

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: P269168

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269168  
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-03-LED-E1-SL4-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 12814.2 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

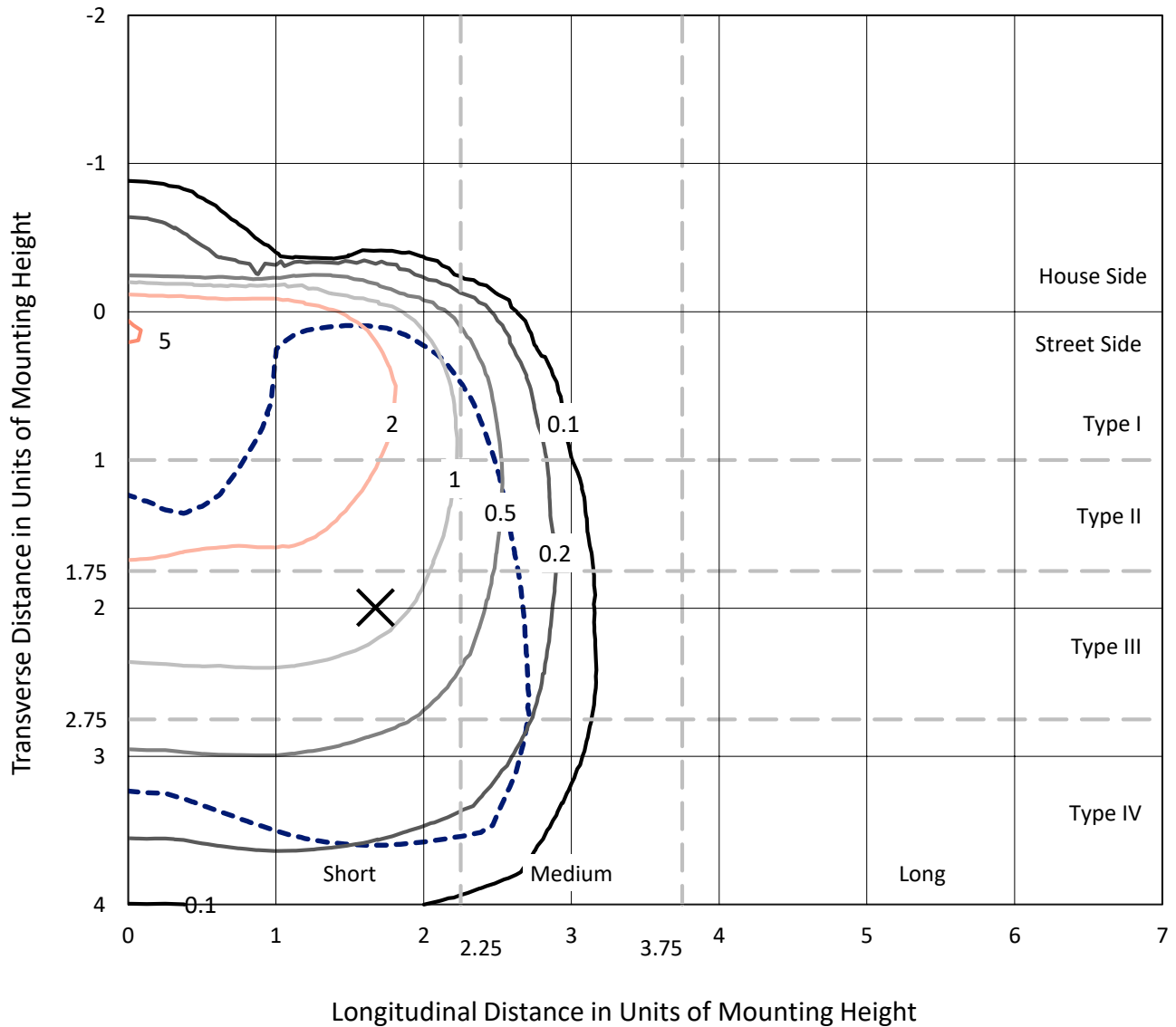
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

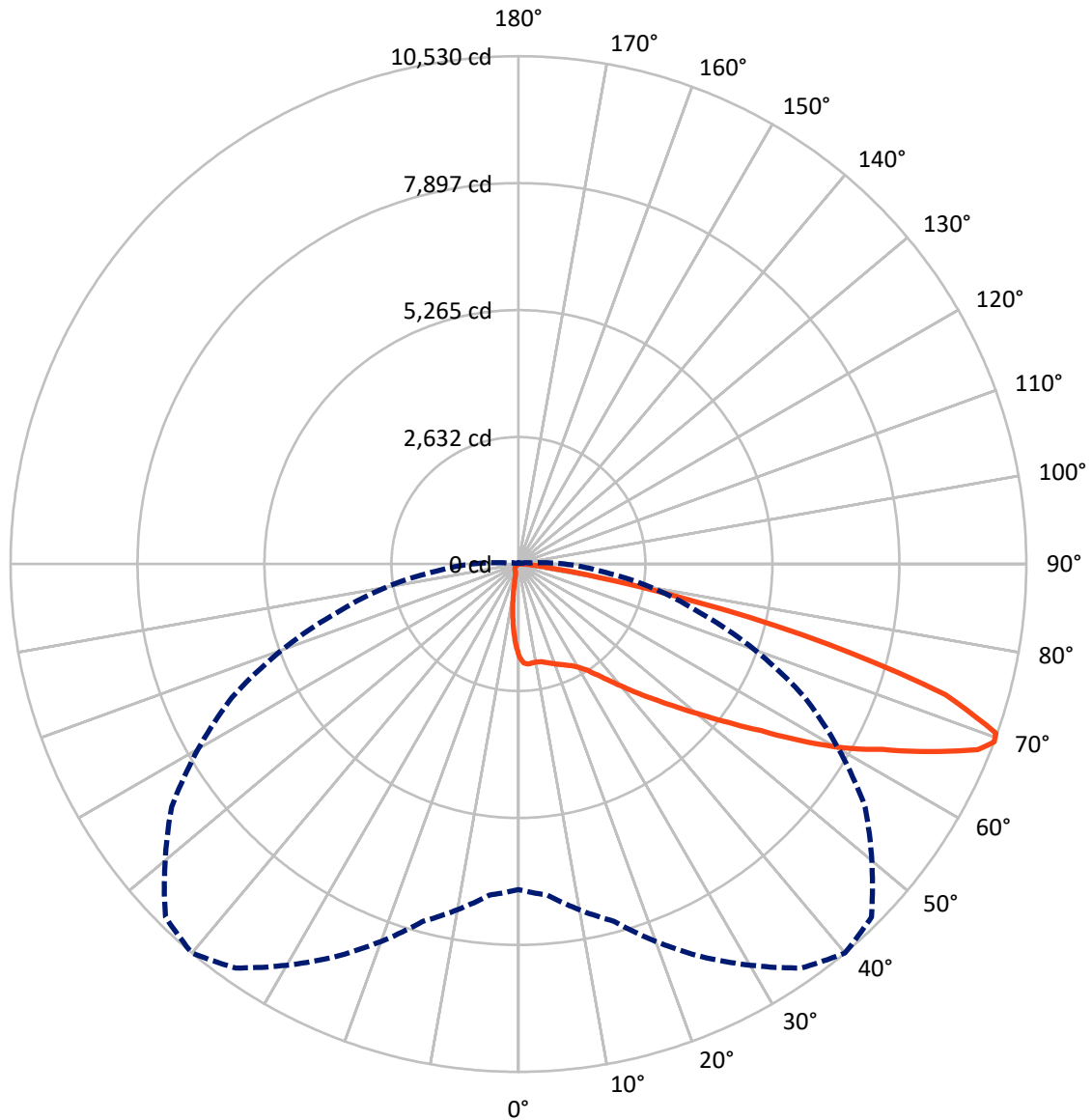


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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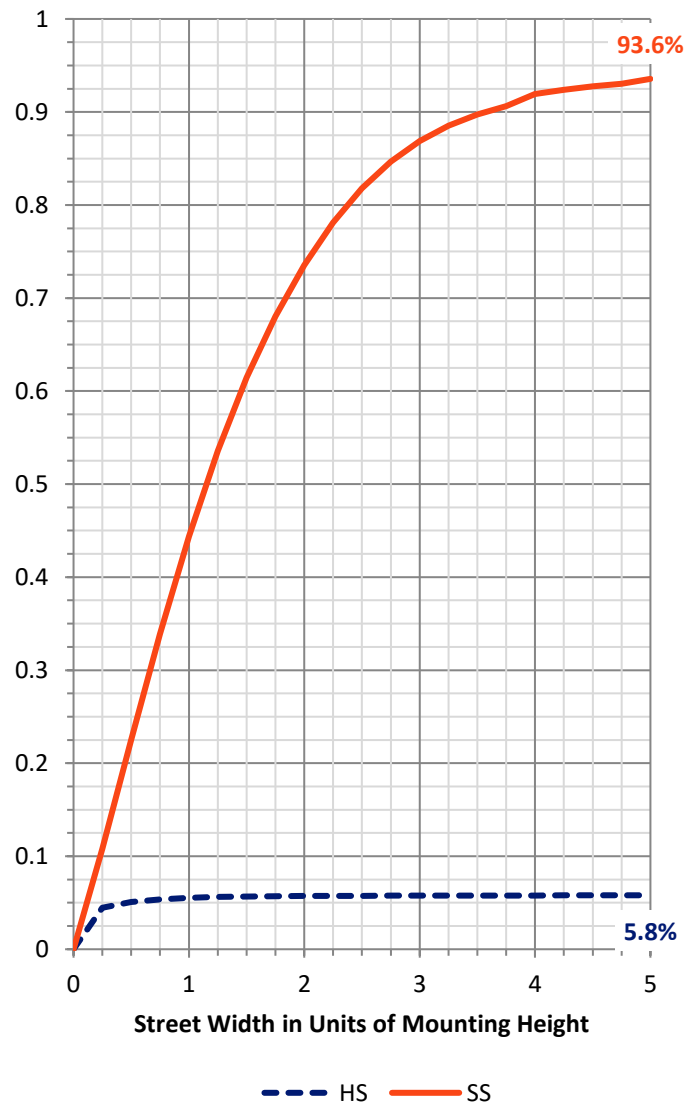
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	749.7	0.0	749.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	12064.5	0.0	12064.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	12814.2	0.0	12814.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	1.2
10°-20°	381.7	3.0
20°-30°	643.0	5.0
30°-40°	1052.6	8.2
40°-50°	1822.5	14.2
50°-60°	2870.6	22.4
60°-70°	3748.9	29.3
70°-80°	1930.8	15.1
80°-90°	208.9	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°	12814.2	100.0
0°-180°	12814.2	100.0

**Coefficient of Utilization**



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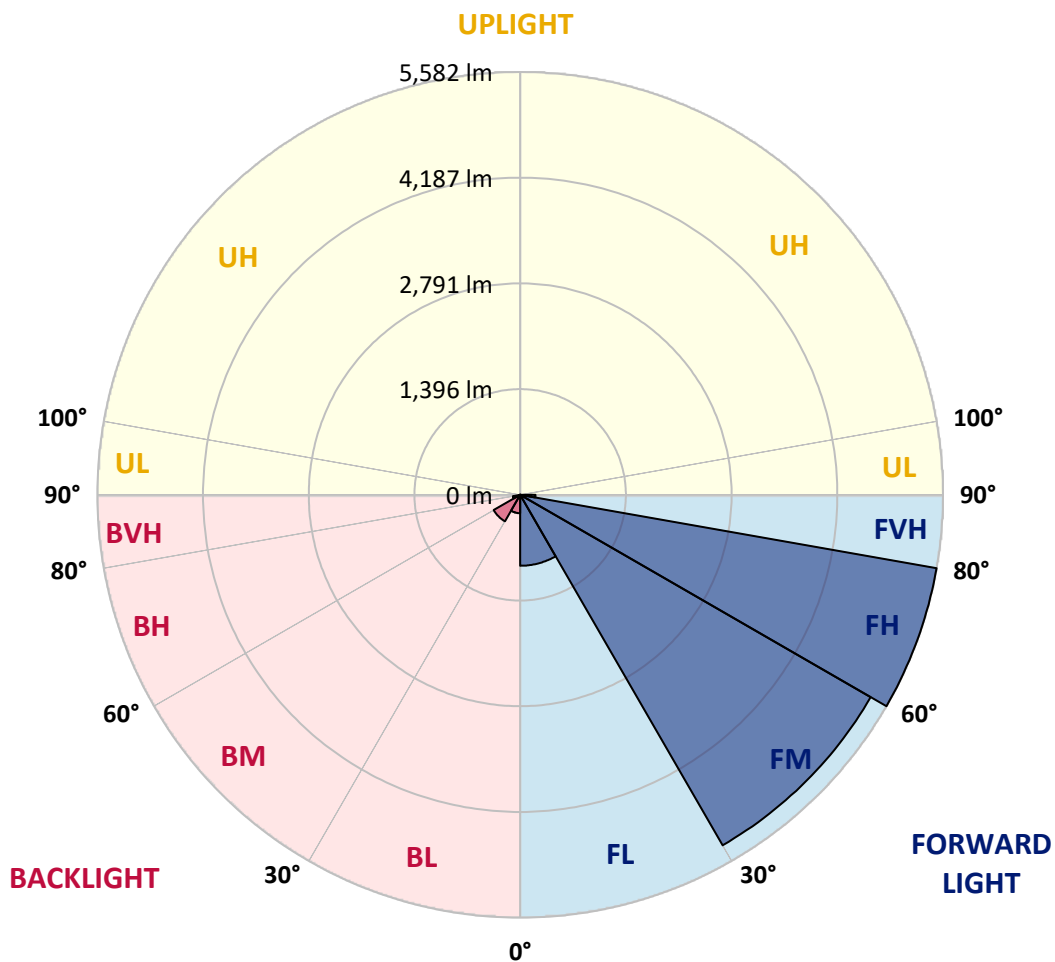
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	937.1	7.3			
FM	(30°-60°)	5342.7	41.7			
FH	(60°-80°)	5582.4	43.6			G3/7500
FVH	(80°-90°)	202.3	1.6			G2/225
BL	(0°-30°)	242.9	1.9	B1/500		
BM	(30°-60°)	403.0	3.1	B1/1000		
BH	(60°-80°)	97.3	0.8	B0/110		G0/110
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	2102.2	2090.7	2083.9	2074.6	2063.2	2053.3	2049.6	2021.2	1994.5	1957.9	1916.1
5°	2141.0	2137.2	2125.0	2112.9	2099.1	2083.9	2075.4	2041.8	2003.8	1950.4	1877.2
7.5°	2144.9	2140.3	2125.0	2108.2	2089.2	2070.9	2056.4	2022.9	1987.7	1933.6	1844.3
10°	2138.8	2133.5	2121.9	2103.7	2080.0	2062.5	2048.0	2015.9	1986.2	1937.4	1838.2
12.5°	2131.9	2126.6	2121.2	2112.1	2091.4	2079.2	2067.1	2036.5	2009.9	1968.6	1860.4
15°	2138.8	2135.7	2141.7	2138.0	2126.6	2115.9	2103.7	2076.3	2051.8	2017.5	1900.8
17.5°	2167.7	2167.7	2186.8	2189.1	2178.4	2163.2	2145.6	2118.2	2097.5	2068.5	1948.9
20°	2235.6	2233.4	2257.7	2262.3	2236.4	2212.7	2186.8	2153.2	2137.2	2118.9	1996.2
22.5°	2352.3	2341.6	2356.2	2351.6	2300.5	2263.9	2231.7	2190.6	2182.3	2173.9	2048.8
25°	2504.1	2497.9	2508.0	2463.0	2373.0	2323.3	2285.2	2238.7	2238.7	2247.1	2108.2
27.5°	2724.6	2701.7	2668.1	2588.7	2453.8	2390.5	2349.2	2299.8	2312.6	2343.9	2186.8
30°	2950.4	2925.2	2848.2	2726.0	2552.2	2485.8	2437.8	2385.9	2416.4	2473.7	2292.0
32.5°	3173.1	3144.8	3035.7	2881.8	2693.3	2627.0	2580.4	2523.2	2574.4	2670.4	2446.2
35°	3388.9	3363.8	3237.9	3056.4	2881.0	2826.0	2783.3	2733.7	2799.3	2933.5	2663.6
37.5°	3631.5	3604.0	3450.7	3253.9	3108.9	3069.2	3038.1	2988.5	3102.8	3299.7	2966.4
40°	3929.7	3883.2	3676.5	3480.5	3372.9	3353.8	3332.4	3325.6	3503.3	3775.7	3369.8
42.5°	4271.4	4195.2	3912.9	3719.3	3662.7	3676.5	3671.2	3701.6	4004.5	4367.5	3861.1
45°	4613.2	4514.7	4176.1	3973.9	3981.6	4029.6	4059.4	4181.4	4632.2	5046.4	4389.7
47.5°	4902.9	4806.1	4428.6	4249.3	4340.8	4435.4	4516.3	4747.4	5277.5	5714.6	4800.7
50°	5150.9	5059.3	4696.2	4552.2	4758.1	4910.7	5041.7	5384.4	5971.7	6223.3	5089.1
52.5°	5353.8	5292.8	4973.9	4899.1	5234.8	5458.2	5650.5	6060.9	6586.4	6636.7	5313.4
55°	5551.3	5507.9	5272.2	5311.8	5794.6	6099.0	6342.4	6778.6	7115.7	6981.4	5528.3
57.5°	5778.5	5738.9	5612.3	5835.1	6530.7	6913.5	7179.1	7414.7	7581.8	7333.9	5731.4
60°	6010.5	5987.7	5990.6	6416.2	7375.9	7743.5	7890.0	7951.0	8039.4	7665.6	5742.8
62.5°	6231.7	6275.2	6423.2	7063.2	8185.0	8467.3	8541.4	8601.6	8497.8	7718.2	5305.7
65°	6606.2	6677.1	7030.2	7928.8	9075.2	9377.2	9453.6	9246.9	8570.3	7038.0	4315.6
67.5°	6789.3	6918.9	7548.9	8735.7	9938.7	10274.3	10246.1	9288.8	7690.8	5366.7	2769.6
69°	6751.1	6889.2	7668.7	8983.0	10225.4	10529.8	10350.6	8775.5	6552.1	3887.8	1700.2
70°	6600.0	6739.8	7606.9	8973.8	10262.1	10503.2	10156.9	8141.6	5539.8	2842.7	1063.2
72.5°	5511.6	5632.2	6753.4	8111.2	9453.6	9257.6	8497.1	5640.5	2699.3	774.2	239.5
75°	3392.7	3459.8	4845.7	6110.5	7140.2	6636.7	5661.2	2806.1	804.7	218.8	132.7
77.5°	1792.5	1823.0	2652.9	3601.8	4526.2	3745.2	2901.5	1094.6	370.7	137.4	96.1
80°	1059.6	1082.4	1428.7	1646.9	1958.8	1636.2	1160.2	672.0	265.4	86.1	85.3
82.5°	606.4	620.9	1035.8	915.4	772.0	659.0	577.4	636.9	159.4	58.0	88.5
85°	222.7	225.7	582.7	696.4	459.2	273.1	286.7	527.8	42.7	36.7	69.3
87.5°	103.8	101.5	299.8	426.3	268.6	173.2	223.5	115.9	16.8	23.6	19.0
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°	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5	1914.5
2.5°	1891.7	1863.4	1812.3	1759.7	1706.3	1665.1	1624.7	1592.7	1581.9	1562.2	1563.6
5°	1833.7	1781.8	1675.0	1566.7	1453.7	1360.8	1273.1	1202.1	1167.7	1132.8	1132.8
7.5°	1783.3	1707.8	1540.8	1364.5	1182.3	1029.0	890.8	787.2	730.0	684.1	683.4
10°	1764.2	1662.0	1428.7	1176.2	922.2	713.2	549.1	443.9	389.8	354.7	353.2
12.5°	1772.6	1646.1	1342.4	1002.2	683.4	458.5	318.1	250.2	227.4	216.6	216.6
15°	1797.1	1641.5	1256.3	832.2	482.7	286.7	211.3	193.0	191.5	191.5	191.5
17.5°	1826.9	1643.0	1167.7	666.6	328.7	205.3	182.3	180.0	181.5	181.5	181.5
20°	1857.2	1643.7	1072.4	513.3	231.9	178.6	171.7	170.9	172.4	172.4	173.2
22.5°	1894.6	1647.5	977.0	383.7	191.5	168.5	163.2	163.2	164.0	164.0	163.2
25°	1937.4	1655.1	878.0	284.6	174.7	161.8	157.2	156.3	157.2	156.3	155.5
27.5°	1990.7	1665.8	767.3	222.7	167.1	154.9	151.1	151.1	150.2	149.5	148.7
30°	2057.8	1678.0	642.9	189.2	159.4	148.7	144.9	144.2	143.4	141.8	141.8
32.5°	2160.2	1704.8	520.2	171.7	151.1	140.3	137.4	137.4	135.7	134.2	133.5
35°	2317.3	1757.4	410.3	160.9	141.8	131.2	127.4	127.4	125.9	125.1	124.3
37.5°	2534.7	1837.5	318.8	151.1	132.7	121.4	117.5	116.7	115.2	113.6	112.8
40°	2823.7	1936.7	250.9	141.8	123.5	111.4	108.3	106.8	103.8	101.5	101.5
42.5°	3186.7	2049.6	203.6	132.0	112.8	102.1	99.9	97.6	92.3	90.0	89.2
45°	3566.6	2150.9	172.4	120.6	102.1	93.1	91.5	87.8	80.8	78.5	78.5
47.5°	3840.4	2174.5	151.9	109.9	92.3	83.2	82.4	75.5	69.3	67.9	67.2
50°	4011.3	2128.1	135.0	99.2	83.2	74.0	71.8	63.3	59.5	58.0	57.2
52.5°	4126.5	2044.9	121.4	90.0	74.7	65.5	60.2	54.2	51.2	49.5	49.5
55°	4218.8	1927.5	107.5	81.7	67.9	58.7	51.2	46.5	43.5	42.0	42.0
57.5°	4244.8	1768.0	93.9	74.7	61.1	51.8	43.5	40.5	36.7	35.8	35.8
60°	4056.3	1480.4	83.2	66.4	54.9	45.0	38.2	34.3	30.5	29.7	28.9
62.5°	3559.8	1145.7	73.2	58.7	48.1	38.8	32.8	28.2	25.2	25.2	25.2
65°	2715.3	768.1	64.0	51.2	42.0	32.8	28.2	22.8	21.4	21.4	22.1
67.5°	1625.5	418.0	54.9	43.5	35.8	27.5	23.6	19.9	19.0	19.9	19.9
69°	952.7	245.5	49.5	38.8	31.4	24.4	20.7	17.5	19.0	19.9	19.9
70°	588.1	165.5	45.8	35.0	28.2	22.1	19.0	16.8	18.3	19.0	19.0
72.5°	164.0	85.3	36.7	27.5	22.8	18.3	15.2	15.2	17.5	18.3	18.3
75°	106.8	63.3	28.2	20.7	17.5	14.6	12.9	14.6	16.8	17.5	17.5
77.5°	88.5	51.8	22.8	16.8	14.6	13.7	12.1	12.9	15.2	16.0	16.0
80°	80.8	36.7	18.3	15.2	12.9	12.1	11.5	10.7	13.7	14.6	14.6
82.5°	77.1	28.9	16.0	13.7	12.1	10.7	9.9	10.7	12.1	12.9	13.7
85°	48.1	19.0	14.6	12.9	10.7	9.9	9.9	9.9	11.5	12.1	12.1
87.5°	17.5	15.2	12.9	10.7	9.2	9.2	9.2	9.2	9.9	11.5	11.5
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)