

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: P955218

Luminaire Tested: **GALN-SB8B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43018 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 292.8
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



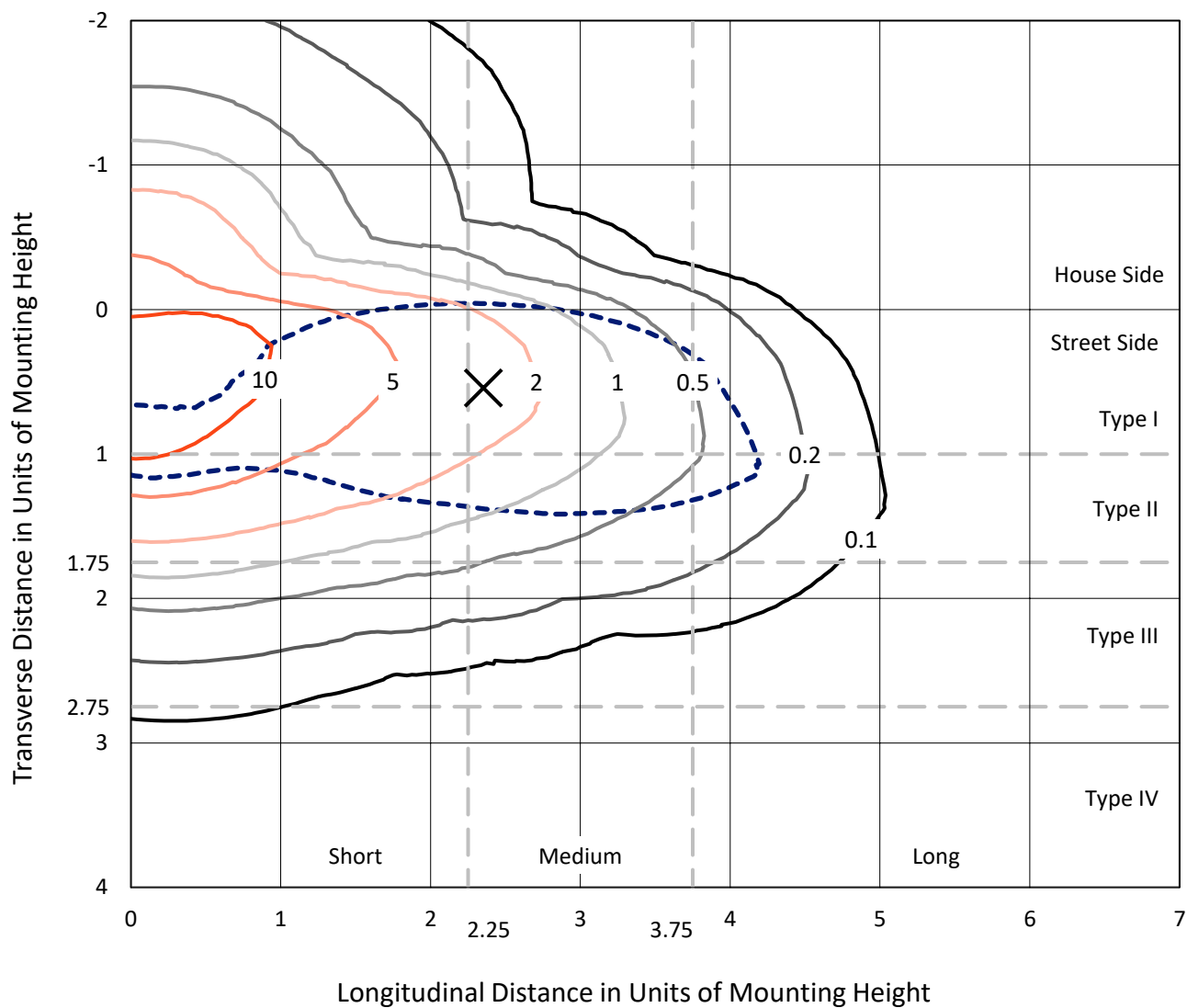
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Iso-Footcandle Lines of Horizontal Illumination

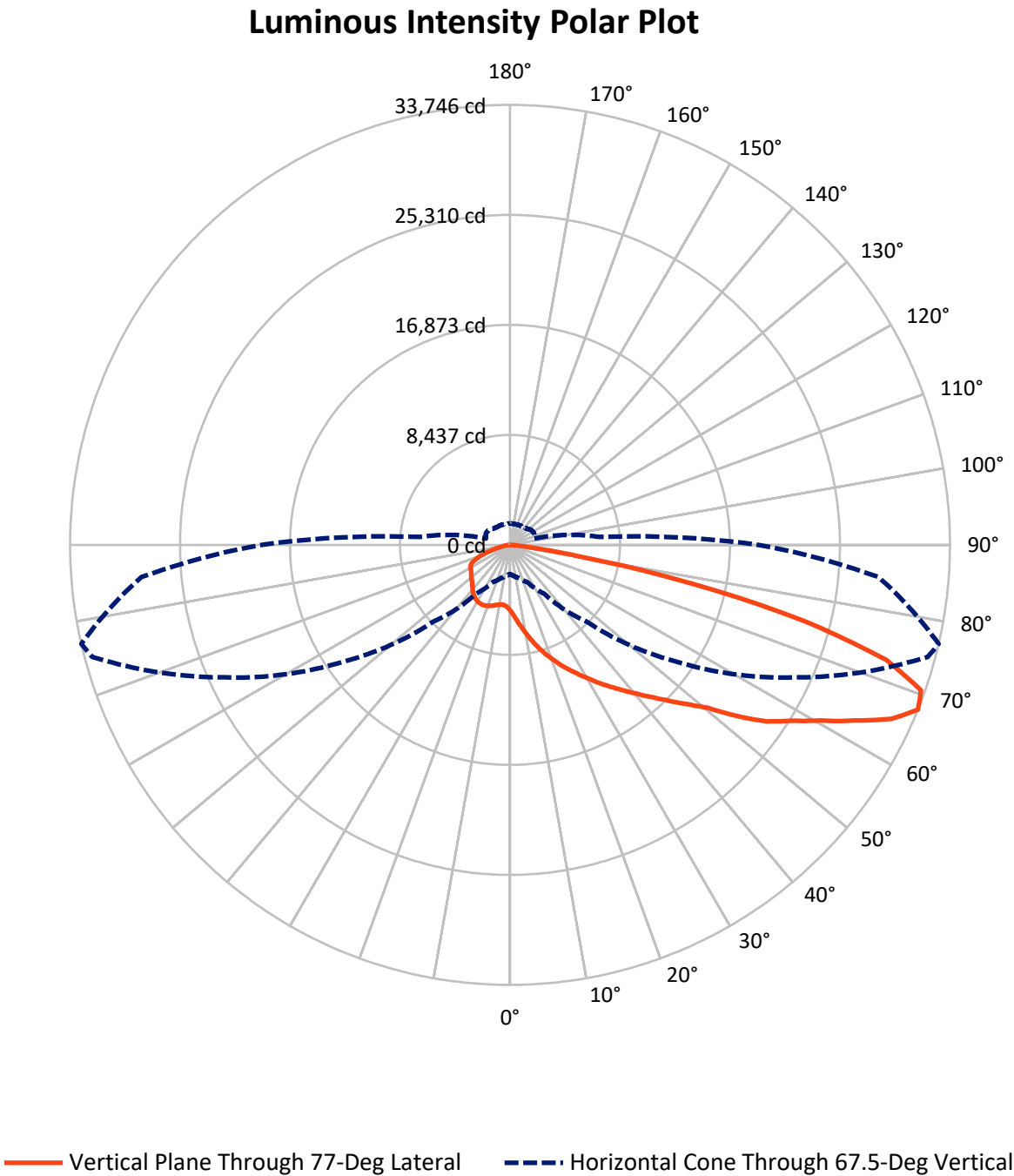
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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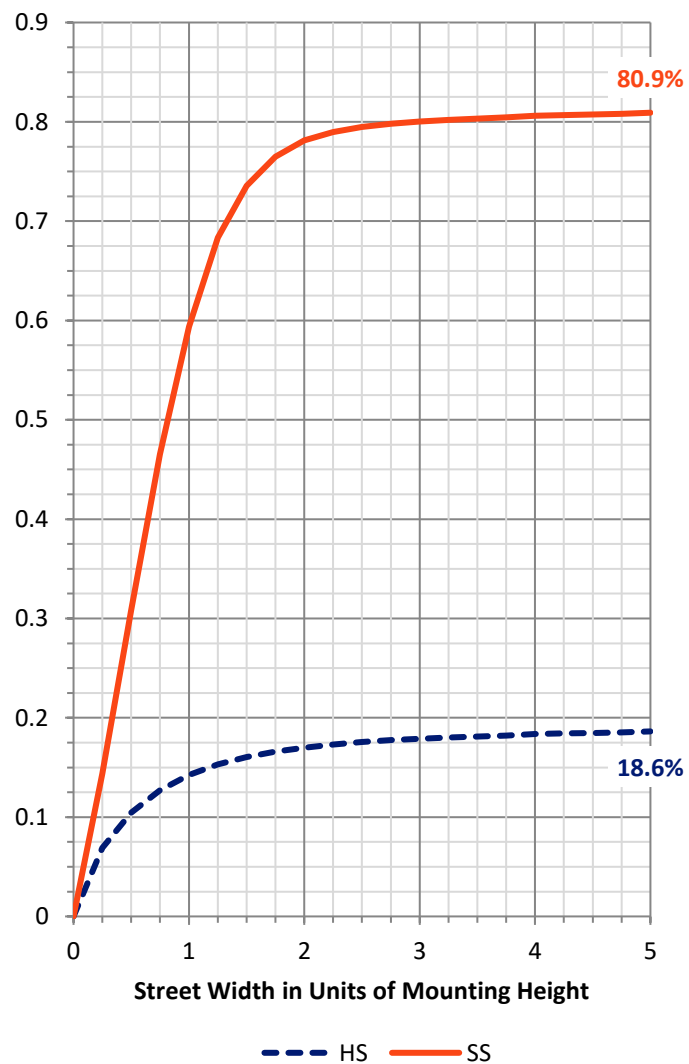
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8137.3	0.0	8137.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	34880.7	0.0	34880.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	43018.0	0.0	43018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.0	1.3
10°-20°	1943.6	4.5
20°-30°	3669.7	8.5
30°-40°	5911.9	13.7
40°-50°	8086.4	18.8
50°-60°	9121.5	21.2
60°-70°	8513.8	19.8
70°-80°	4667.0	10.8
80°-90°	562.9	1.3
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°	43018.0	100.0
0°-180°	43018.0	100.0

Coefficient of Utilization



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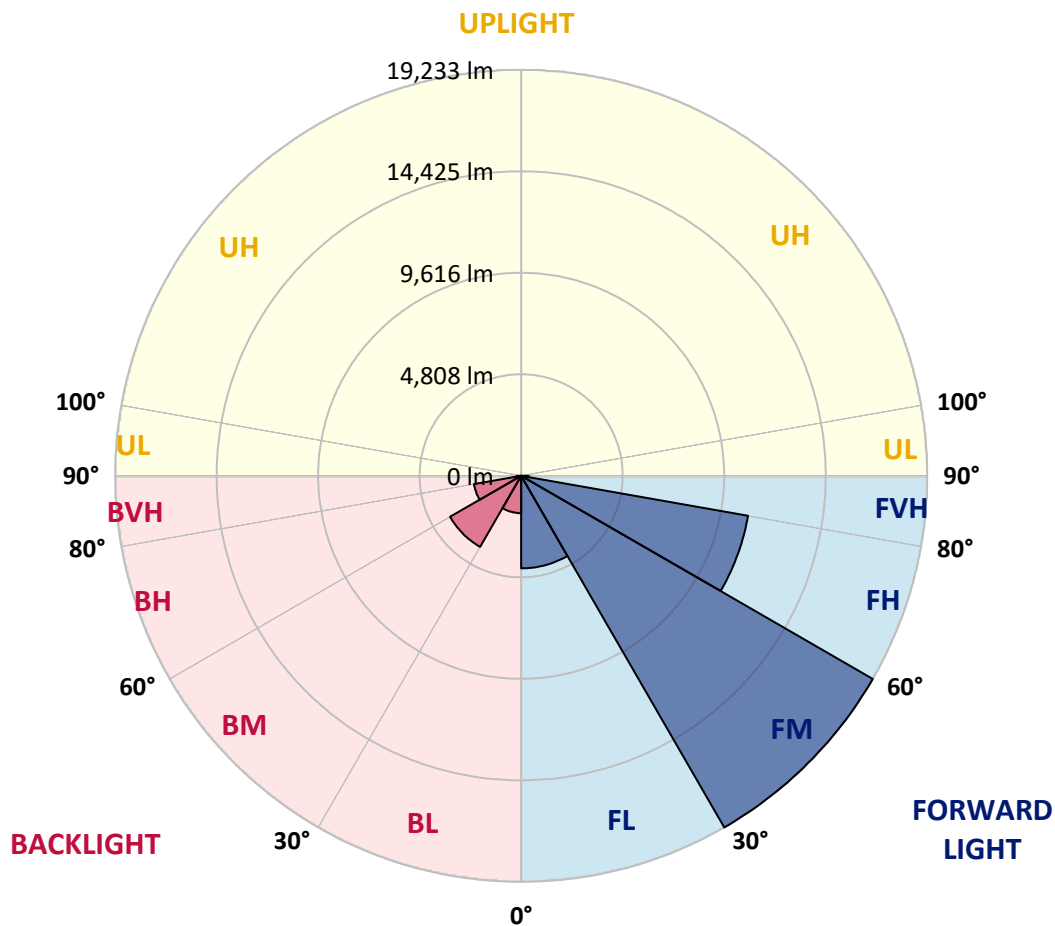
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4385.1	10.2			
FM	(30°-60°)	19232.9	44.7			
FH	(60°-80°)	10910.6	25.4			G4/12000
FVH	(80°-90°)	352.1	0.8			G3/500
BL	(0°-30°)	1769.2	4.1	B3/2500		
BM	(30°-60°)	3887.0	9.0	B3/5000		
BH	(60°-80°)	2270.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	210.9	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3
2.5°	6319.7	6364.1	6308.6	6308.6	6122.1	6024.4	5837.9	5695.8	5440.4	5396.0	5227.2
5°	7470.0	7525.5	7447.8	7414.5	7194.6	6992.6	6679.5	6370.8	5915.6	5869.0	5471.5
7.5°	8360.4	8431.5	8362.7	8327.1	8131.7	7905.2	7538.8	7108.0	6466.3	6375.2	5800.1
10°	9086.6	9097.7	9075.5	9088.8	8935.6	8749.0	8373.8	7871.9	7070.3	6945.9	6197.6
12.5°	9497.4	9548.4	9592.8	9672.8	9646.1	9530.7	9193.1	8593.6	7709.8	7549.9	6630.6
15°	9690.6	9779.4	9879.3	10063.6	10212.4	10241.3	9983.7	9368.6	8360.4	8167.2	7068.1
17.5°	9759.4	9843.8	10001.4	10267.9	10587.7	10803.1	10687.6	10121.3	9004.4	8782.3	7527.7
20°	10108.0	10132.4	10227.9	10481.1	10827.5	11185.0	11271.6	10845.2	9641.7	9390.8	8002.9
22.5°	10854.1	10805.3	10831.9	10947.4	11196.1	11542.5	11740.1	11484.8	10296.8	10008.1	8482.6
25°	12086.5	11944.4	11802.3	11669.1	11795.6	11991.1	12215.3	12124.3	10982.9	10616.5	8966.6
27.5°	13643.2	13470.0	13156.9	12719.4	12566.2	12635.0	12734.9	12717.2	11618.0	11247.2	9466.3
30°	15175.4	14973.3	14600.2	13967.4	13563.2	13381.1	13305.6	13254.6	12308.6	11913.3	9970.3
32.5°	16398.9	16239.0	15872.6	15164.2	14578.0	14267.1	14016.2	13834.1	13030.3	12635.0	10503.3
35°	17469.2	17320.4	16900.7	16128.0	15490.7	15159.8	14831.2	14442.6	13780.8	13381.1	11076.2
37.5°	18446.2	18297.5	17722.3	16918.5	16276.8	16048.0	15754.9	15095.4	14533.6	14156.1	11682.4
40°	19063.6	19030.3	18492.9	17582.4	16916.3	16803.0	16705.3	15852.6	15368.5	15017.7	12348.6
42.5°	19221.2	19294.5	18868.2	18119.8	17484.7	17393.7	17622.4	16709.8	16305.6	15970.3	13103.6
45°	18841.5	19052.5	18772.7	18264.2	17888.9	17840.0	18435.1	17646.8	17342.6	17036.2	14014.0
47.5°	17880.0	18237.5	18122.0	18051.0	17997.7	18208.6	19150.2	18641.7	18517.3	18250.8	15053.2
50°	15939.2	16616.5	16818.6	17267.1	17782.3	18495.1	19800.8	19727.5	19889.6	19620.9	16318.9
52.5°	12584.0	13516.6	14689.0	15812.7	17120.6	18399.6	20515.8	21286.4	21970.3	21823.7	18330.8
55°	10387.8	10807.5	11709.0	13769.7	15837.1	17997.7	20837.8	22545.4	24035.4	23904.4	19856.3
57.5°	8700.2	9075.5	9630.6	11351.5	13896.3	17085.0	21037.6	23313.7	25449.9	25436.6	21361.9
60°	6890.4	7287.9	7856.4	9075.5	11629.1	15508.4	20993.2	24188.6	27255.2	27366.3	23198.3
62.5°	4847.5	5284.9	5915.6	7052.5	9313.1	13465.5	20087.2	24821.5	29380.3	29682.3	25407.7
65°	3186.5	3475.2	3950.4	4931.9	6939.3	10838.6	18357.4	24903.7	31654.2	32164.9	27481.7
67.5°	2233.9	2344.9	2624.7	3157.6	4574.4	8311.6	15601.7	24053.2	33170.8	33746.0	28381.1
70°	1743.1	1798.7	1940.8	2153.9	2873.4	5589.2	11955.5	21841.5	32846.6	33446.2	27441.8
72.5°	1505.5	1558.8	1612.1	1638.8	1927.5	3450.8	8098.4	18261.9	29793.3	30199.7	23860.0
75°	1365.6	1379.0	1423.4	1414.5	1470.0	2238.3	4674.3	13305.6	23506.9	23367.0	17613.5
77.5°	1148.0	1165.8	1239.1	1228.0	1305.7	1530.0	2427.1	8586.9	15239.7	14289.3	9803.8
80°	972.6	981.5	1061.4	1048.1	1134.7	1108.1	1239.1	4376.7	6464.1	5475.9	2826.8
82.5°	337.5	417.5	810.5	834.9	866.0	670.6	715.0	1785.3	1974.1	1512.2	592.9
85°	164.3	175.4	413.0	586.2	584.0	337.5	348.6	637.3	621.8	488.5	197.6
87.5°	26.6	33.3	48.9	228.7	182.1	88.8	119.9	124.4	128.8	111.0	44.4
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°	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3	5047.3
2.5°	5102.9	4991.8	4758.7	4543.3	4374.5	4212.4	4121.4	4043.7	3999.2	3990.4	3990.4
5°	5240.5	5011.8	4587.7	4230.2	3997.0	3823.8	3732.8	3675.0	3646.2	3628.4	3626.2
7.5°	5438.2	5102.9	4498.9	4092.5	3848.2	3723.9	3677.3	3668.4	3666.2	3668.4	3675.0
10°	5711.3	5251.6	4490.0	4059.2	3854.9	3786.1	3783.8	3786.1	3794.9	3797.2	3799.4
12.5°	6006.6	5404.9	4525.5	4088.1	3939.3	3901.5	3894.9	3892.7	3899.3	3903.8	3906.0
15°	6328.6	5606.9	4585.5	4150.2	4032.5	3992.6	3985.9	3972.6	3970.4	3968.2	3965.9
17.5°	6659.5	5806.8	4652.1	4216.9	4092.5	4037.0	4012.6	3981.5	3957.0	3950.4	3957.0
20°	6994.8	6004.4	4698.7	4250.2	4096.9	4019.2	3970.4	3917.1	3874.9	3850.5	3859.3
22.5°	7352.3	6210.9	4727.6	4241.3	4057.0	3950.4	3861.6	3799.4	3735.0	3692.8	3695.0
25°	7700.9	6390.8	4725.4	4194.7	3979.3	3843.8	3730.6	3650.6	3561.8	3517.4	3517.4
27.5°	8036.2	6552.9	4669.9	4112.5	3868.2	3717.2	3581.8	3486.3	3399.7	3357.5	3355.3
30°	8382.6	6688.3	4583.2	3992.6	3737.2	3570.7	3421.9	3339.7	3262.0	3222.0	3219.8
32.5°	8726.8	6812.7	4461.1	3843.8	3586.2	3426.3	3279.8	3204.3	3157.6	3157.6	3159.9
35°	9091.0	6899.3	4299.0	3670.6	3426.3	3273.1	3157.6	3113.2	3108.8	3082.1	3075.5
37.5°	9475.2	6954.8	4101.4	3493.0	3268.7	3124.3	3088.8	3035.5	2991.1	2933.4	2924.5
40°	9879.3	7010.3	3863.8	3308.6	3102.1	3022.2	3006.6	2935.6	2809.0	2666.9	2646.9
42.5°	10370.0	7048.1	3617.3	3124.3	2926.7	2900.1	2922.3	2800.1	2598.1	2491.5	2493.7
45°	10938.5	7110.3	3390.8	2942.3	2746.8	2746.8	2840.1	2680.2	2513.7	2447.1	2458.2
47.5°	11675.7	7254.6	3179.9	2742.4	2580.3	2624.7	2658.0	2535.9	2442.6	2360.5	2358.2
50°	12741.6	7601.0	2962.2	2540.3	2453.7	2542.5	2495.9	2424.9	2316.1	2249.4	2242.8
52.5°	14065.1	7805.3	2769.0	2358.2	2344.9	2433.7	2367.1	2300.5	2218.3	2129.5	2111.8
55°	14966.6	7843.0	2606.9	2225.0	2271.6	2262.8	2238.3	2178.4	2134.0	2016.3	2018.5
57.5°	15974.8	7918.5	2473.7	2145.1	2225.0	2127.3	2118.4	2067.3	2009.6	1929.7	1903.0
60°	17180.5	8036.2	2358.2	2114.0	2185.0	2038.5	1994.1	1974.1	1916.3	1876.4	1887.5
62.5°	18495.1	8142.8	2240.6	2118.4	2138.4	1951.9	1885.3	1878.6	1843.1	1829.7	1829.7
65°	19392.2	7851.9	2094.0	2114.0	2065.1	1863.1	1778.7	1776.5	1747.6	1743.1	1740.9
67.5°	19079.1	6930.4	1896.4	2051.8	1989.6	1774.2	1681.0	1672.1	1634.3	1636.6	1636.6
70°	17511.4	5615.8	1623.2	1898.6	1896.4	1694.3	1578.8	1550.0	1498.9	1507.8	1516.6
72.5°	14571.4	4161.3	1256.8	1643.2	1747.6	1621.0	1461.1	1414.5	1350.1	1359.0	1356.8
75°	10523.3	2829.0	914.9	1250.2	1521.1	1534.4	1345.7	1265.7	1188.0	1201.3	1205.8
77.5°	5384.9	1603.2	672.8	861.6	1194.7	1394.5	1241.3	1134.7	1116.9	1241.3	1223.5
80°	1756.5	803.8	466.3	604.0	783.9	1141.4	1088.1	965.9	961.5	990.4	850.5
82.5°	524.1	339.7	299.8	397.5	433.0	874.9	939.3	730.6	628.4	661.7	683.9
85°	179.9	164.3	171.0	197.6	206.5	513.0	657.3	484.1	457.4	504.1	497.4
87.5°	42.2	57.7	48.9	44.4	44.4	124.4	255.4	202.1	279.8	186.5	179.9
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)