

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: P532080

Luminaire Tested: **GALN-SA7B-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26694 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 286
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



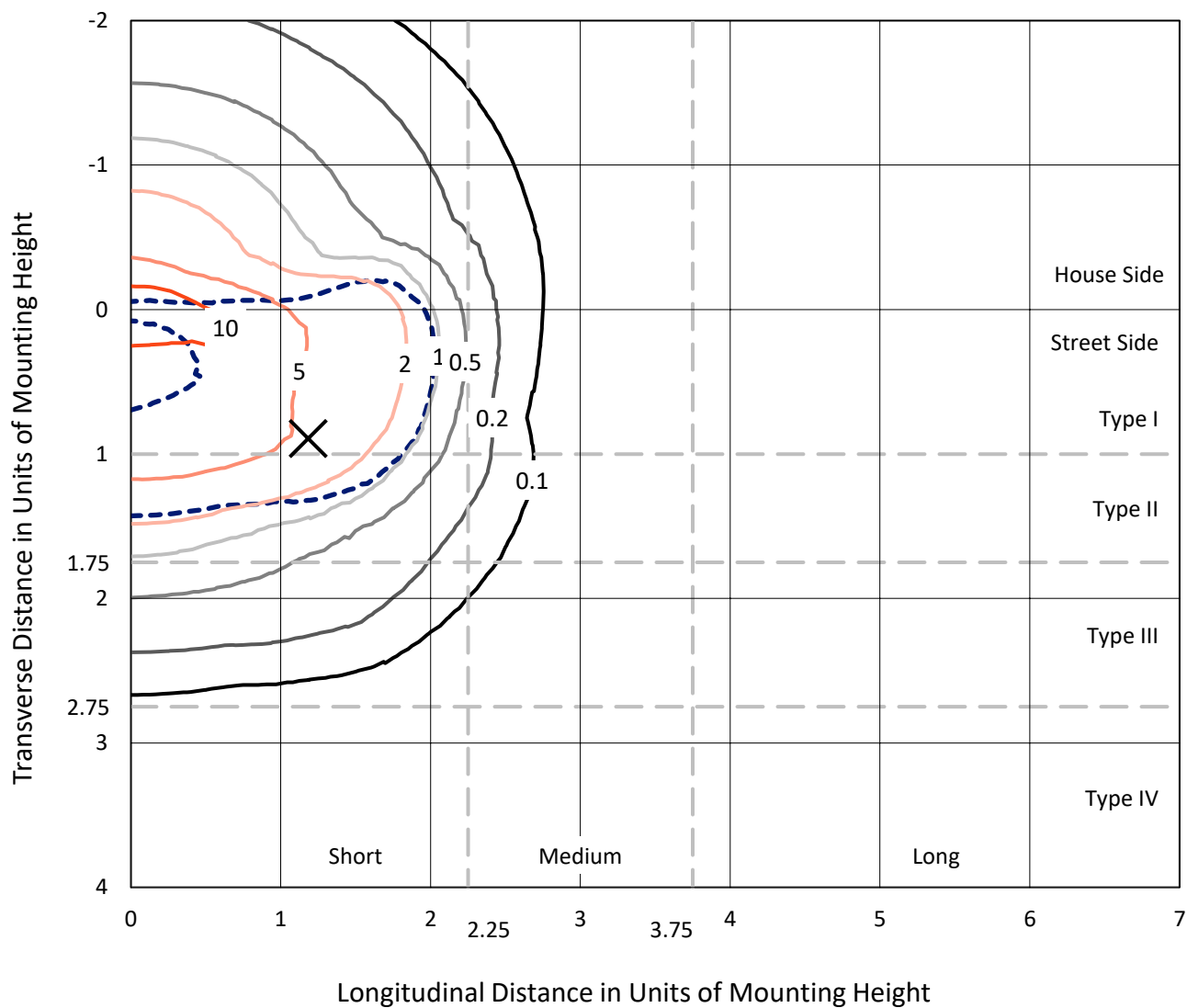
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



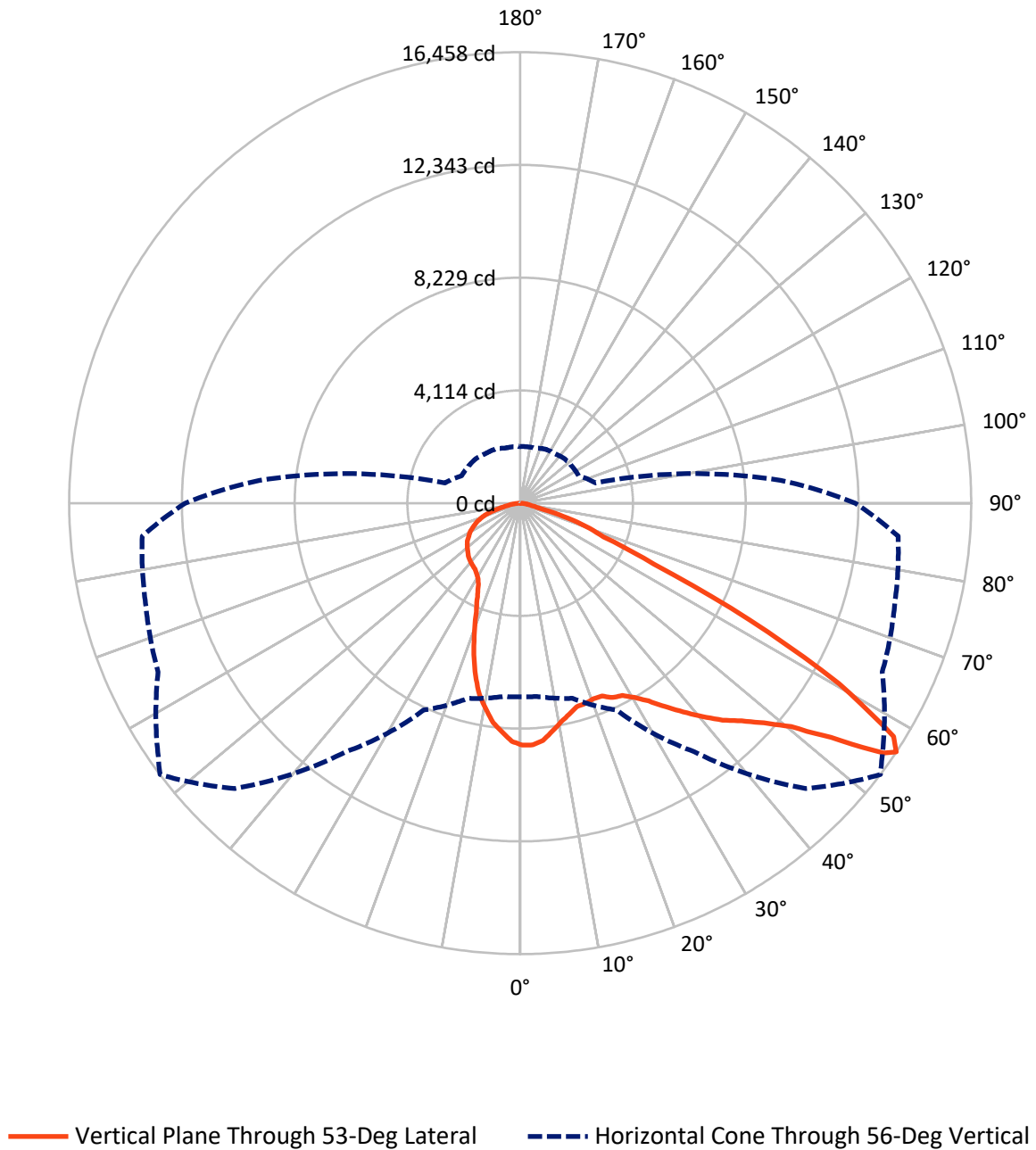
Based on 25 foot mounting height. Maximum calculated value = 14.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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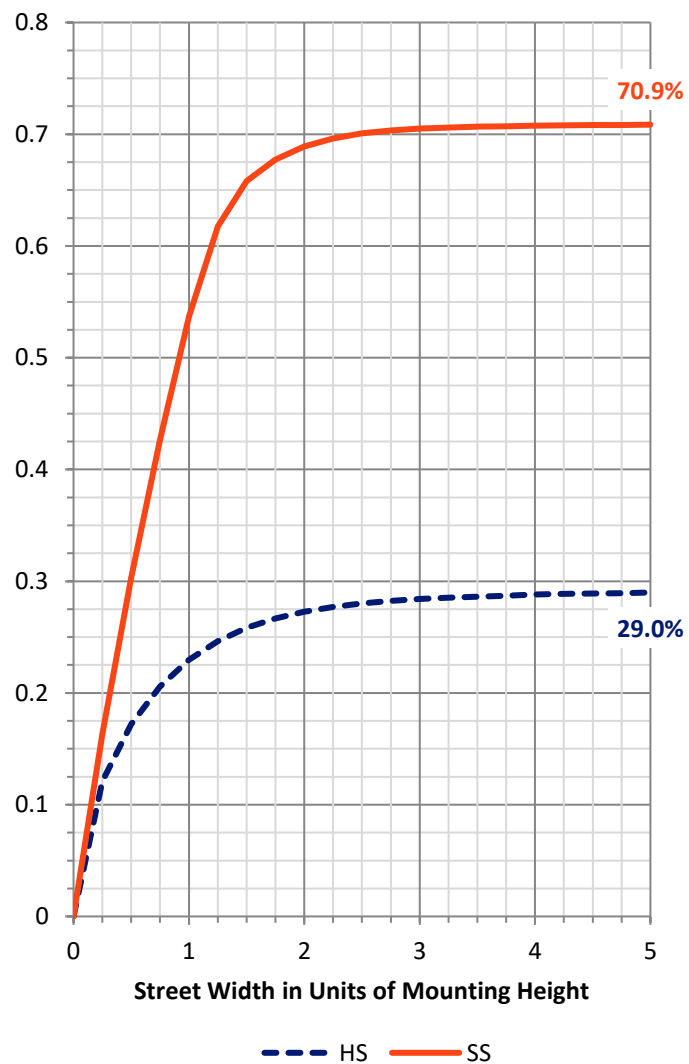
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7789.9	0.0	7789.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18904.1	0.0	18904.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	26694.0	0.0	26694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	2.9
10°-20°	1952.7	7.3
20°-30°	2879.4	10.8
30°-40°	4114.1	15.4
40°-50°	5662.5	21.2
50°-60°	6691.6	25.1
60°-70°	3566.2	13.4
70°-80°	904.7	3.4
80°-90°	141.1	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°	26694.0	100.0
0°-180°	26694.0	100.0

Coefficient of Utilization



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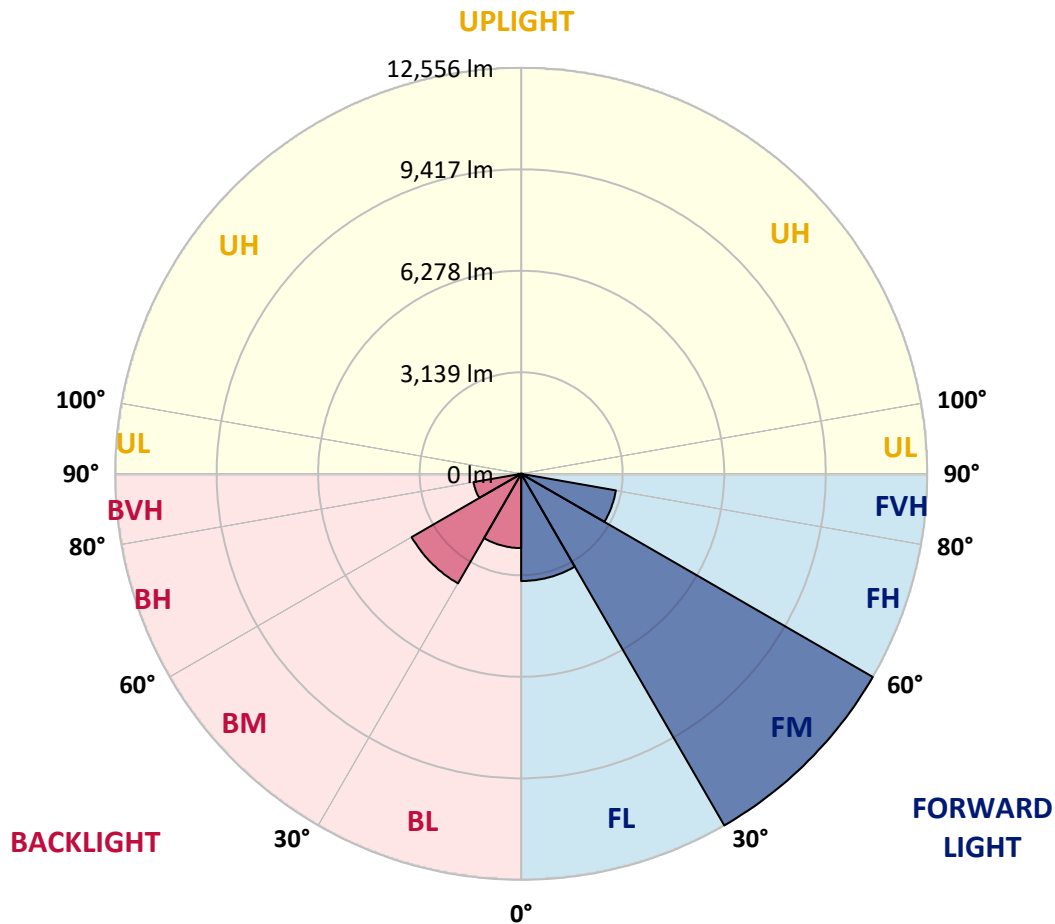
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3316.3	12.4			
FM	(30°-60°)	12556.3	47.0			
FH	(60°-80°)	2974.7	11.1			G2/5000
FVH	(80°-90°)	56.7	0.2			G1/100
BL	(0°-30°)	2297.6	8.6	B3/2500		
BM	(30°-60°)	3911.8	14.7	B3/5000		
BH	(60°-80°)	1496.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	84.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4
2.5°	8721.8	8646.5	8691.0	8673.9	8814.3	8855.4	8834.9	8852.0	8930.7	8893.1	8814.3
5°	8150.0	8256.1	8276.7	8328.0	8410.2	8571.2	8697.9	8732.1	8769.8	8944.4	8927.3
7.5°	7629.5	7701.4	7663.7	7814.4	7992.5	8252.7	8406.8	8434.2	8780.1	8875.9	8947.9
10°	7300.7	7228.8	7400.0	7441.1	7643.2	7941.1	8126.0	8239.0	8554.1	8934.2	8978.7
12.5°	6996.0	6972.0	7074.7	7191.2	7417.2	7725.4	7913.7	7958.2	8444.5	8845.1	9054.0
15°	6770.0	6742.6	6845.3	6930.9	7194.6	7468.5	7708.2	7834.9	8324.6	8793.8	8988.9
17.5°	6591.9	6588.5	6646.7	6800.8	7071.3	7300.7	7687.7	7694.5	8263.0	8872.5	9043.7
20°	6581.6	6578.2	6588.5	6759.7	7006.2	7287.0	7622.6	7684.3	8263.0	8817.7	9047.2
22.5°	6667.2	6612.4	6674.1	6783.7	6961.7	7311.0	7646.6	7783.6	8461.6	9088.3	9201.3
25°	6804.2	6817.9	6852.1	6889.8	6992.5	7365.8	7858.9	7971.9	8694.5	9321.1	9413.6
27.5°	7054.2	7047.3	7061.0	7081.6	7170.6	7417.2	7944.5	8235.6	9180.7	9735.5	9643.0
30°	7420.6	7396.6	7451.4	7523.3	7441.1	7581.5	8228.7	8447.9	9632.7	10153.2	9899.8
32.5°	7752.8	7841.8	7944.5	7975.3	7876.0	7903.4	8605.4	8828.0	10009.4	10666.9	10214.9
35°	8167.1	8239.0	8376.0	8471.9	8454.7	8372.6	9119.1	9413.6	10553.9	11043.6	10547.0
37.5°	8571.2	8656.8	8882.8	9167.0	9009.5	8971.8	9667.0	9910.1	10721.7	11245.6	10790.2
40°	9221.8	9218.4	9608.8	9756.0	9896.4	9831.3	10235.4	10317.6	10810.7	11201.1	10797.0
42.5°	9985.4	9937.5	10334.7	10564.2	10745.6	10752.5	10827.8	10800.4	10851.8	10975.1	10725.1
45°	10711.4	10814.1	11214.8	11625.7	11807.2	11827.7	11327.8	11276.4	10923.7	10910.0	10588.1
47.5°	11598.3	11622.3	11951.0	12492.1	12913.3	12769.4	11975.0	11862.0	11238.8	11344.9	10817.6
50°	11649.7	11827.7	12122.2	12759.2	14053.6	14015.9	12814.0	12601.6	11745.6	11961.3	11457.9
52.5°	10574.4	10533.3	10882.6	11923.6	13968.0	15255.5	14204.2	13697.4	12834.5	12670.1	12495.5
55°	8057.5	8153.4	8461.6	9512.9	12129.1	15272.7	16097.9	15683.6	13998.8	13718.0	13516.0
56°	7067.9	7081.6	7372.6	8331.5	11067.5	14728.2	16457.5	16121.9	14577.5	14149.5	13841.3
57.5°	5859.1	5780.3	5931.0	6454.9	9341.7	13577.6	16063.7	16392.4	15255.5	14615.2	14187.1
60°	4612.6	4595.5	4533.9	4629.7	5903.6	10228.6	13372.1	14111.8	15187.0	14176.9	13587.9
62.5°	3766.8	3681.2	3804.5	3941.4	4102.4	6345.3	9396.4	9831.3	12057.2	11317.5	10208.0
65°	2921.0	2879.9	3034.0	3479.2	3575.0	4030.5	5352.3	5687.9	7119.2	6992.5	6157.0
67.5°	2010.1	2016.9	2150.5	2828.5	3314.8	3273.7	3277.1	3451.8	3715.4	2760.0	2403.9
70°	1273.9	1270.4	1342.3	1821.8	2667.6	2695.0	2558.0	2506.6	2376.5	1438.2	1523.8
72.5°	818.4	794.5	832.1	1006.8	1380.0	1595.8	1643.7	1674.5	1376.6	1130.0	1225.9
75°	462.3	438.3	424.6	469.1	544.5	630.1	691.7	712.3	797.9	856.1	907.5
77.5°	140.4	126.7	154.1	205.5	270.5	363.0	441.7	455.4	537.6	606.1	657.5
80°	61.6	68.5	95.9	137.0	191.8	256.8	311.6	332.2	387.0	438.3	452.0
82.5°	37.7	41.1	65.1	92.5	133.6	181.5	222.6	229.4	284.2	325.3	335.6
85°	13.7	17.1	34.2	54.8	85.6	116.4	116.4	126.7	116.4	116.4	126.7
87.5°	0.0	0.0	3.4	6.8	6.8	10.3	13.7	13.7	17.1	20.5	24.0
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°	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4	8831.4
2.5°	8855.4	8838.3	8810.9	8711.6	8701.3	8670.5	8499.3	8471.9	8499.3	8417.1	8423.9
5°	8838.3	8889.6	8684.2	8584.9	8400.0	8266.4	8112.3	8033.6	7893.2	7804.1	7903.4
7.5°	8913.6	8893.1	8636.2	8420.5	8143.1	7804.1	7533.6	7379.5	7132.9	7064.5	7115.8
10°	8886.2	8776.6	8475.3	8191.1	7667.1	7369.2	6930.9	6506.3	6273.4	6153.6	6136.5
12.5°	8848.5	8817.7	8314.3	7824.7	7273.3	6646.7	6030.3	5629.6	5249.5	5085.2	5109.1
15°	8893.1	8632.8	8013.0	7393.2	6660.4	5838.5	5174.2	4657.1	4393.5	4287.3	4287.3
17.5°	8872.5	8543.8	7869.2	6910.4	5982.4	5009.8	4280.5	3968.8	3859.3	3859.3	3890.1
20°	8882.8	8602.0	7578.1	6427.5	5181.1	4218.8	3688.0	3575.0	3623.0	3640.1	3657.2
22.5°	8941.0	8410.2	7293.9	5896.7	4438.0	3609.3	3349.0	3352.4	3438.1	3530.5	3513.4
25°	9012.9	8334.9	6948.0	5369.4	3869.5	3311.4	3229.2	3218.9	3284.0	3331.9	3338.8
27.5°	8951.3	8204.8	6595.3	4711.9	3403.8	3112.7	3095.6	3102.5	3123.0	3218.9	3188.1
30°	9153.3	8242.4	6153.6	4160.6	3147.0	3047.7	3027.1	3016.9	3047.7	3075.1	3051.1
32.5°	9403.3	8108.9	5824.8	3629.8	3020.3	2999.7	2958.6	2945.0	2962.1	2934.7	2948.4
35°	9512.9	8084.9	5396.8	3249.7	2921.0	2903.9	2879.9	2876.5	2879.9	2855.9	2835.4
37.5°	9574.5	8197.9	4907.1	3075.1	2859.3	2876.5	2821.7	2814.8	2753.2	2766.9	2777.2
40°	9680.7	8023.3	4509.9	2907.3	2821.7	2787.4	2739.5	2729.2	2688.1	2664.2	2688.1
42.5°	9526.6	7971.9	4119.5	2835.4	2766.9	2729.2	2695.0	2636.8	2623.1	2602.5	2588.8
45°	9403.3	7677.4	3770.2	2746.3	2701.8	2681.3	2616.2	2554.6	2503.2	2523.8	2492.9
47.5°	9495.8	7574.7	3424.4	2671.0	2612.8	2588.8	2523.8	2475.8	2424.4	2400.5	2393.6
50°	9865.6	7766.5	3133.3	2616.2	2537.5	2523.8	2438.1	2383.4	2335.4	2318.3	2325.1
52.5°	10749.1	8290.4	2934.7	2503.2	2465.5	2403.9	2356.0	2287.5	2256.7	2201.9	2236.1
55°	11868.8	9143.0	2883.3	2397.1	2376.5	2321.7	2256.7	2205.3	2147.1	2102.6	2092.3
56°	12228.4	9550.5	2842.2	2356.0	2321.7	2290.9	2205.3	2174.5	2082.0	2071.7	2064.9
57.5°	12519.5	9910.1	2849.1	2277.2	2243.0	2215.6	2164.2	2088.9	2027.2	1989.6	2006.7
60°	11862.0	9276.6	2718.9	2157.3	2150.5	2099.1	2027.2	1993.0	1917.6	1873.1	1862.9
62.5°	8817.7	6297.4	2205.3	2003.3	1999.8	1945.0	1862.9	1825.2	1811.5	1749.8	1749.8
65°	5078.3	3948.3	1907.4	1876.5	1849.2	1794.4	1712.2	1681.4	1647.1	1626.6	1609.4
67.5°	2167.6	2047.8	1732.7	1729.3	1698.5	1630.0	1547.8	1499.9	1455.4	1414.3	1434.8
70°	1571.8	1595.8	1564.9	1547.8	1510.1	1424.5	1352.6	1294.4	1225.9	1198.5	1219.1
72.5°	1246.5	1297.8	1342.3	1345.8	1301.3	1202.0	1123.2	1044.4	969.1	931.4	948.5
75°	945.1	979.4	1023.9	1034.2	969.1	900.6	825.3	743.1	684.9	640.4	647.2
77.5°	681.4	674.6	715.7	708.8	678.0	630.1	561.6	486.3	421.2	380.1	383.5
80°	465.7	476.0	500.0	496.5	458.9	428.0	376.7	315.0	267.1	232.9	226.0
82.5°	325.3	342.4	363.0	345.9	315.0	284.2	246.6	202.0	164.4	137.0	130.1
85°	116.4	133.6	154.1	164.4	174.6	167.8	140.4	113.0	82.2	68.5	65.1
87.5°	24.0	27.4	30.8	30.8	30.8	27.4	24.0	24.0	20.5	10.3	10.3
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)