

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: P269243

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269243
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-04-LED-E1-SL4-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 11155.6 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

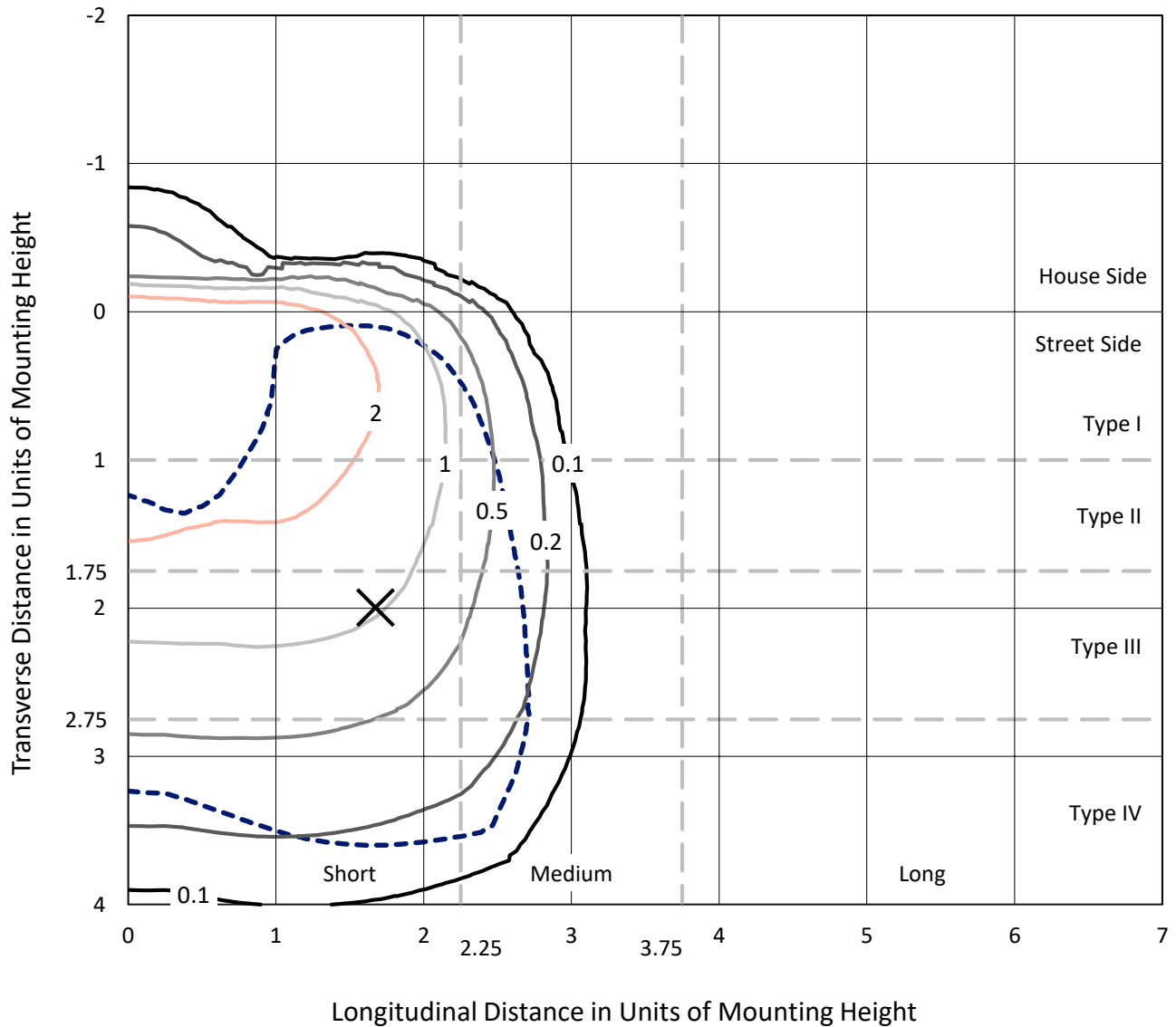


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

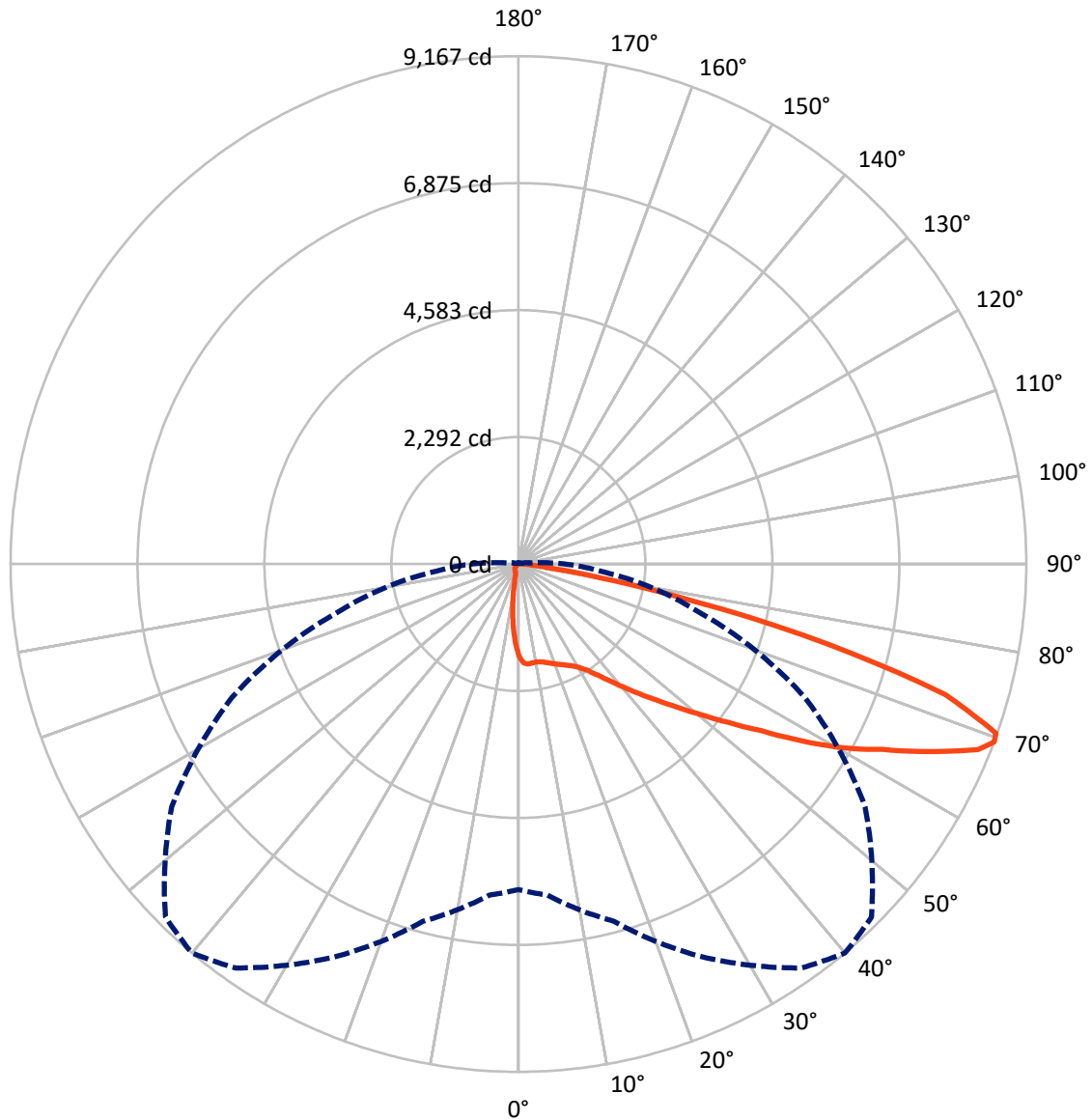


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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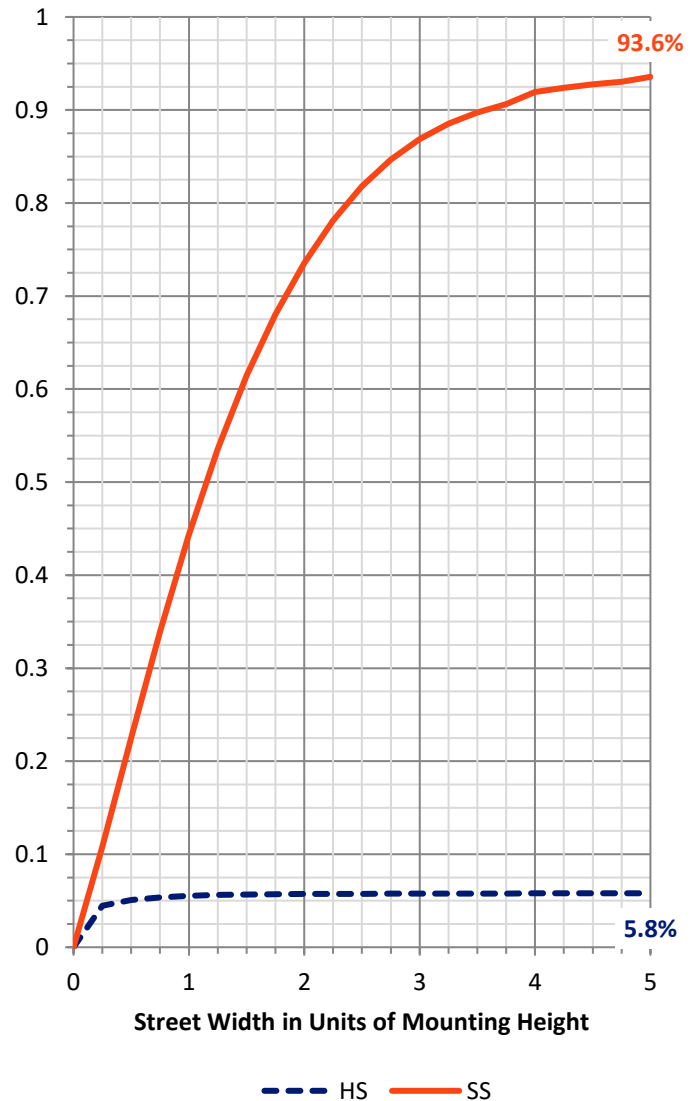
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.7	0.0	652.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10502.9	0.0	10502.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	11155.6	0.0	11155.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.2
10°-20°	332.3	3.0
20°-30°	559.7	5.0
30°-40°	916.3	8.2
40°-50°	1586.6	14.2
50°-60°	2499.0	22.4
60°-70°	3263.6	29.3
70°-80°	1680.9	15.1
80°-90°	181.8	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°	11155.6	100.0
0°-180°	11155.6	100.0



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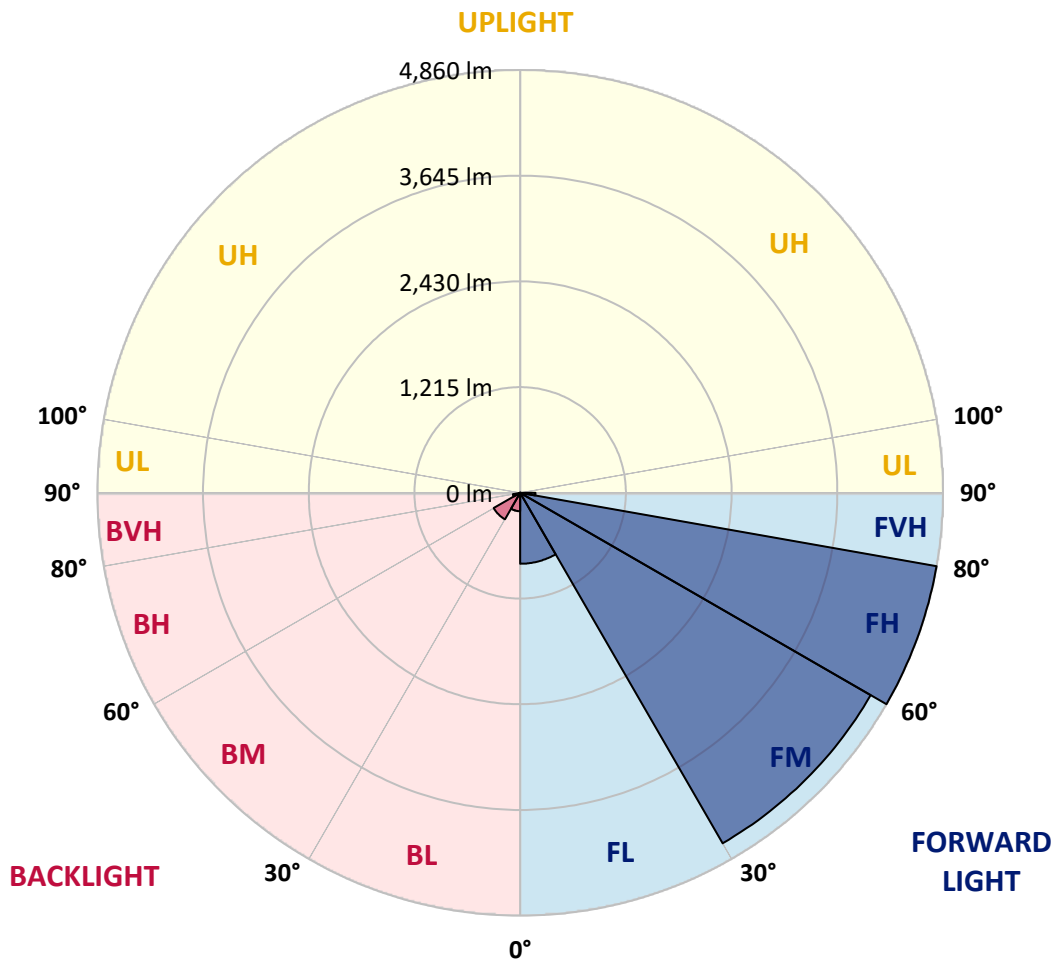
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	815.8	7.3			
FM	(30°-60°)	4651.2	41.7			
FH	(60°-80°)	4859.8	43.6			G2/5000
FVH	(80°-90°)	176.1	1.6			G2/225
BL	(0°-30°)	211.4	1.9	B1/500		
BM	(30°-60°)	350.8	3.1	B1/1000		
BH	(60°-80°)	84.8	0.8	B0/110		G0/110
BVH	(80°-90°)	5.7	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1830.0	1820.1	1814.0	1806.1	1796.3	1787.5	1784.3	1759.7	1736.5	1704.5	1668.1
5°	1864.0	1860.6	1850.0	1839.3	1827.4	1814.0	1806.9	1777.6	1744.4	1697.8	1634.1
7.5°	1867.2	1863.3	1850.0	1835.3	1818.8	1802.8	1790.2	1760.9	1730.5	1683.3	1605.6
10°	1861.8	1857.2	1847.4	1831.4	1810.9	1795.5	1782.9	1755.0	1729.1	1686.6	1600.3
12.5°	1856.0	1851.2	1846.6	1838.7	1820.8	1810.2	1799.5	1773.0	1749.7	1713.8	1619.6
15°	1861.8	1859.2	1864.6	1861.3	1851.2	1842.0	1831.4	1807.5	1786.2	1756.4	1654.8
17.5°	1887.2	1887.2	1903.8	1905.8	1896.4	1883.1	1867.8	1844.0	1826.1	1800.8	1696.5
20°	1946.3	1944.2	1965.5	1969.4	1946.8	1926.3	1903.8	1874.6	1860.6	1844.7	1737.7
22.5°	2047.9	2038.6	2051.2	2047.1	2002.7	1970.8	1942.9	1907.0	1899.7	1892.5	1783.6
25°	2179.9	2174.6	2183.3	2144.2	2065.7	2022.7	1989.3	1949.0	1949.0	1956.1	1835.3
27.5°	2371.9	2351.9	2322.7	2253.7	2136.2	2081.1	2045.3	2002.1	2013.3	2040.5	1903.8
30°	2568.4	2546.5	2479.4	2373.2	2221.8	2164.0	2122.2	2077.1	2103.7	2153.3	1995.3
32.5°	2762.3	2737.8	2642.9	2508.6	2344.7	2286.8	2246.4	2196.5	2241.1	2324.8	2129.5
35°	2950.3	2928.4	2818.8	2660.7	2508.0	2460.2	2423.0	2379.9	2436.9	2553.8	2318.7
37.5°	3161.4	3137.5	3004.0	2832.7	2706.6	2672.0	2644.8	2601.6	2701.3	2872.6	2582.4
40°	3421.0	3380.5	3200.7	3030.0	2936.3	2919.8	2901.0	2895.1	3049.8	3286.9	2933.7
42.5°	3718.5	3652.1	3406.5	3237.9	3188.7	3200.7	3195.9	3222.5	3486.1	3802.2	3361.3
45°	4016.1	3930.4	3635.5	3459.6	3466.2	3508.1	3533.9	3640.1	4032.6	4393.3	3821.4
47.5°	4268.3	4183.9	3855.3	3699.3	3778.9	3861.3	3931.6	4132.8	4594.3	4974.9	4179.4
50°	4484.1	4404.5	4088.4	3962.9	4142.2	4274.9	4389.2	4687.4	5198.6	5417.8	4430.4
52.5°	4660.8	4607.6	4330.1	4265.1	4557.2	4751.8	4919.1	5276.4	5733.8	5777.7	4625.6
55°	4832.7	4795.0	4589.7	4624.3	5044.5	5309.5	5521.3	5901.1	6194.6	6077.8	4812.8
57.5°	5030.6	4996.2	4885.9	5079.7	5685.4	6018.6	6249.8	6455.0	6600.3	6384.6	4989.5
60°	5232.4	5212.5	5215.2	5585.8	6421.1	6741.2	6868.6	6921.8	6998.8	6673.4	4999.3
62.5°	5425.0	5463.0	5591.7	6148.8	7125.6	7371.3	7435.7	7488.1	7397.8	6719.2	4618.9
65°	5751.0	5812.8	6120.3	6902.4	7900.6	8163.4	8229.9	8049.9	7461.0	6126.9	3757.0
67.5°	5910.5	6023.3	6571.8	7605.1	8652.1	8944.3	8919.8	8086.5	6695.2	4672.1	2411.1
69°	5877.3	5997.4	6676.1	7820.1	8901.8	9166.8	9010.8	7639.5	5704.0	3384.5	1480.0
70°	5745.7	5867.3	6622.2	7812.2	8933.7	9143.6	8842.0	7087.7	4822.8	2474.8	925.7
72.5°	4798.1	4903.0	5879.2	7061.1	8229.9	8059.2	7397.3	4910.4	2350.0	674.0	208.4
75°	2953.5	3011.9	4218.5	5319.5	6215.9	5777.7	4928.3	2442.9	700.6	190.6	115.5
77.5°	1560.4	1587.0	2309.5	3135.5	3940.2	3260.4	2525.9	952.8	322.8	119.6	83.6
80°	922.3	942.2	1243.8	1433.7	1705.3	1424.4	1010.0	584.9	231.0	75.1	74.4
82.5°	527.9	540.5	901.8	796.8	672.0	573.7	502.6	554.4	138.8	50.5	77.1
85°	193.9	196.5	507.4	606.3	399.7	237.7	249.6	459.6	37.2	31.9	60.5
87.5°	90.3	88.4	261.0	371.2	233.6	150.7	194.6	100.9	14.6	20.7	16.6
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°	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6	1666.6
2.5°	1646.8	1622.2	1577.8	1531.9	1485.3	1449.5	1414.4	1386.4	1377.2	1359.9	1361.2
5°	1596.3	1551.2	1458.2	1363.8	1265.6	1184.7	1108.2	1046.4	1016.6	986.1	986.1
7.5°	1552.5	1486.8	1341.3	1187.9	1029.3	895.8	775.5	685.2	635.6	595.7	594.9
10°	1535.9	1446.9	1243.8	1023.9	802.7	620.9	478.1	386.5	339.3	308.7	307.4
12.5°	1543.2	1432.9	1168.7	872.6	594.9	399.0	276.9	217.7	197.8	188.6	188.6
15°	1564.5	1428.9	1093.6	724.5	420.3	249.6	184.0	168.1	166.6	166.6	166.6
17.5°	1590.3	1430.3	1016.6	580.3	286.2	178.7	158.7	156.8	158.0	158.0	158.0
20°	1616.9	1431.0	933.6	446.8	201.8	155.3	149.4	148.7	150.0	150.0	150.7
22.5°	1649.4	1434.2	850.7	334.0	166.6	146.8	142.1	142.1	142.8	142.8	142.1
25°	1686.6	1440.9	764.3	247.8	152.1	140.8	136.8	136.2	136.8	136.2	135.5
27.5°	1733.1	1450.3	668.0	193.9	145.4	134.7	131.5	131.5	130.9	130.2	129.4
30°	1791.5	1460.9	559.7	164.7	138.8	129.4	126.1	125.6	124.9	123.4	123.4
32.5°	1880.5	1484.1	452.8	149.4	131.5	122.2	119.6	119.6	118.1	116.9	116.2
35°	2017.4	1530.0	357.3	140.1	123.4	114.3	110.9	110.9	109.6	109.0	108.2
37.5°	2206.5	1599.6	277.5	131.5	115.5	105.6	102.2	101.6	100.3	99.0	98.3
40°	2458.2	1685.9	218.5	123.4	107.5	96.9	94.3	93.0	90.3	88.4	88.4
42.5°	2774.2	1784.3	177.2	114.9	98.3	89.0	87.0	85.0	80.4	78.3	77.8
45°	3104.9	1872.5	150.0	104.9	89.0	80.9	79.7	76.4	70.3	68.5	68.5
47.5°	3343.3	1893.1	132.1	95.6	80.4	72.4	71.8	65.8	60.5	59.1	58.4
50°	3492.2	1852.7	117.5	86.3	72.4	64.4	62.4	55.2	51.8	50.5	49.8
52.5°	3592.3	1780.3	105.6	78.3	65.0	57.1	52.5	47.2	44.5	43.2	43.2
55°	3672.7	1677.9	93.7	71.1	59.1	51.2	44.5	40.6	37.9	36.6	36.6
57.5°	3695.3	1539.2	81.7	65.0	53.1	45.2	37.9	35.3	31.9	31.3	31.3
60°	3531.2	1288.9	72.4	57.9	47.8	39.2	33.1	29.9	26.6	26.0	25.2
62.5°	3099.1	997.4	63.7	51.2	41.9	33.9	28.6	24.6	21.9	21.9	21.9
65°	2363.9	668.7	55.8	44.5	36.6	28.6	24.6	19.9	18.5	18.5	19.3
67.5°	1415.0	363.9	47.8	37.9	31.3	24.0	20.7	17.2	16.6	17.2	17.2
69°	829.3	213.7	43.2	33.9	27.2	21.2	18.0	15.4	16.6	17.2	17.2
70°	511.9	144.1	39.9	30.5	24.6	19.3	16.6	14.6	15.9	16.6	16.6
72.5°	142.8	74.4	31.9	24.0	19.9	15.9	13.2	13.2	15.4	15.9	15.9
75°	93.0	55.2	24.6	18.0	15.4	12.7	11.3	12.7	14.6	15.4	15.4
77.5°	77.1	45.2	19.9	14.6	12.7	11.9	10.6	11.3	13.2	14.0	14.0
80°	70.3	31.9	15.9	13.2	11.3	10.6	9.9	9.3	11.9	12.7	12.7
82.5°	67.1	25.2	14.0	11.9	10.6	9.3	8.7	9.3	10.6	11.3	11.9
85°	41.9	16.6	12.7	11.3	9.3	8.7	8.7	8.7	9.9	10.6	10.6
87.5°	15.4	13.2	11.3	9.3	7.9	7.9	7.9	7.9	8.7	9.9	9.9
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)