

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: P456491

Luminaire Tested: **GALN-SA7D-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40592 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

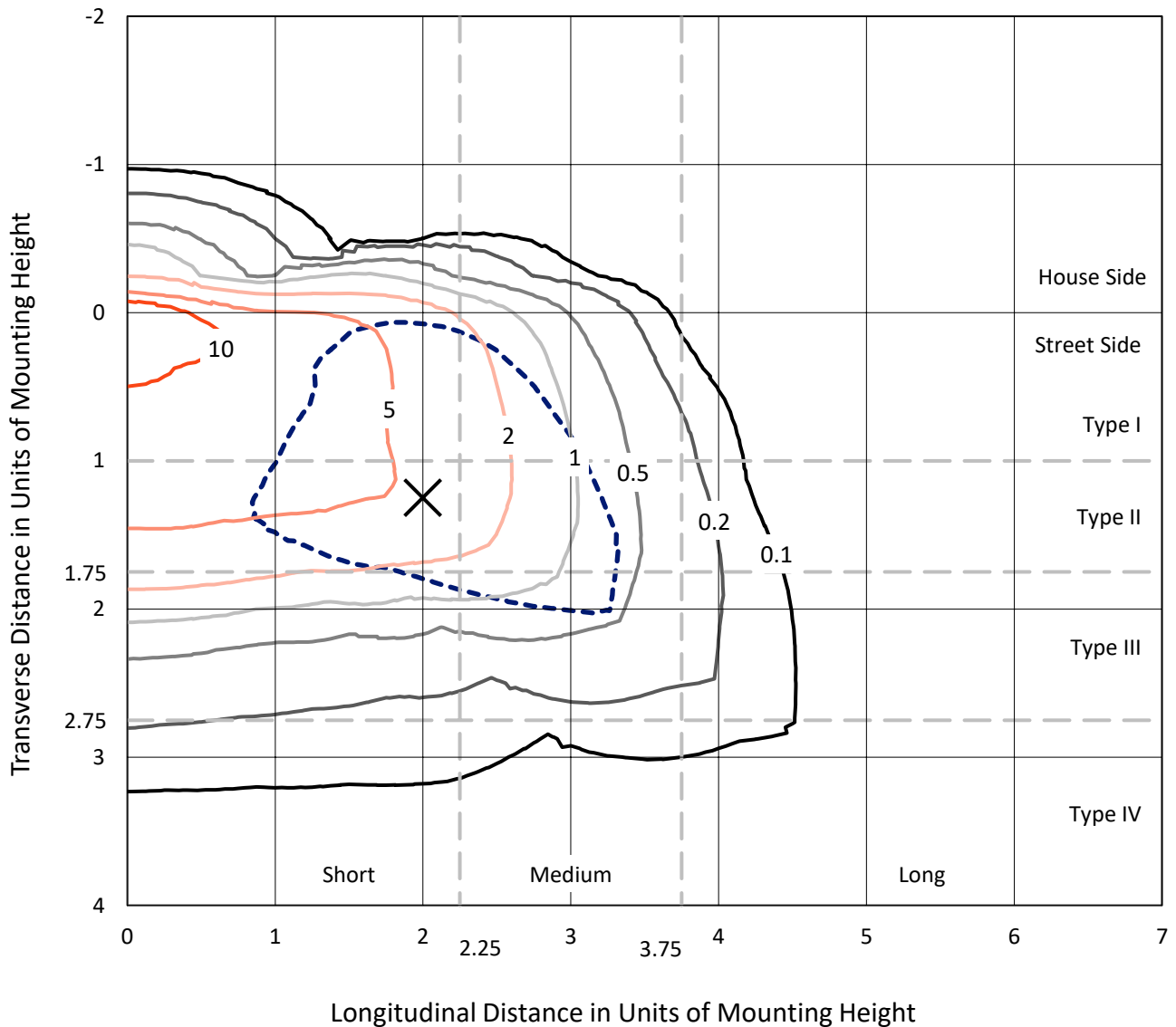
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

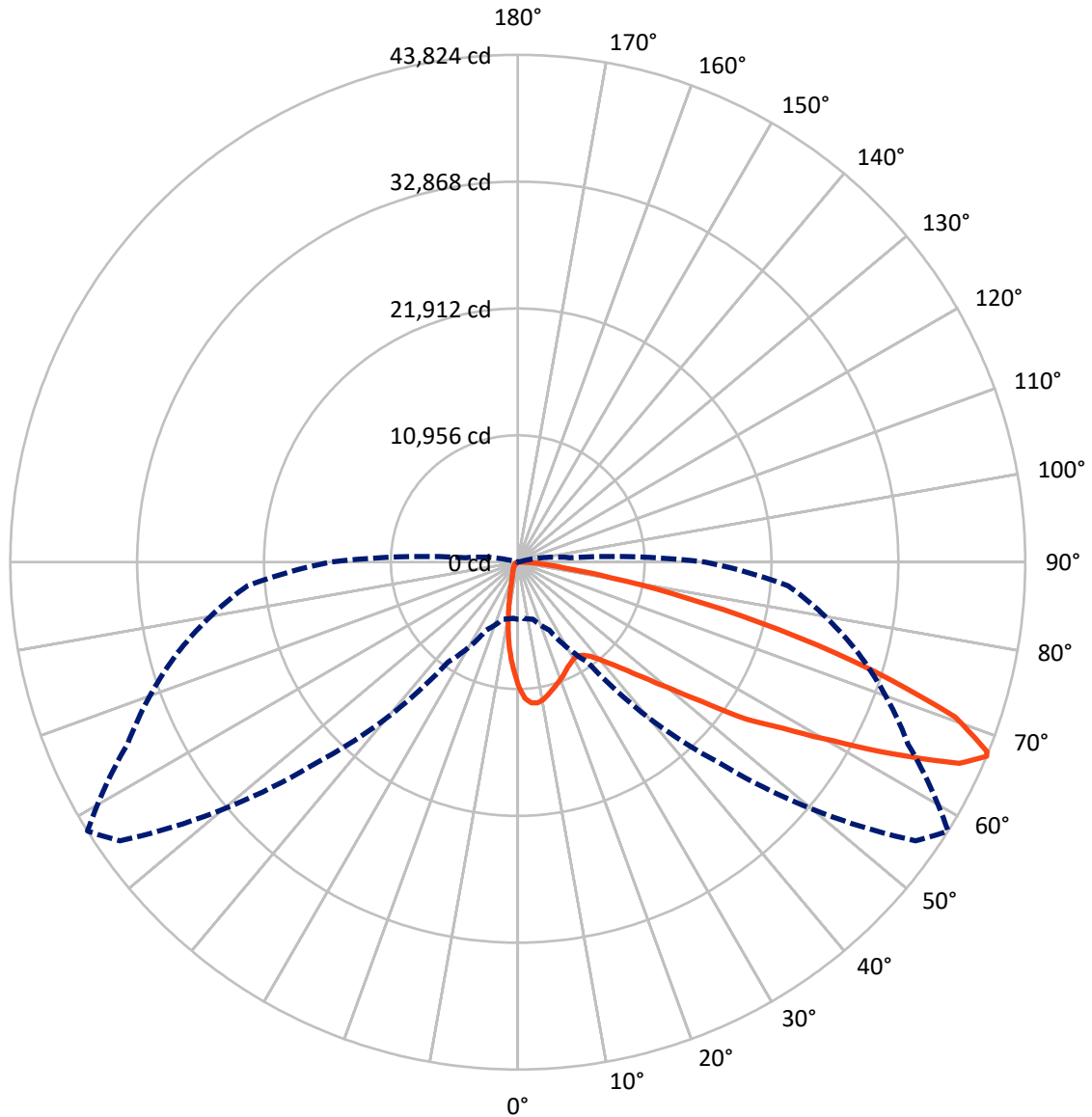
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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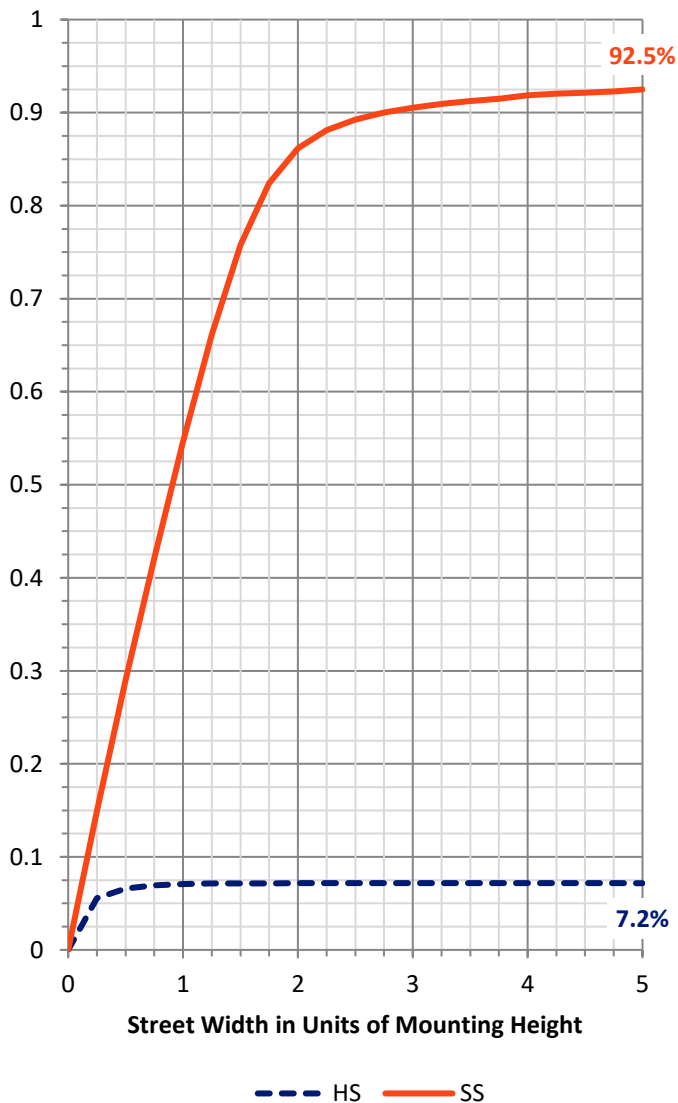
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2929.4	0.0	2929.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	37662.7	0.0	37662.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	40592.0	0.0	40592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	873.2	2.2
10°-20°	1885.9	4.6
20°-30°	2555.5	6.3
30°-40°	3544.3	8.7
40°-50°	5652.8	13.9
50°-60°	9771.4	24.1
60°-70°	11162.0	27.5
70°-80°	4653.5	11.5
80°-90°	493.4	1.2
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°	40592.0	100.0
0°-180°	40592.0	100.0

Coefficient of Utilization



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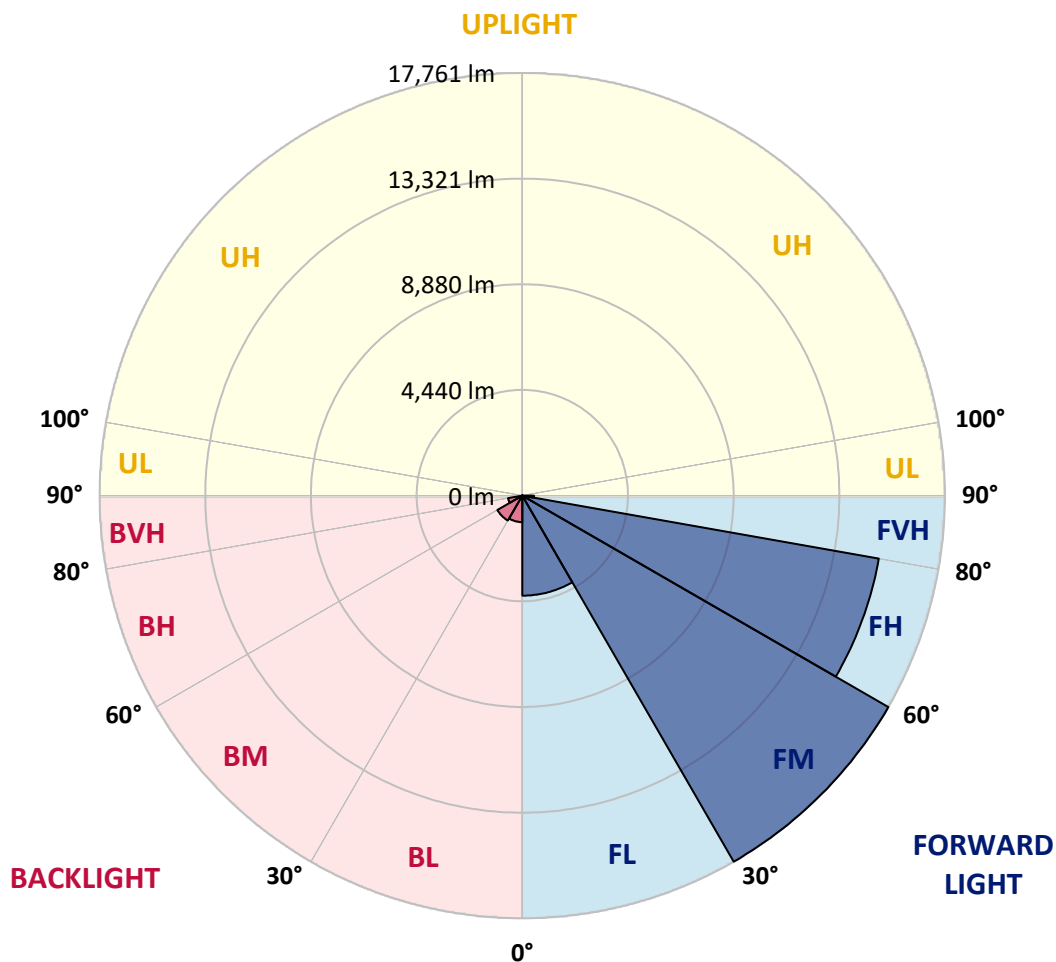
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4202.2	10.4			
FM	(30°-60°)	17760.7	43.8			
FH	(60°-80°)	15209.9	37.5			G5
FVH	(80°-90°)	489.8	1.2			G3/500
BL	(0°-30°)	1112.3	2.7	B3/2500		
BM	(30°-60°)	1207.9	3.0	B2/2500		
BH	(60°-80°)	605.6	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6
2.5°	12488.4	12507.4	12436.9	12379.9	12233.5	12076.1	11867.3	11756.1	11566.2	11238.0	10874.5
5°	12781.4	12805.8	12795.0	12781.4	12724.4	12572.5	12306.7	12209.1	11929.7	11395.3	10738.9
7.5°	12130.4	12219.9	12230.8	12336.5	12436.9	12450.5	12350.1	12276.9	12019.2	11392.6	10497.5
10°	11267.8	11327.5	11414.3	11536.3	11777.8	11978.5	12076.1	12065.3	11916.1	11308.5	10215.3
12.5°	10397.1	10429.6	10562.6	10771.4	11067.1	11408.9	11669.3	11720.8	11723.5	11208.1	9979.4
15°	9648.4	9634.9	9737.9	9979.4	10394.4	10823.0	11289.5	11370.9	11501.1	11110.5	9759.6
17.5°	9008.3	9078.8	9095.1	9360.9	9743.4	10299.4	10893.5	11037.2	11297.6	11026.4	9577.9
20°	8612.3	8650.2	8685.5	8834.7	9179.2	9765.1	10521.9	10719.9	11107.8	10950.4	9374.5
22.5°	8495.6	8520.0	8490.2	8536.3	8780.4	9301.2	10117.7	10380.8	10926.0	10879.9	9209.0
25°	8585.1	8609.5	8539.0	8484.8	8568.9	8924.2	9727.1	10047.2	10779.6	10866.4	9084.2
27.5°	8802.1	8848.2	8750.6	8652.9	8604.1	8720.8	9420.6	9792.2	10679.2	10931.5	9027.3
30°	9141.2	9168.3	9095.1	8975.7	8864.5	8747.9	9260.5	9615.9	10652.1	11083.4	9021.8
32.5°	9510.1	9567.1	9526.4	9447.7	9303.9	9027.3	9306.7	9621.3	10717.2	11303.1	9089.7
35°	9965.8	10030.9	10068.9	10052.6	9868.1	9523.7	9599.6	9865.4	10890.8	11707.2	9274.1
37.5°	10413.4	10470.3	10684.6	10757.9	10595.1	10269.6	10169.2	10345.6	11273.2	12236.2	9607.7
40°	10926.0	11002.0	11303.1	11582.5	11503.8	11162.0	10977.6	11124.0	11859.1	13033.7	10239.8
42.5°	11417.0	11552.6	12011.0	12504.7	12578.0	12195.5	12073.4	12122.3	12727.1	14181.1	11121.3
45°	12114.1	12241.6	12832.9	13502.9	13847.4	13549.0	13424.3	13416.1	13917.9	15795.0	12550.8
47.5°	13120.5	13234.4	13931.5	14593.4	15206.4	15247.1	15011.1	15092.5	15415.3	17682.9	14303.1
50°	14354.7	14623.2	15081.6	15770.6	16589.8	17251.6	17324.9	17216.4	17493.0	19869.2	16408.0
52.5°	16147.6	16250.7	16671.1	17238.1	18198.3	19321.3	20192.0	20042.8	19956.0	21952.4	18534.6
55°	17484.9	17623.2	18277.0	19055.5	20463.3	21944.3	23832.2	23883.7	22787.9	23954.3	20615.2
57.5°	17080.7	17292.3	18282.4	19847.5	22942.5	25649.6	27054.7	27089.9	25408.2	25899.1	22964.2
60°	15005.7	15106.0	16524.7	18613.3	23154.1	29664.1	31625.3	31340.5	28074.6	28074.6	25039.3
62.5°	10641.2	10798.5	11948.7	15021.9	20910.8	31058.4	37099.1	36510.5	31747.3	30155.1	26276.2
65°	6800.3	6648.4	7410.6	9483.0	15578.0	28999.6	41865.0	41900.3	35203.1	30987.8	25600.8
67°	4925.9	4866.3	5086.0	6482.9	10562.6	24377.4	41965.4	43823.5	37188.6	30461.6	23441.6
67.5°	4505.5	4551.6	4711.6	5848.2	9596.9	22183.0	41509.7	43709.5	37636.2	30144.2	22660.4
70°	3415.1	3336.4	3510.0	4136.6	5753.3	13993.9	35707.6	40088.3	37080.1	26995.0	18106.1
72.5°	2511.8	2503.7	2745.1	3382.5	4429.5	7454.0	26805.1	32143.4	30293.4	20555.5	11400.7
75°	1695.3	1771.3	2156.5	2826.4	4014.5	4833.7	18274.2	23319.5	21030.2	11672.0	4660.1
77.5°	965.7	971.1	1388.8	2270.4	3604.9	3889.8	10828.4	14856.5	11132.2	3881.6	1383.4
80°	417.7	458.4	689.0	1649.2	2989.2	3444.9	6209.0	8164.7	4502.8	821.9	447.6
82.5°	154.6	181.7	303.8	1014.5	2180.9	2837.3	3751.4	3897.9	1527.1	290.2	279.4
85°	0.0	5.4	111.2	474.7	1136.5	1266.7	2506.4	2311.1	675.4	138.3	181.7
87.5°	0.0	0.0	0.0	48.8	149.2	472.0	778.5	868.0	162.8	48.8	43.4
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°	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6	10760.6
2.5°	10679.2	10502.9	10060.7	9618.6	9290.4	9016.4	8604.1	8379.0	8259.6	8083.3	8094.2
5°	10410.7	10052.6	9274.1	8468.5	7817.5	7182.8	6423.2	6116.7	5859.0	5712.6	5614.9
7.5°	10011.9	9483.0	8330.1	7256.0	6255.1	5145.7	4312.9	3756.8	3382.5	3244.2	3111.3
10°	9575.2	8872.7	7372.6	5883.5	4494.6	3350.0	2644.7	2134.8	1953.0	1784.8	1801.1
12.5°	9171.0	8316.6	6493.8	4643.8	3149.2	2129.3	1660.1	1451.2	1391.5	1372.5	1372.5
15°	8840.1	7784.9	5549.8	3491.0	2159.2	1529.9	1329.1	1272.2	1250.5	1245.0	1245.0
17.5°	8487.5	7280.4	4698.1	2579.6	1570.5	1280.3	1212.5	1174.5	1166.4	1161.0	1161.0
20°	8172.8	6773.2	3889.8	1920.5	1269.5	1152.8	1109.4	1085.0	1076.9	1071.4	1074.2
22.5°	7874.4	6322.9	3130.2	1451.2	1117.6	1049.7	1006.3	981.9	965.7	952.1	954.8
25°	7608.6	5888.9	2517.2	1188.1	1006.3	946.7	903.3	868.0	832.7	816.5	813.8
27.5°	7421.5	5509.1	1961.2	1017.2	906.0	840.9	786.6	743.2	697.1	672.7	667.3
30°	7266.8	5124.0	1551.6	897.8	805.6	743.2	675.4	613.0	564.2	539.8	528.9
32.5°	7166.5	4757.8	1223.3	800.2	721.5	645.6	569.6	507.2	453.0	428.6	423.2
35°	7150.2	4451.2	1000.9	718.8	645.6	564.2	485.5	417.7	371.6	347.2	341.8
37.5°	7266.8	4215.3	838.2	653.7	583.2	493.7	406.9	344.5	303.8	284.8	282.1
40°	7578.8	4066.1	727.0	599.5	526.2	428.6	347.2	293.0	252.3	233.3	233.3
42.5°	8172.8	4071.5	653.7	547.9	469.3	366.2	295.7	244.1	208.9	192.6	187.2
45°	9100.5	4255.9	591.3	496.4	415.0	317.4	252.3	200.7	165.5	151.9	151.9
47.5°	10342.8	4622.1	537.1	444.9	366.2	271.3	214.3	162.8	132.9	119.4	119.4
50°	11967.6	5210.8	491.0	401.5	325.5	233.3	173.6	132.9	103.1	92.2	89.5
52.5°	13665.7	5937.7	436.7	363.5	279.4	198.0	141.1	103.1	78.7	70.5	67.8
55°	15540.0	6648.4	385.2	325.5	227.9	165.5	111.2	81.4	57.0	48.8	48.8
57.5°	17430.7	7345.5	322.8	271.3	179.0	122.1	86.8	59.7	38.0	29.8	29.8
60°	19031.0	7570.6	274.0	219.7	135.6	86.8	62.4	38.0	21.7	13.6	13.6
62.5°	19250.8	6811.1	230.6	168.2	97.7	59.7	32.6	21.7	8.1	5.4	5.4
65°	18057.2	5533.5	192.6	127.5	65.1	29.8	13.6	8.1	2.7	0.0	0.0
67°	16180.2	4486.5	157.3	94.9	46.1	19.0	8.1	2.7	0.0	0.0	0.0
67.5°	15700.1	4277.6	151.9	89.5	40.7	16.3	5.4	2.7	0.0	0.0	0.0
70°	12320.3	3203.5	108.5	54.3	24.4	10.9	0.0	0.0	0.0	0.0	0.0
72.5°	7657.4	1812.0	78.7	32.6	16.3	5.4	0.0	0.0	0.0	0.0	0.0
75°	2894.3	634.7	54.3	21.7	10.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	900.6	241.4	32.6	16.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	303.8	92.2	21.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	187.2	38.0	13.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	116.6	16.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	5.4	2.7	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)