

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: P269568

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL4-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33638.3 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 445  
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: 25 FT

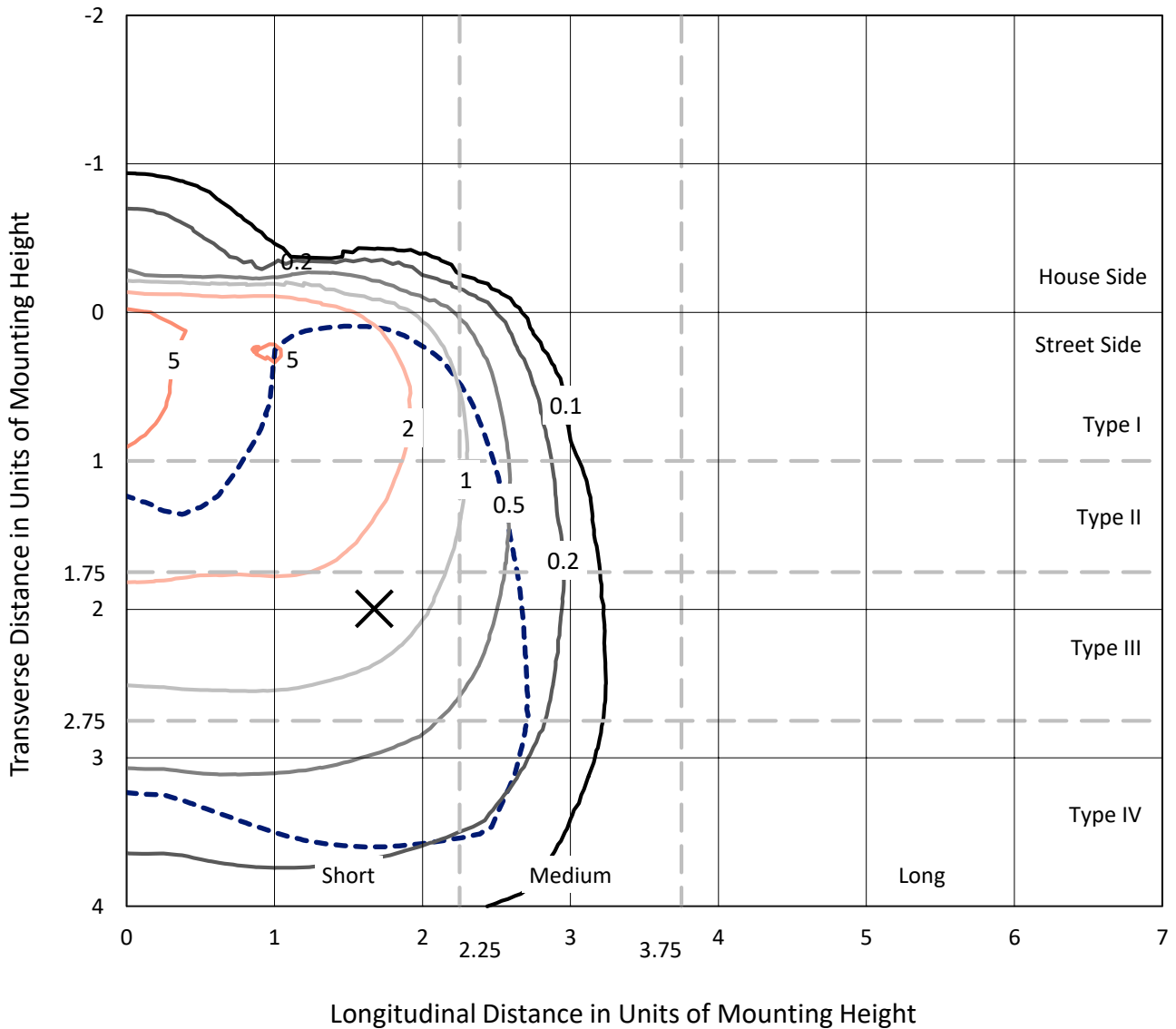


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

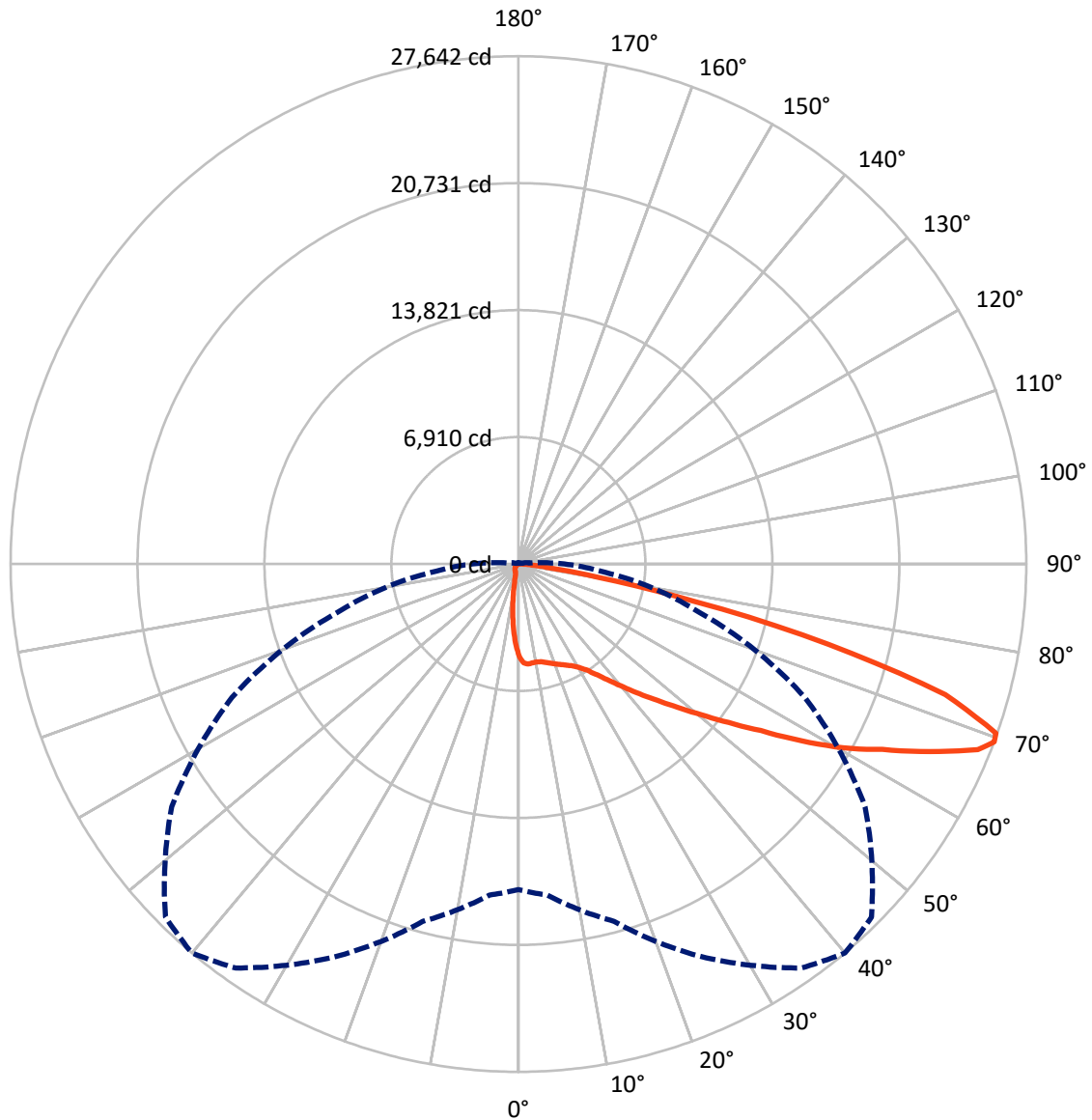


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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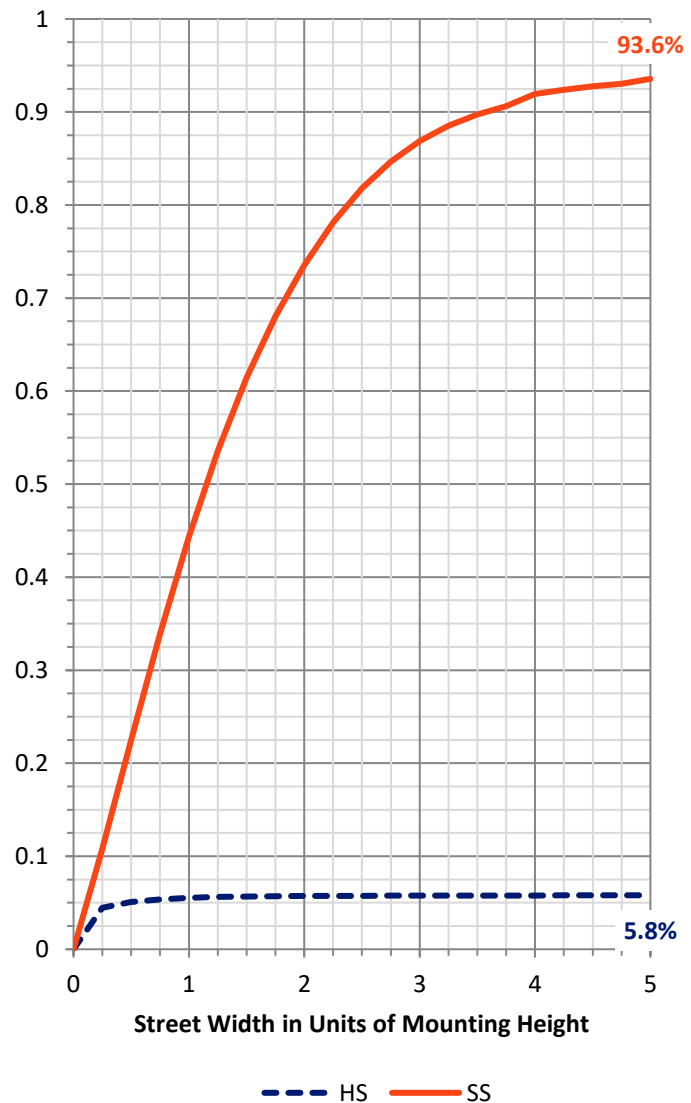
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1968.0	0.0	1968.0
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	31670.3	0.0	31670.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	33638.3	0.0	33638.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.5	1.2
10°-20°	1002.1	3.0
20°-30°	1687.9	5.0
30°-40°	2763.1	8.2
40°-50°	4784.2	14.2
50°-60°	7535.6	22.4
60°-70°	9841.1	29.3
70°-80°	5068.6	15.1
80°-90°	548.3	1.6
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°	33638.3	100.0
0°-180°	33638.3	100.0



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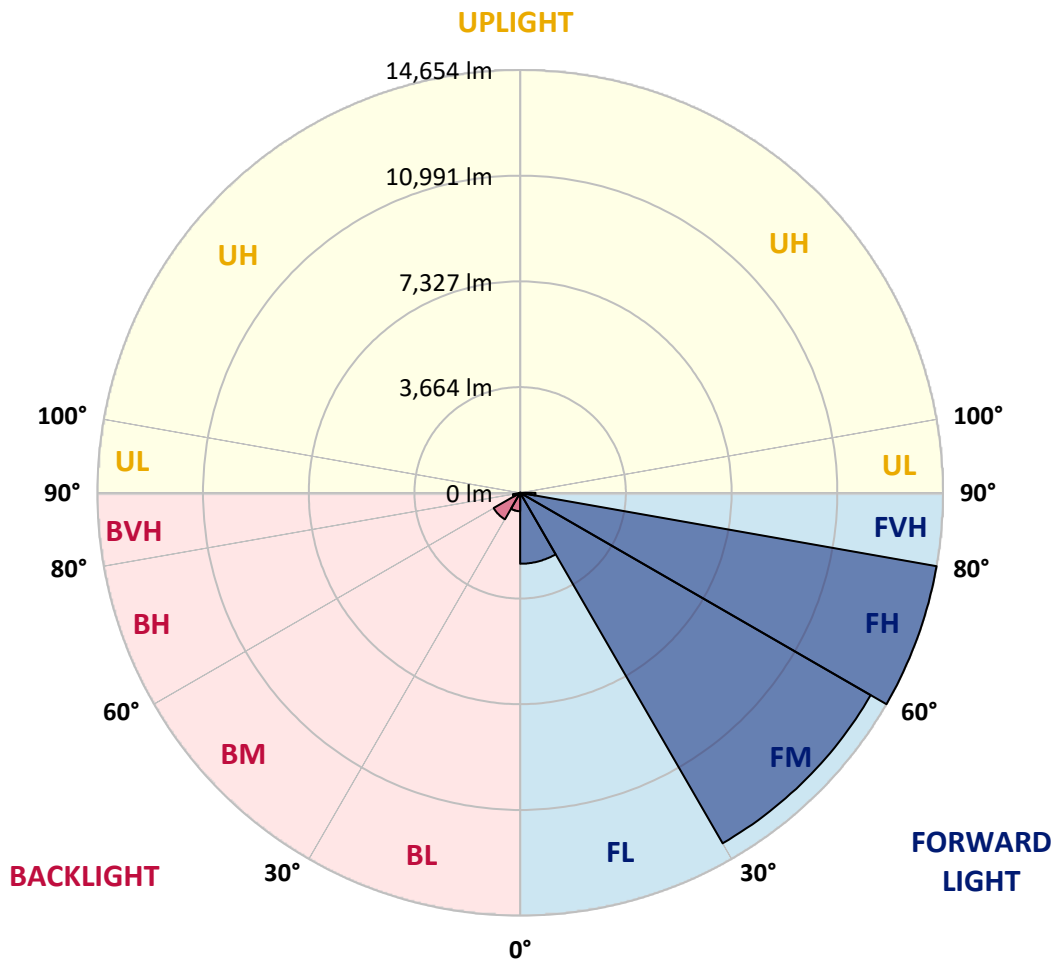
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2459.9	7.3			
FM	(30°-60°)	14025.1	41.7			
FH	(60°-80°)	14654.2	43.6			G5
FVH	(80°-90°)	531.1	1.6			G4/750
BL	(0°-30°)	637.5	1.9	B2/1000		
BM	(30°-60°)	1057.8	3.1	B2/2500		
BH	(60°-80°)	255.5	0.8	B1/500		G1/500
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7
2.5°	5518.3	5488.3	5470.3	5446.2	5416.2	5390.2	5380.2	5306.1	5236.0	5139.8	5029.7
5°	5620.4	5610.5	5578.4	5546.3	5510.4	5470.3	5448.2	5360.1	5259.9	5119.8	4927.7
7.5°	5630.4	5618.4	5578.4	5534.3	5484.2	5436.3	5398.2	5310.2	5218.0	5075.9	4841.5
10°	5614.3	5600.5	5570.4	5522.3	5460.3	5414.2	5376.1	5292.1	5213.9	5085.8	4825.5
12.5°	5596.4	5582.3	5568.4	5544.2	5490.4	5458.2	5426.2	5346.2	5276.0	5167.9	4883.5
15°	5614.3	5606.4	5622.4	5612.4	5582.3	5554.3	5522.3	5450.2	5386.1	5296.0	4989.6
17.5°	5690.6	5690.6	5740.6	5746.5	5718.5	5678.5	5632.5	5560.4	5506.3	5430.3	5115.8
20°	5868.6	5862.7	5926.7	5938.8	5870.8	5808.6	5740.6	5652.4	5610.5	5562.3	5240.0
22.5°	6175.0	6147.0	6185.1	6173.1	6038.9	5942.7	5858.7	5750.6	5728.5	5706.6	5378.2
25°	6573.4	6557.4	6583.5	6465.5	6229.0	6099.0	5998.8	5876.7	5876.7	5898.7	5534.3
27.5°	7152.1	7092.1	7003.9	6795.8	6441.3	6275.2	6167.0	6036.9	6070.9	6153.0	5740.6
30°	7744.8	7678.7	7476.6	7156.2	6699.6	6525.5	6399.3	6263.2	6343.2	6493.4	6016.8
32.5°	8329.5	8255.5	7969.1	7564.6	7070.1	6895.8	6773.7	6623.6	6757.7	7010.1	6421.4
35°	8896.2	8830.1	8499.8	8023.1	7562.7	7418.5	7306.4	7176.2	7348.3	7700.8	6992.0
37.5°	9532.9	9460.8	9058.4	8541.8	8161.3	8057.2	7975.2	7845.0	8145.3	8661.8	7786.9
40°	10315.7	10193.6	9651.0	9136.4	8854.1	8804.1	8748.0	8730.0	9196.5	9911.3	8846.1
42.5°	11212.9	11012.6	10271.7	9763.1	9615.0	9651.0	9636.9	9717.1	10512.0	11465.1	10135.5
45°	12109.8	11851.5	10962.6	10431.8	10451.9	10578.1	10656.1	10976.5	12159.8	13247.1	11523.2
47.5°	12870.6	12616.3	11625.2	11154.8	11395.0	11643.3	11855.6	12462.2	13853.8	15001.2	12602.4
50°	13521.5	13281.1	12328.1	11949.7	12490.3	12890.7	13235.1	14134.1	15676.0	16336.7	13359.2
52.5°	14054.1	13893.8	13057.0	12860.7	13741.7	14328.3	14833.0	15910.2	17289.8	17421.9	13948.0
55°	14572.7	14458.5	13839.7	13943.9	15211.4	16010.3	16648.9	17794.3	18679.4	18327.0	14512.6
57.5°	15169.3	15065.1	14732.8	15317.4	17143.6	18148.6	18845.5	19464.3	19902.7	19251.9	15045.2
60°	15778.0	15718.0	15726.0	16843.2	19362.1	20327.1	20711.6	20871.8	21104.2	20123.0	15075.1
62.5°	16358.7	16472.8	16861.2	18541.1	21486.5	22227.4	22421.5	22579.7	22307.5	20261.1	13928.0
65°	17341.8	17528.0	18455.0	20813.8	23823.2	24616.2	24816.3	24273.7	22497.7	18475.1	11329.0
67.5°	17822.4	18162.7	19816.6	22932.2	26089.7	26970.8	26896.7	24383.9	20189.0	14088.1	7270.3
69°	17722.2	18084.7	20130.9	23580.9	26842.7	27641.6	27171.0	23036.2	17199.7	10205.6	4463.0
70°	17325.8	17692.2	19968.9	23557.0	26938.7	27571.5	26662.5	21372.5	14542.7	7462.5	2791.3
72.5°	14468.6	14784.8	17728.2	21292.3	24816.3	24301.8	22305.5	14806.9	7086.1	2032.3	628.8
75°	8906.2	9082.4	12720.4	16040.3	18743.3	17421.9	14861.0	7366.5	2112.5	574.6	348.5
77.5°	4705.4	4785.5	6963.9	9454.8	11881.5	9831.2	7616.6	2873.3	973.1	360.4	252.2
80°	2781.2	2841.2	3750.2	4323.0	5141.9	4294.8	3045.4	1764.0	696.7	226.3	224.2
82.5°	1591.8	1629.9	2719.1	2402.7	2026.2	1730.0	1515.7	1671.9	418.5	152.2	232.2
85°	584.6	592.7	1529.8	1828.1	1205.3	716.8	752.9	1385.5	112.1	96.1	182.1
87.5°	272.2	266.3	786.8	1119.3	704.8	454.5	586.7	304.3	44.0	62.1	50.0
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°	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7	5025.7
2.5°	4965.7	4891.6	4757.5	4619.3	4479.0	4371.1	4264.9	4180.8	4152.8	4100.8	4104.6
5°	4813.5	4677.4	4397.1	4112.7	3816.4	3572.1	3341.9	3155.6	3065.5	2973.4	2973.4
7.5°	4681.3	4483.1	4044.6	3582.1	3103.6	2701.1	2338.6	2066.3	1916.2	1796.0	1794.1
10°	4631.3	4363.0	3750.2	3087.6	2420.8	1872.2	1441.6	1165.3	1023.2	931.1	927.1
12.5°	4653.3	4320.9	3524.1	2631.0	1794.1	1203.4	835.0	656.8	596.7	568.6	568.6
15°	4717.4	4308.9	3297.8	2184.5	1267.5	752.9	554.7	506.6	502.6	502.6	502.6
17.5°	4795.5	4312.9	3065.5	1750.0	863.0	538.7	478.5	472.6	476.6	476.6	476.6
20°	4875.6	4314.9	2815.2	1347.5	608.7	468.6	450.5	448.6	452.6	452.6	454.5
22.5°	4973.6	4324.9	2564.9	1007.2	502.6	442.5	428.5	428.5	430.5	430.5	428.5
25°	5085.8	4344.9	2304.6	746.9	458.6	424.4	412.5	410.4	412.5	410.4	408.5
27.5°	5226.0	4372.9	2014.3	584.6	438.6	406.5	396.4	396.4	394.4	392.5	390.5
30°	5402.1	4405.0	1687.9	496.6	418.5	390.5	380.4	378.5	376.4	372.4	372.4
32.5°	5670.6	4475.0	1365.6	450.5	396.4	368.5	360.4	360.4	356.4	352.4	350.3
35°	6083.0	4613.2	1077.2	422.6	372.4	344.4	334.3	334.3	330.3	328.4	326.4
37.5°	6653.6	4823.4	837.0	396.4	348.5	318.4	308.4	306.3	302.3	298.3	296.4
40°	7412.5	5083.8	658.7	372.4	324.4	292.3	284.4	280.4	272.2	266.3	266.3
42.5°	8365.6	5380.2	534.6	346.3	296.4	268.4	262.2	256.2	242.3	236.3	234.3
45°	9362.7	5646.4	452.6	316.4	268.4	244.2	240.2	230.2	212.2	206.3	206.3
47.5°	10081.5	5708.5	398.5	288.4	242.3	218.3	216.2	198.3	182.1	178.3	176.2
50°	10530.0	5586.4	354.4	260.2	218.3	194.3	188.3	166.1	156.1	152.2	150.1
52.5°	10832.4	5368.1	318.4	236.3	196.2	172.1	158.2	142.1	134.1	130.2	130.2
55°	11074.7	5059.8	282.2	214.2	178.3	154.1	134.1	122.1	114.2	110.1	110.1
57.5°	11142.8	4641.4	246.2	196.2	160.2	136.2	114.2	106.1	96.1	94.1	94.1
60°	10648.1	3886.4	218.3	174.2	144.2	118.1	100.2	90.1	80.0	78.2	76.0
62.5°	9344.7	3007.4	192.1	154.1	126.1	102.0	86.1	74.1	66.0	66.0	66.0
65°	7128.1	2016.2	168.3	134.1	110.1	86.1	74.1	60.0	56.1	56.1	58.1
67.5°	4266.9	1097.3	144.2	114.2	94.1	72.0	62.1	52.0	50.0	52.0	52.0
69°	2500.8	644.8	130.2	102.0	82.0	64.0	54.1	46.1	50.0	52.0	52.0
70°	1543.7	434.5	120.2	92.0	74.1	58.1	50.0	44.0	48.1	50.0	50.0
72.5°	430.5	224.2	96.1	72.0	60.0	48.1	40.1	40.1	46.1	48.1	48.1
75°	280.4	166.1	74.1	54.1	46.1	38.1	34.0	38.1	44.0	46.1	46.1
77.5°	232.2	136.2	60.0	44.0	38.1	36.0	32.0	34.0	40.1	42.0	42.0
80°	212.2	96.1	48.1	40.1	34.0	32.0	30.1	28.0	36.0	38.1	38.1
82.5°	202.2	76.0	42.0	36.0	32.0	28.0	26.1	28.0	32.0	34.0	36.0
85°	126.1	50.0	38.1	34.0	28.0	26.1	26.1	26.1	30.1	32.0	32.0
87.5°	46.1	40.1	34.0	28.0	24.1	24.1	24.1	24.1	26.1	30.1	30.1
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)