

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: P457883

Luminaire Tested: **GALN-SA9B-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457883  
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-SA9B-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 38862 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

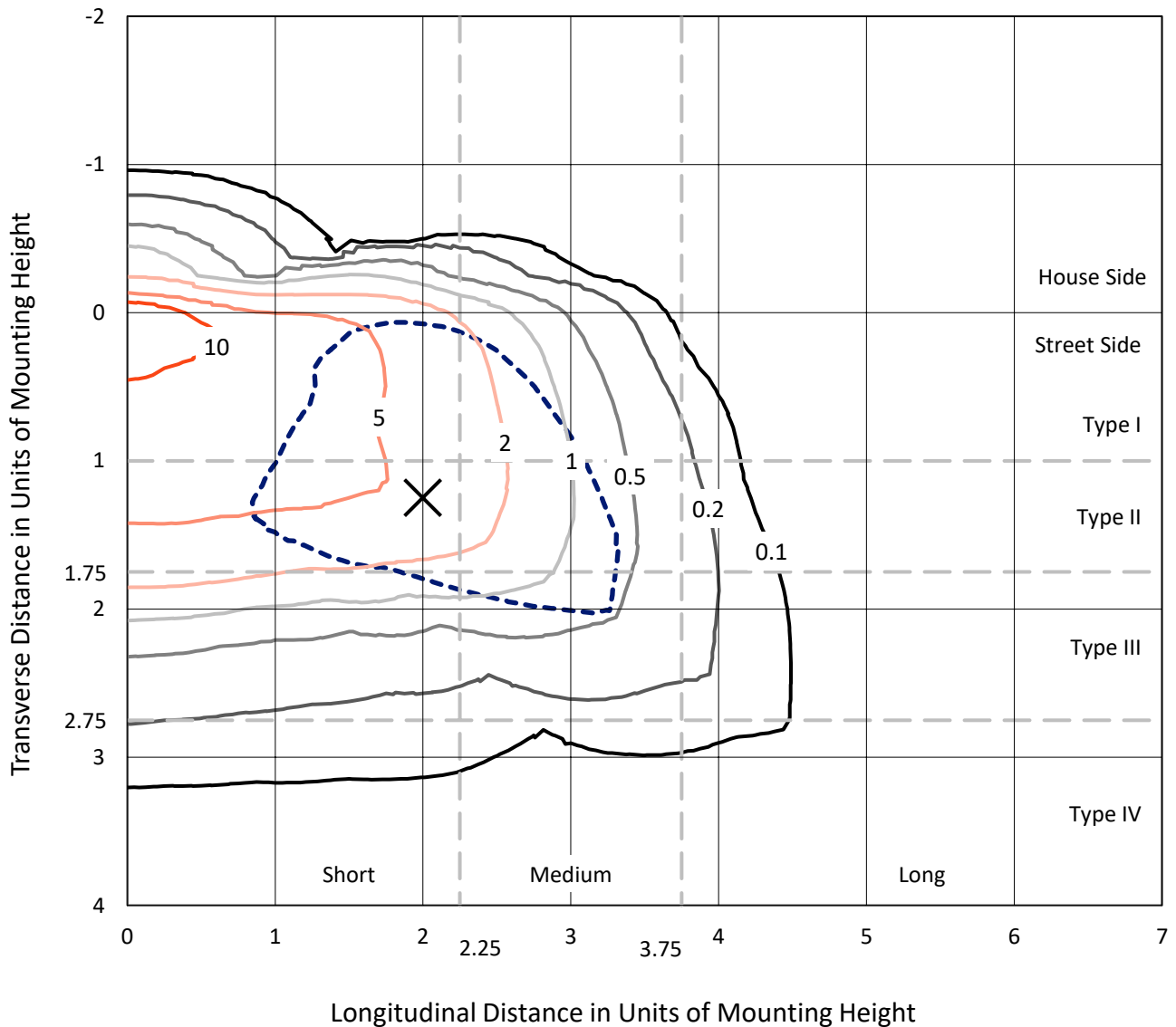
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

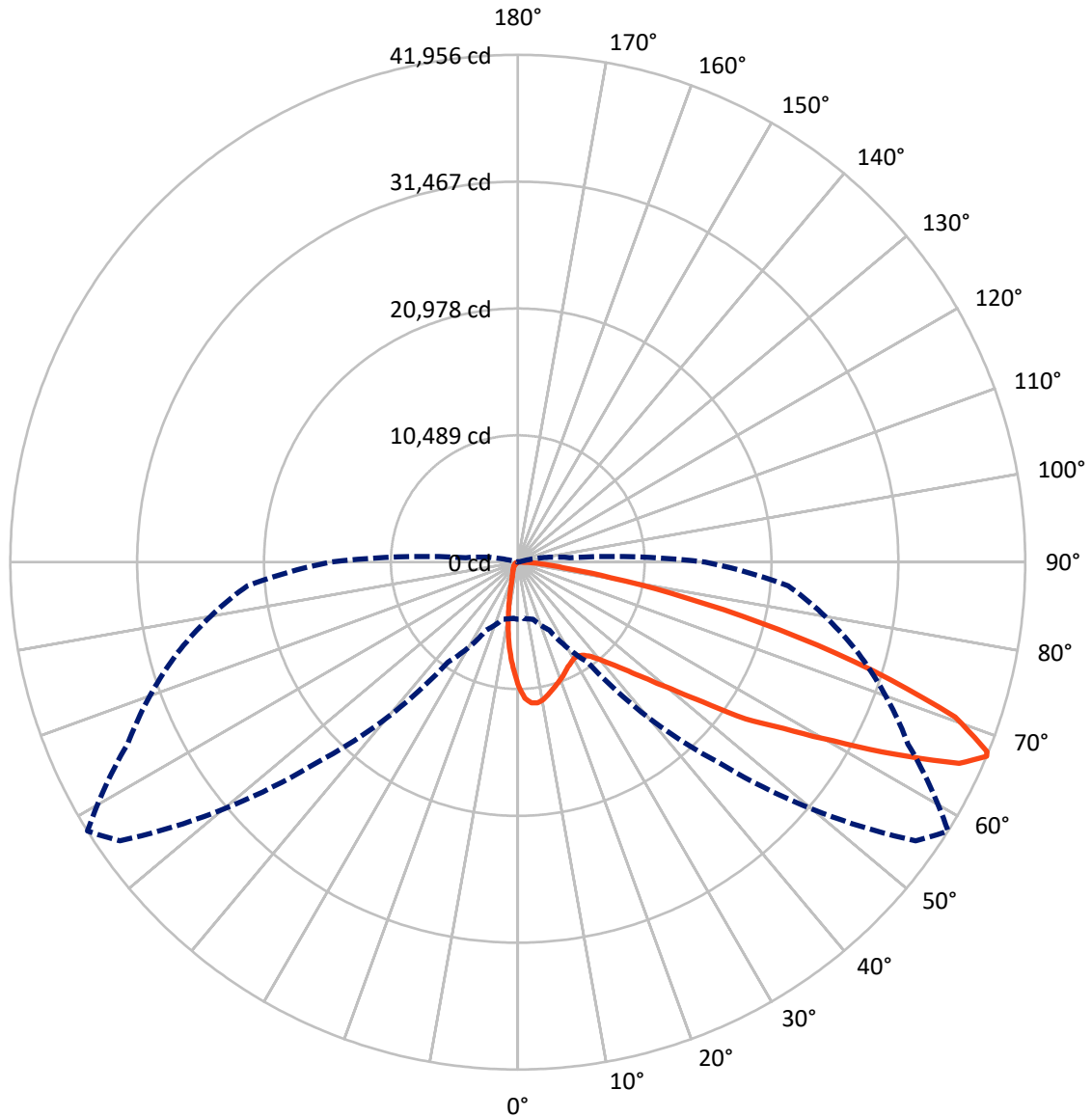
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P457883  
CATALOG NUMBER: GALN-SA9B-730-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P457883

CATALOG NUMBER: GALN-SA9B-730-U-SL3-HSS

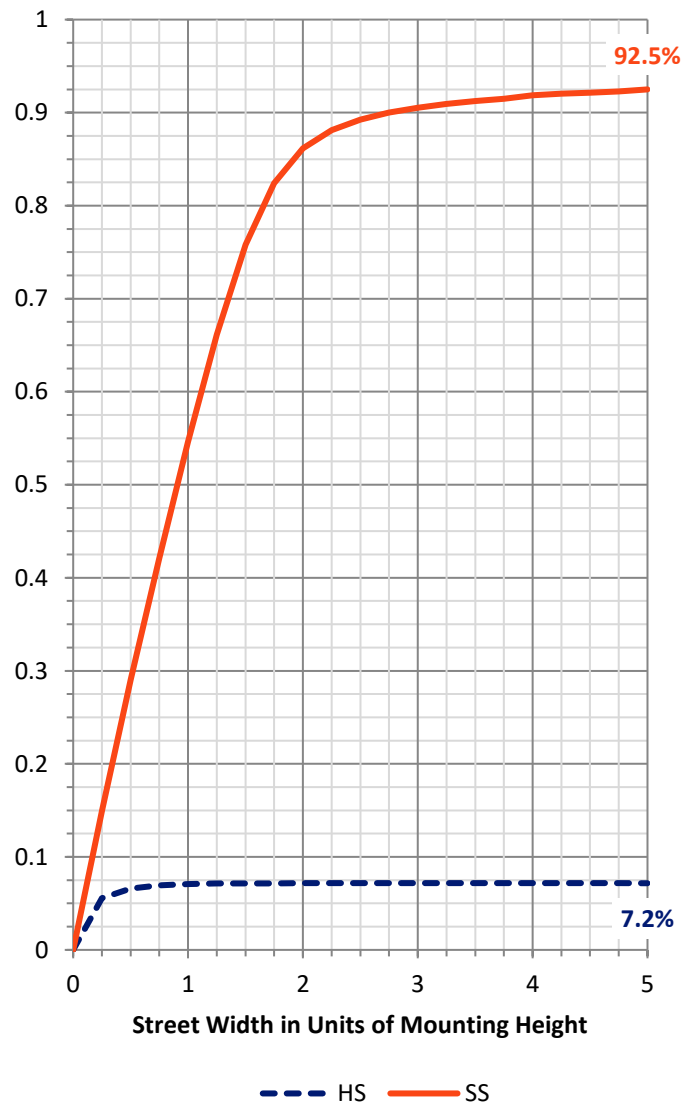
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2804.5	0.0	2804.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	36057.5	0.0	36057.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	38862.0	0.0	38862.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.0	2.2
10°-20°	1805.5	4.6
20°-30°	2446.6	6.3
30°-40°	3393.3	8.7
40°-50°	5411.9	13.9
50°-60°	9354.9	24.1
60°-70°	10686.2	27.5
70°-80°	4455.2	11.5
80°-90°	472.4	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°	38862.0	100.0
0°-180°	38862.0	100.0



REPORT NUMBER: P457883

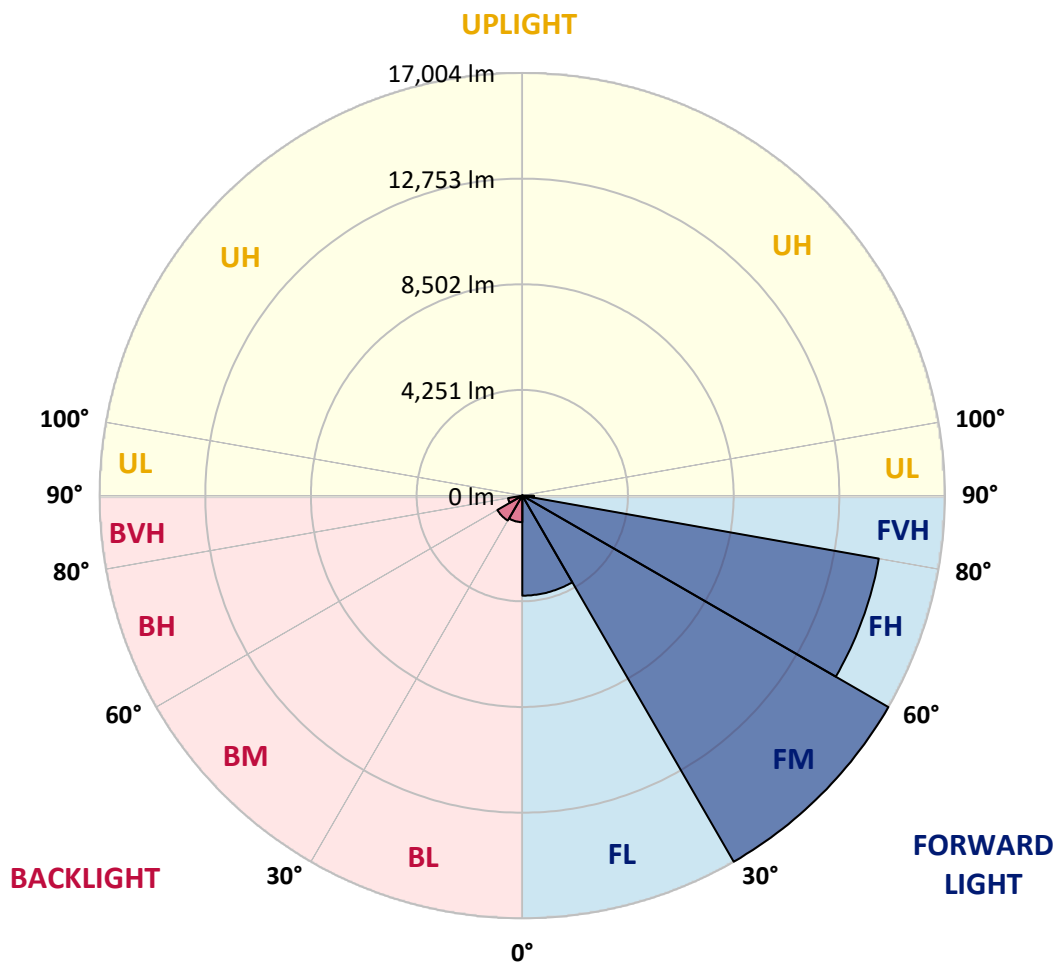
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4023.2	10.4			
FM (30°-60°)	17003.7	43.8			
FH (60°-80°)	14561.6	37.5			G5
FVH (80°-90°)	469.0	1.2			G3/500
BL (0°-30°)	1064.9	2.7	B3/2500		
BM (30°-60°)	1156.4	3.0	B2/2500		
BH (60°-80°)	579.8	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.4	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°	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0
2.5°	11956.2	11974.4	11906.9	11852.3	11712.1	11561.5	11361.5	11255.0	11073.2	10759.0	10411.0
5°	12236.7	12260.0	12249.6	12236.7	12182.1	12036.7	11782.2	11688.7	11421.2	10909.6	10281.2
7.5°	11613.4	11699.1	11709.5	11810.8	11906.9	11919.8	11823.8	11753.6	11506.9	10907.0	10050.1
10°	10787.6	10844.7	10927.8	11044.7	11275.8	11468.0	11561.5	11551.1	11408.2	10826.5	9780.0
12.5°	9954.0	9985.1	10112.4	10312.3	10595.4	10922.6	11171.9	11221.3	11223.9	10730.5	9554.0
15°	9237.2	9224.2	9322.9	9554.0	9951.4	10361.7	10808.4	10886.3	11010.9	10637.0	9343.7
17.5°	8624.4	8691.9	8707.5	8962.0	9328.1	9860.5	10429.2	10566.8	10816.1	10556.5	9169.7
20°	8245.2	8281.6	8315.3	8458.2	8788.0	9348.9	10073.4	10263.0	10634.4	10483.7	8974.9
22.5°	8133.5	8156.9	8128.3	8172.5	8406.2	8904.8	9686.5	9938.4	10460.4	10416.2	8816.5
25°	8219.2	8242.6	8175.1	8123.1	8203.7	8543.8	9312.5	9619.0	10320.1	10403.2	8697.1
27.5°	8427.0	8471.1	8377.6	8284.2	8237.4	8349.1	9019.1	9374.9	10224.1	10465.6	8642.5
30°	8751.6	8777.6	8707.5	8593.2	8486.7	8375.0	8865.9	9206.1	10198.1	10611.0	8637.3
32.5°	9104.8	9159.3	9120.4	9045.1	8907.4	8642.5	8910.0	9211.3	10260.4	10821.3	8702.3
35°	9541.1	9603.4	9639.7	9624.2	9447.6	9117.8	9190.5	9445.0	10426.6	11208.3	8878.9
37.5°	9969.6	10024.1	10229.2	10299.4	10143.5	9831.9	9735.8	9904.6	10792.8	11714.7	9198.3
40°	10460.4	10533.1	10821.3	11088.8	11013.5	10686.3	10509.7	10649.9	11353.7	12478.2	9803.4
42.5°	10930.4	11060.3	11499.1	11971.8	12041.9	11675.7	11558.9	11605.6	12184.7	13576.7	10647.3
45°	11597.8	11719.9	12286.0	12927.4	13257.2	12971.6	12852.1	12844.3	13324.8	15121.8	12015.9
47.5°	12561.3	12670.3	13337.8	13971.4	14558.3	14597.3	14371.3	14449.2	14758.3	16929.3	13693.5
50°	13742.9	14000.0	14438.8	15098.5	15882.7	16516.4	16586.5	16482.6	16747.5	19022.4	15708.7
52.5°	15459.4	15558.1	15960.6	16503.4	17422.7	18497.8	19331.4	19188.6	19105.5	21016.8	17744.7
55°	16739.7	16872.2	17498.0	18243.3	19591.1	21009.0	22816.5	22865.8	21816.7	22933.4	19736.5
57.5°	16352.8	16555.3	17503.2	19001.6	21964.7	24556.4	25901.6	25935.4	24325.3	24795.3	21985.5
60°	14366.1	14462.2	15820.4	17820.0	22167.3	28399.9	30277.4	30004.7	26878.1	26878.1	23972.1
62.5°	10187.7	10338.3	11439.4	14381.7	20019.6	29734.7	35518.0	34954.5	30394.3	28869.9	25156.3
65°	6510.5	6365.0	7094.8	9078.8	14914.1	27763.6	40080.8	40114.5	33702.8	29667.1	24509.7
67°	4716.0	4658.9	4869.2	6206.6	10112.4	23338.5	40176.9	41955.7	35603.7	29163.3	22442.5
67.5°	4313.5	4357.6	4510.8	5598.9	9187.9	21237.6	39740.6	41846.7	36032.2	28859.5	21694.6
70°	3269.5	3194.2	3360.4	3960.3	5508.1	13397.5	34185.8	38379.8	35499.8	25844.5	17334.4
72.5°	2404.7	2397.0	2628.1	3238.4	4240.8	7136.3	25662.7	30773.4	29002.3	19679.4	10914.8
75°	1623.1	1695.8	2064.5	2706.0	3843.4	4627.7	17495.4	22325.7	20133.9	11174.5	4461.5
77.5°	924.5	929.7	1329.6	2173.6	3451.3	3724.0	10366.9	14223.3	10657.7	3716.2	1324.4
80°	399.9	438.9	659.6	1578.9	2861.8	3298.1	5944.3	7816.7	4310.9	786.9	428.5
82.5°	148.0	174.0	290.9	971.2	2087.9	2716.4	3591.5	3731.8	1462.1	277.9	267.5
85°	0.0	5.2	106.5	454.5	1088.1	1212.8	2399.5	2212.6	646.6	132.4	174.0
87.5°	0.0	0.0	0.0	46.7	142.8	451.9	745.3	831.0	155.8	46.7	41.6
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°	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0	10302.0
2.5°	10224.1	10055.3	9632.0	9208.7	8894.4	8632.1	8237.4	8021.9	7907.6	7738.8	7749.2
5°	9967.0	9624.2	8878.9	8107.6	7484.3	6876.6	6149.5	5856.0	5609.3	5469.1	5375.6
7.5°	9585.2	9078.8	7975.1	6946.7	5988.5	4926.3	4129.1	3596.7	3238.4	3105.9	2978.7
10°	9167.1	8494.5	7058.4	5632.7	4303.1	3207.2	2532.0	2043.8	1869.8	1708.8	1724.4
12.5°	8780.2	7962.1	6217.0	4445.9	3015.0	2038.6	1589.3	1389.3	1332.2	1314.0	1314.0
15°	8463.3	7453.1	5313.3	3342.2	2067.1	1464.7	1272.5	1218.0	1197.2	1192.0	1192.0
17.5°	8125.7	6970.1	4497.9	2469.7	1503.6	1225.7	1160.8	1124.5	1116.7	1111.5	1111.5
20°	7824.5	6484.5	3724.0	1838.6	1215.4	1103.7	1062.1	1038.8	1031.0	1025.8	1028.4
22.5°	7538.8	6053.4	2996.8	1389.3	1069.9	1005.0	963.5	940.1	924.5	911.5	914.1
25°	7284.3	5637.9	2409.9	1137.4	963.5	906.3	864.8	831.0	797.3	781.7	779.1
27.5°	7105.2	5274.3	1877.6	973.8	867.4	805.0	753.1	711.6	667.4	644.0	638.8
30°	6957.1	4905.6	1485.4	859.6	771.3	711.6	646.6	586.9	540.2	516.8	506.4
32.5°	6861.0	4555.0	1171.2	766.1	690.8	618.1	545.4	485.6	433.7	410.3	405.1
35°	6845.5	4261.5	958.3	688.2	618.1	540.2	464.8	399.9	355.8	332.4	327.2
37.5°	6957.1	4035.6	802.4	625.9	558.3	472.6	389.5	329.8	290.9	272.7	270.1
40°	7255.8	3892.8	696.0	573.9	503.8	410.3	332.4	280.5	241.5	223.3	223.3
42.5°	7824.5	3898.0	625.9	524.6	449.3	350.6	283.1	233.7	200.0	184.4	179.2
45°	8712.6	4074.6	566.1	475.2	397.3	303.8	241.5	192.2	158.4	145.4	145.4
47.5°	9902.0	4425.1	514.2	425.9	350.6	259.7	205.2	155.8	127.2	114.3	114.3
50°	11457.6	4988.7	470.0	384.3	311.6	223.3	166.2	127.2	98.7	88.3	85.7
52.5°	13083.3	5684.6	418.1	348.0	267.5	189.6	135.0	98.7	75.3	67.5	64.9
55°	14877.7	6365.0	368.8	311.6	218.1	158.4	106.5	77.9	54.5	46.7	46.7
57.5°	16687.8	7032.4	309.0	259.7	171.4	116.9	83.1	57.1	36.4	28.6	28.6
60°	18220.0	7248.0	262.3	210.4	129.8	83.1	59.7	36.4	20.8	13.0	13.0
62.5°	18430.3	6520.9	220.7	161.0	93.5	57.1	31.2	20.8	7.8	5.2	5.2
65°	17287.7	5297.7	184.4	122.1	62.3	28.6	13.0	7.8	2.6	0.0	0.0
67°	15490.6	4295.3	150.6	90.9	44.1	18.2	7.8	2.6	0.0	0.0	0.0
67.5°	15030.9	4095.3	145.4	85.7	39.0	15.6	5.2	2.6	0.0	0.0	0.0
70°	11795.2	3067.0	103.9	51.9	23.4	10.4	0.0	0.0	0.0	0.0	0.0
72.5°	7331.1	1734.7	75.3	31.2	15.6	5.2	0.0	0.0	0.0	0.0	0.0
75°	2770.9	607.7	51.9	20.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	862.2	231.1	31.2	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	290.9	88.3	20.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	179.2	36.4	13.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	111.7	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.8	5.2	2.6	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	0.0

(END OF REPORT)