	350.2	235.9	289.5	257.3	193.0	142.9	135.8
75°	360.9	196.6	178.7	203.7	171.5	218.0	182.3	128.7	89.3	85.8
77.5°	264.5	125.1	107.2	100.1	100.1	135.8	100.1	53.6	39.3	35.7
80°	185.8	57.2	50.0	42.9	39.3	32.2	14.3	7.1	3.6	3.6
82.5°	110.8	25.0	25.0	17.9	10.7	0.0	0.0	0.0	0.0	0.0
85°	25.0	10.7	10.7	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)