

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: P954488

Luminaire Tested: **GALN-SB7D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46050 lumens
Efficiency: N/A
Efficacy: 89.8 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): 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

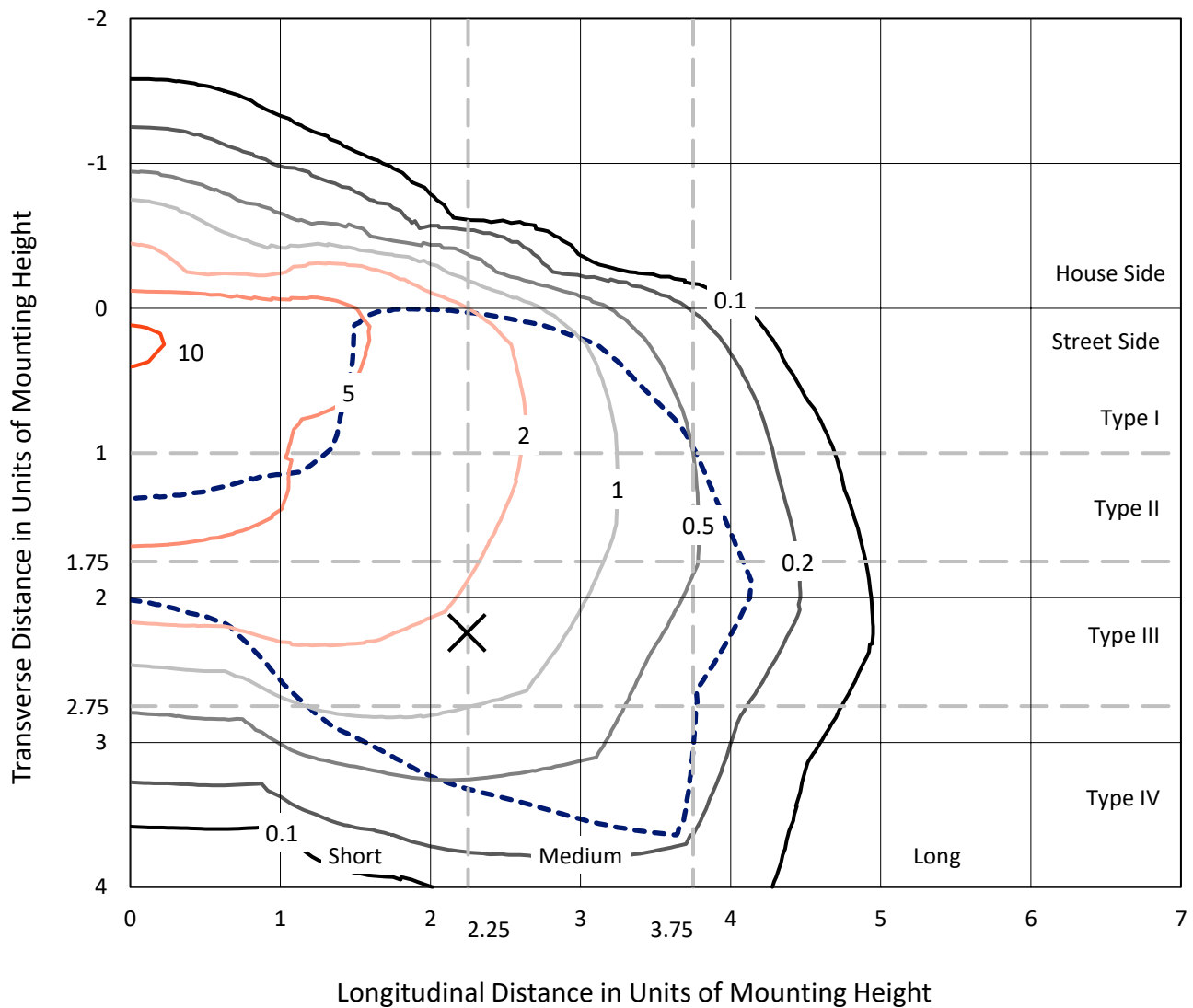


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

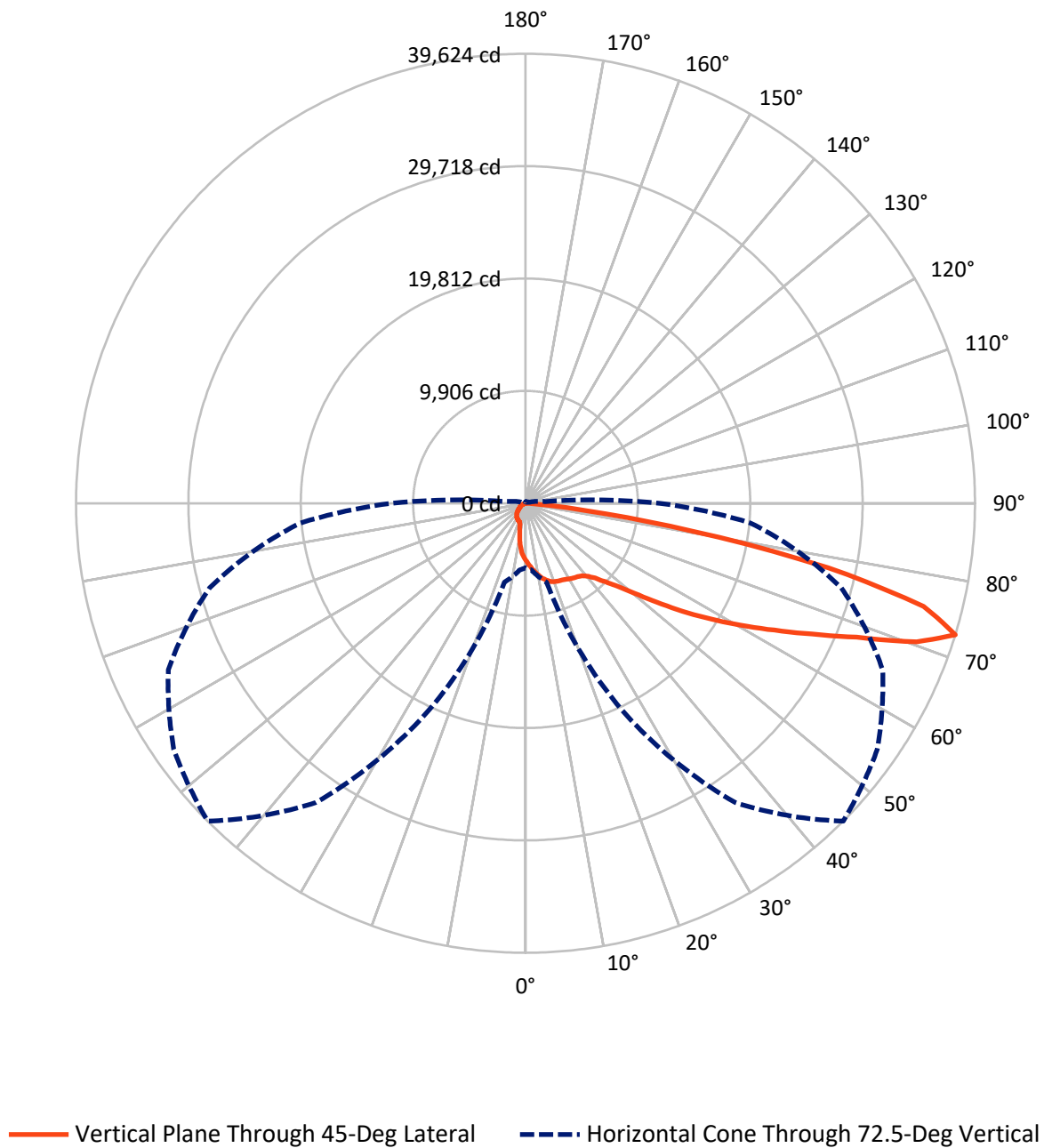


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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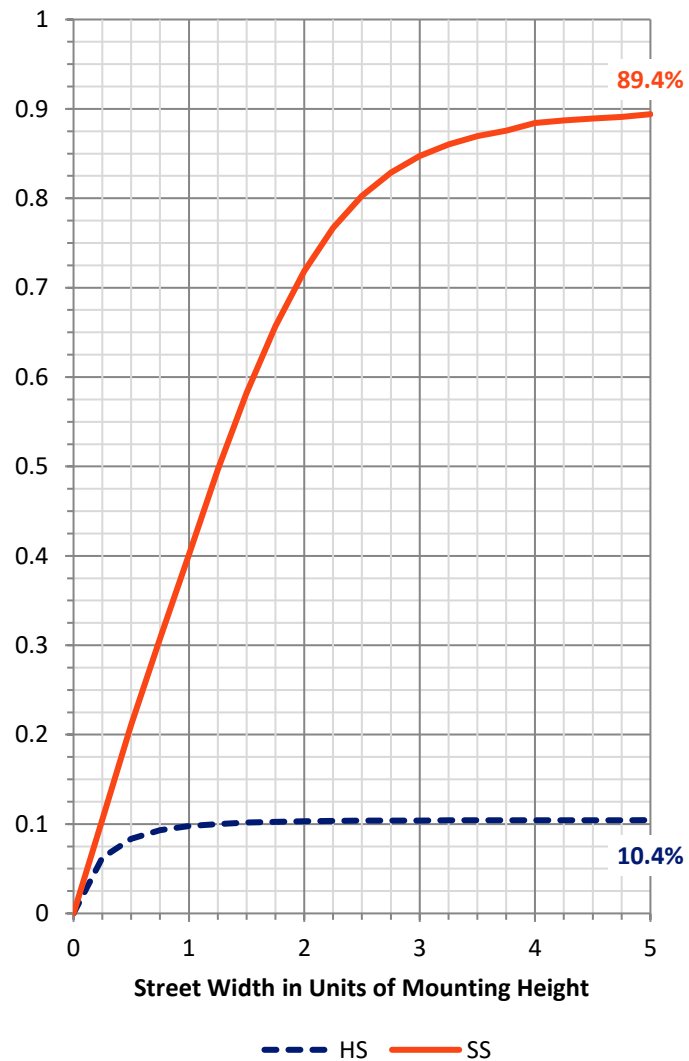
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4838.6	0.0	4838.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	41211.4	0.0	41211.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	46050.0	0.0	46050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	1.0
10°-20°	1389.2	3.0
20°-30°	2281.3	5.0
30°-40°	3235.4	7.0
40°-50°	5347.7	11.6
50°-60°	9606.6	20.9
60°-70°	13339.2	29.0
70°-80°	9675.9	21.0
80°-90°	699.5	1.5
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°	46050.0	100.0
0°-180°	46050.0	100.0

Coefficient of Utilization



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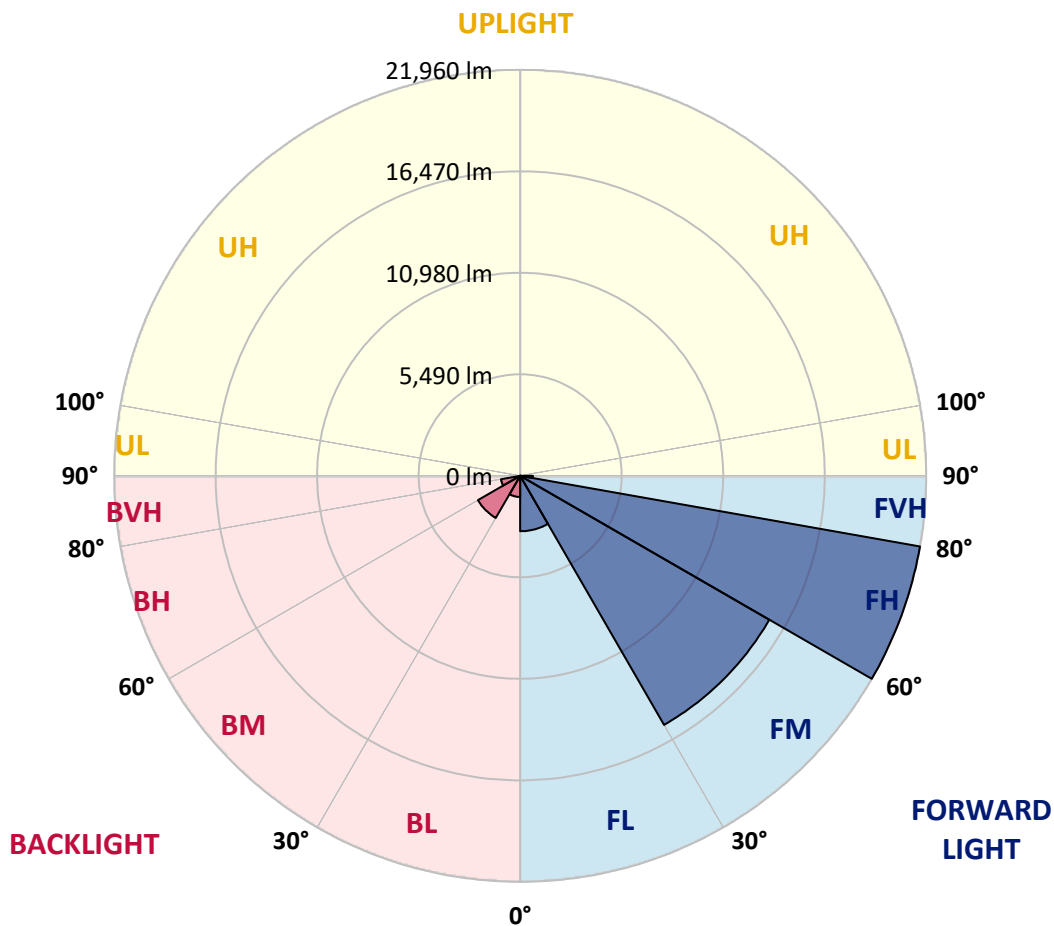
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2999.7	6.5			
FM	(30°-60°)	15558.1	33.8			
FH	(60°-80°)	21959.9	47.7			G5
FVH	(80°-90°)	693.6	1.5			G4/750
BL	(0°-30°)	1146.1	2.5	B3/2500		
BM	(30°-60°)	2631.5	5.7	B3/5000		
BH	(60°-80°)	1055.1	2.3	B3/2500		G3/2500
BVH	(80°-90°)	5.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9
2.5°	5510.1	5519.5	5513.2	5475.5	5412.6	5378.1	5359.2	5296.3	5255.5	5183.2	5107.7
5°	6016.1	6053.9	6031.8	5956.4	5837.0	5752.1	5727.0	5598.1	5481.8	5346.6	5189.5
7.5°	6553.6	6572.5	6531.6	6434.2	6273.9	6129.3	6107.3	5928.1	5742.7	5535.2	5321.5
10°	7018.8	7040.8	6978.0	6836.5	6654.2	6475.0	6443.6	6245.6	6025.6	5771.0	5497.5
12.5°	7408.6	7430.6	7348.9	7179.1	6978.0	6792.5	6761.1	6553.6	6311.6	6028.7	5689.2
15°	7704.0	7744.9	7634.9	7452.6	7235.7	7050.3	7034.5	6830.2	6594.5	6280.2	5918.7
17.5°	7876.9	7917.8	7814.1	7594.0	7408.6	7251.4	7232.6	7062.8	6842.8	6541.1	6141.9
20°	7905.2	7942.9	7832.9	7641.2	7487.2	7361.4	7352.0	7229.4	7069.1	6779.9	6383.9
22.5°	7820.3	7867.5	7766.9	7612.9	7506.0	7440.0	7427.4	7358.3	7267.1	7022.0	6610.2
25°	7732.3	7770.1	7694.6	7559.5	7502.9	7496.6	7506.0	7493.4	7474.6	7267.1	6874.2
27.5°	7726.0	7766.9	7682.0	7553.2	7521.7	7587.7	7597.2	7656.9	7672.6	7490.3	7128.8
30°	7779.5	7807.8	7726.0	7590.9	7575.2	7726.0	7729.2	7836.1	7861.2	7678.9	7380.3
32.5°	7895.8	7927.2	7845.5	7647.5	7625.5	7836.1	7845.5	7986.9	8027.8	7880.1	7644.3
35°	8169.2	8207.0	8112.7	7804.6	7726.0	7939.8	7968.1	8134.7	8216.4	8093.8	7917.8
37.5°	8851.3	8741.3	8612.4	8122.1	7955.5	8103.2	8150.4	8345.3	8489.8	8348.4	8244.7
40°	10545.5	10199.8	9797.4	8662.7	8357.8	8452.1	8489.8	8684.7	8882.8	8744.5	8694.2
42.5°	13088.4	12679.8	12032.3	9907.4	8964.5	9011.6	9039.9	9209.6	9489.4	9379.4	9392.0
45°	15354.7	15206.9	14546.8	12032.3	10099.2	9866.6	9901.2	9989.2	10400.9	10360.1	10441.8
47.5°	17096.0	17011.1	16501.9	14471.4	12016.5	10913.3	11010.7	11051.6	11645.6	11790.2	12010.3
50°	18435.0	18403.6	17947.8	16640.2	14521.7	12456.6	12491.2	12403.2	13292.7	13651.0	14069.1
52.5°	19698.6	19805.5	19469.1	18655.0	17196.6	14477.7	14471.4	14056.5	15257.2	15797.8	16511.4
55°	20839.6	20877.3	20911.9	20710.7	19887.2	16778.5	16718.8	16039.9	17536.0	18095.5	18868.8
57.5°	21911.4	21927.1	22235.2	22646.9	22687.8	19249.1	19139.1	18325.0	20025.5	20424.7	20899.3
60°	22631.2	22703.5	23354.2	24498.3	24998.1	21798.3	21738.5	20908.7	22558.9	22744.4	22656.4
62.5°	21594.0	22034.0	23674.8	25944.2	27179.5	24624.0	24595.7	23816.2	25224.4	25073.5	24319.1
65°	17479.5	18224.4	21109.9	26921.7	29320.0	27779.8	27820.7	26990.9	27962.1	27471.8	25670.7
67.5°	12227.1	13012.9	16426.5	27000.3	31712.0	31485.7	31721.4	30420.1	30869.6	29769.5	25991.3
70°	8455.3	8860.8	11083.0	25309.2	33575.9	36590.3	36584.0	34632.0	33761.4	30816.2	24356.8
72.5°	5686.1	5896.7	7198.0	20078.9	32205.5	39623.5	39441.2	37850.7	34735.8	28820.2	19899.8
75°	2398.3	2552.3	3331.8	11284.2	25479.0	36250.8	35757.3	33450.2	30863.3	22694.1	12415.7
77.5°	760.7	826.7	1313.9	4039.0	14034.5	27248.6	26726.8	20889.9	20685.6	11384.8	4538.8
80°	361.5	421.2	738.7	1621.9	5522.6	14820.3	14748.0	9476.8	8898.5	3074.1	911.5
82.5°	157.2	185.5	408.6	867.5	2470.6	5286.9	5393.8	3224.9	2668.6	1166.1	279.7
85°	50.3	66.0	188.6	399.2	1043.6	1313.9	1298.2	766.9	1075.0	634.9	97.4
87.5°	0.0	0.0	62.9	91.2	106.9	75.4	84.9	66.0	298.6	176.0	34.6
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°	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9	5044.9
2.5°	5070.0	5019.7	4931.7	4850.0	4777.7	4705.4	4661.4	4598.5	4592.3	4592.3	4608.0
5°	5104.6	5022.9	4865.7	4699.1	4507.4	4325.1	4142.8	3966.7	3910.2	3869.3	3888.2
7.5°	5205.2	5076.3	4828.0	4510.5	4145.9	3746.7	3467.0	3165.2	3048.9	2986.1	2995.5
10°	5349.8	5173.7	4796.6	4240.2	3649.3	3105.5	2706.3	2379.4	2253.7	2200.3	2200.3
12.5°	5510.1	5293.2	4740.0	3903.9	3105.5	2454.9	2065.1	1914.2	1895.4	1895.4	1895.4
15°	5701.8	5437.8	4642.5	3507.8	2536.6	1942.5	1804.2	1810.5	1829.4	1841.9	1841.9
17.5°	5899.8	5591.8	4488.5	3064.6	2033.7	1747.6	1750.8	1760.2	1775.9	1788.5	1788.5
20°	6113.6	5745.8	4284.2	2593.2	1744.5	1691.1	1700.5	1709.9	1722.5	1728.8	1731.9
22.5°	6343.0	5890.4	4042.2	2131.1	1647.0	1643.9	1647.0	1656.5	1672.2	1672.2	1678.5
25°	6588.2	6050.7	3765.6	1794.8	1596.8	1596.8	1603.0	1609.3	1621.9	1621.9	1625.0
27.5°	6839.7	6198.4	3473.3	1618.8	1552.8	1549.6	1549.6	1559.0	1565.3	1568.5	1571.6
30°	7116.3	6371.3	3180.9	1581.0	1518.2	1502.5	1493.0	1499.3	1505.6	1508.7	1515.0
32.5°	7399.2	6537.9	2920.1	1596.8	1483.6	1455.3	1423.9	1417.6	1417.6	1430.2	1439.6
35°	7713.5	6720.2	2718.9	1650.2	1464.7	1386.2	1335.9	1307.6	1310.7	1329.6	1339.0
37.5°	8090.7	6940.2	2571.2	1697.3	1452.2	1307.6	1225.9	1191.3	1169.3	1191.3	1185.0
40°	8584.1	7264.0	2464.3	1735.1	1436.5	1216.4	1106.4	1049.8	1009.0	1021.5	1015.3
42.5°	9310.2	7773.2	2423.4	1738.2	1401.9	1109.6	983.8	908.4	848.7	851.8	839.2
45°	10328.6	8577.9	2634.0	1697.3	1326.4	993.3	855.0	754.4	716.7	707.2	694.7
47.5°	11724.2	9750.3	3121.2	1612.5	1216.4	880.1	729.2	644.4	616.1	600.4	590.9
50°	13594.4	11255.9	3661.9	1518.2	1106.4	773.2	625.5	572.1	553.2	537.5	534.3
52.5°	15763.3	12783.5	4105.1	1423.9	996.4	678.9	559.5	528.1	512.3	499.8	496.6
55°	17752.9	13836.5	4079.9	1323.3	889.5	603.5	512.3	493.5	474.6	462.1	455.8
57.5°	18991.4	13984.2	3363.3	1213.3	766.9	543.8	468.3	455.8	433.8	418.0	414.9
60°	19560.3	13141.8	2357.4	1068.7	644.4	487.2	421.2	414.9	386.6	364.6	358.3
62.5°	19664.0	11576.5	1571.6	889.5	537.5	433.8	374.0	364.6	326.9	289.2	270.3
65°	19242.8	9338.5	1087.6	694.7	458.9	377.2	320.6	301.7	260.9	223.2	210.6
67.5°	17910.1	6556.8	757.5	499.8	389.8	298.6	254.6	248.3	216.9	185.5	176.0
70°	15467.8	3737.3	506.1	374.0	308.0	204.3	201.2	207.5	176.0	150.9	138.3
72.5°	11859.4	1709.9	314.3	273.5	210.6	138.3	160.3	163.4	135.2	113.2	100.6
75°	6981.1	732.4	198.0	176.0	106.9	91.2	116.3	119.4	91.2	72.3	62.9
77.5°	2376.3	276.6	125.7	103.7	53.4	50.3	75.4	75.4	50.3	28.3	22.0
80°	540.6	103.7	62.9	40.9	25.1	22.0	25.1	22.0	12.6	3.1	0.0
82.5°	154.0	40.9	25.1	15.7	9.4	9.4	3.1	0.0	0.0	0.0	0.0
85°	44.0	18.9	6.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	3.1	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)