

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: P200606

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GPC-AF-02-LED-E1-SL3-8030-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 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: 6997 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 86  
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

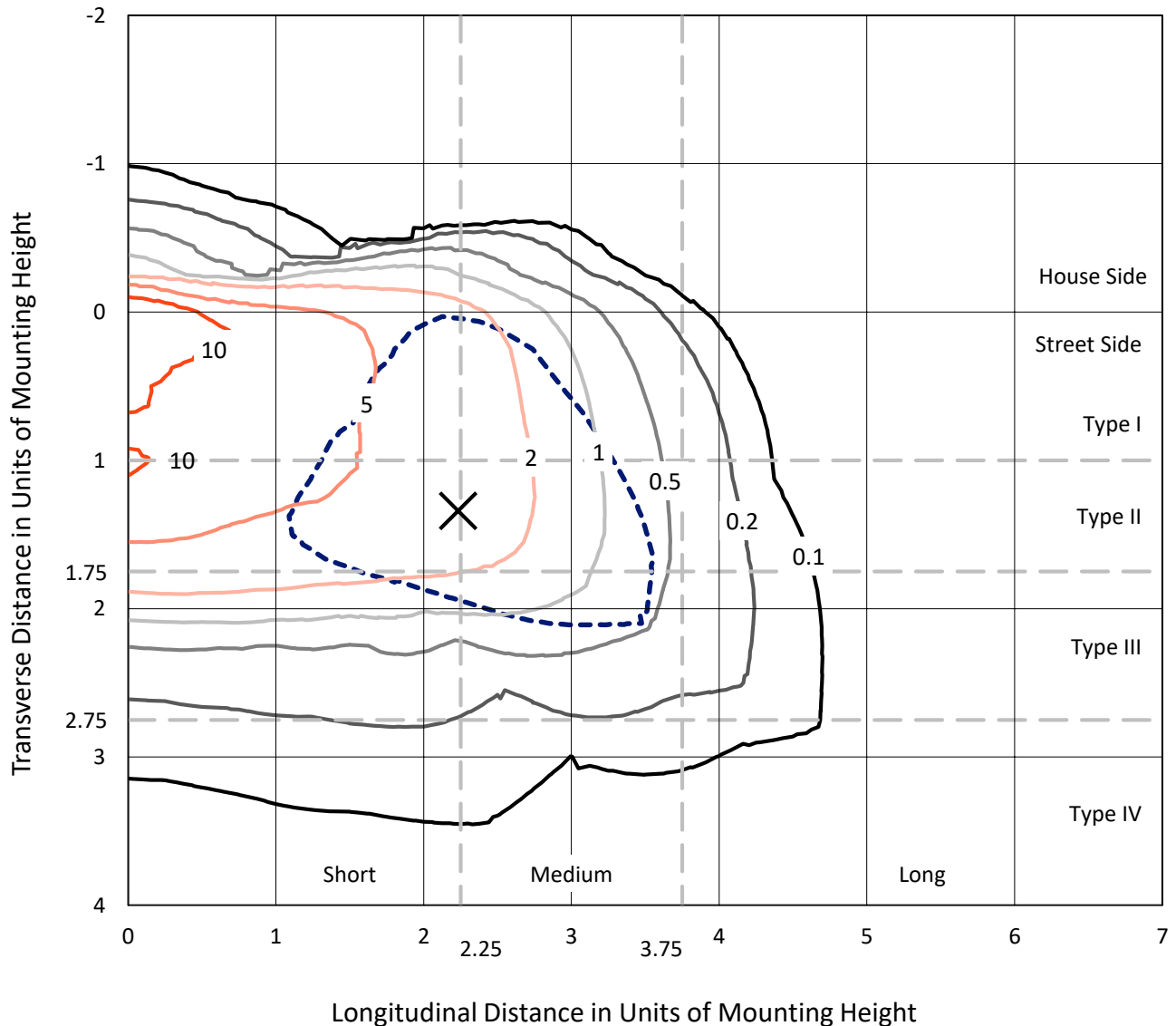


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

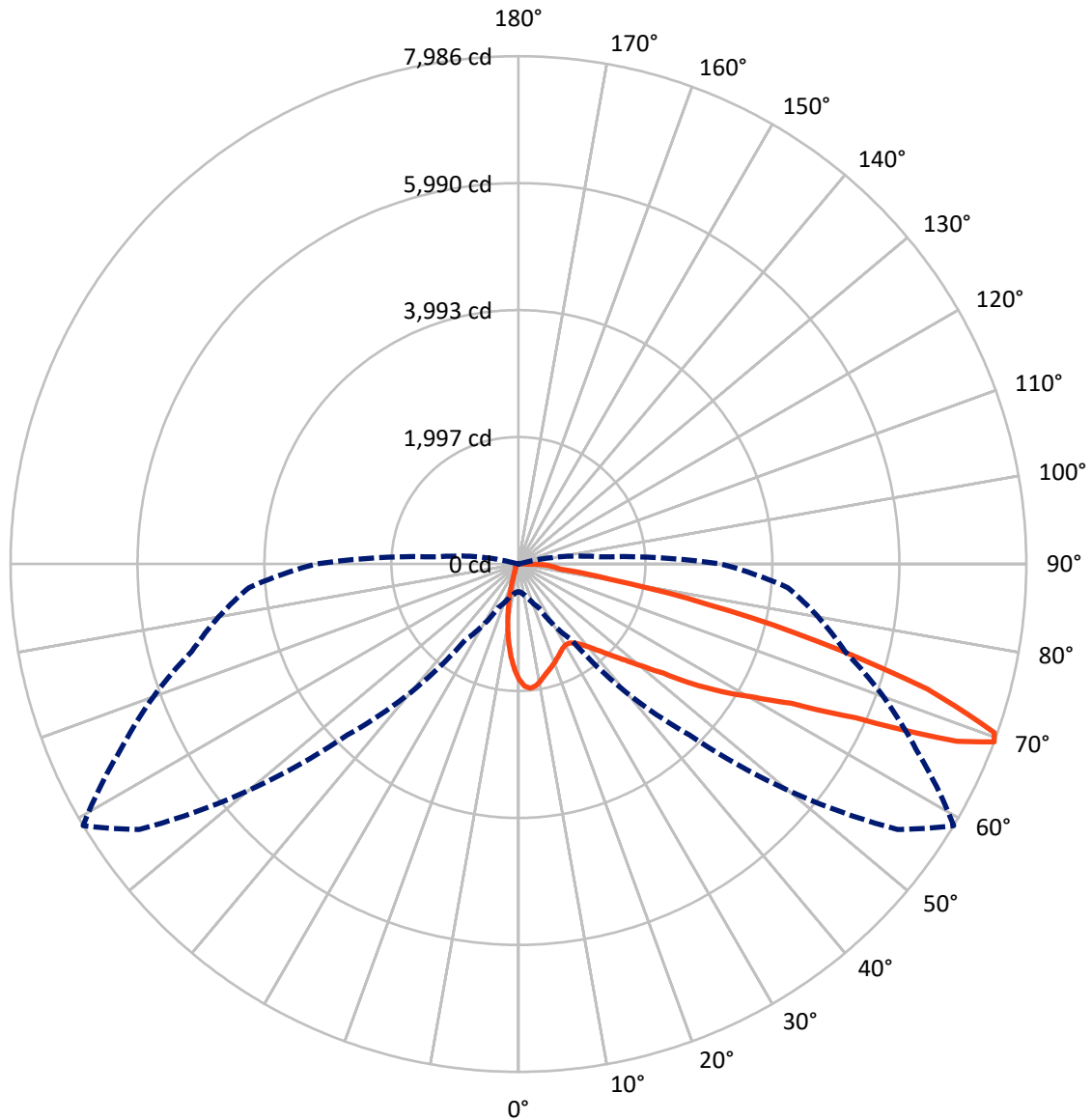


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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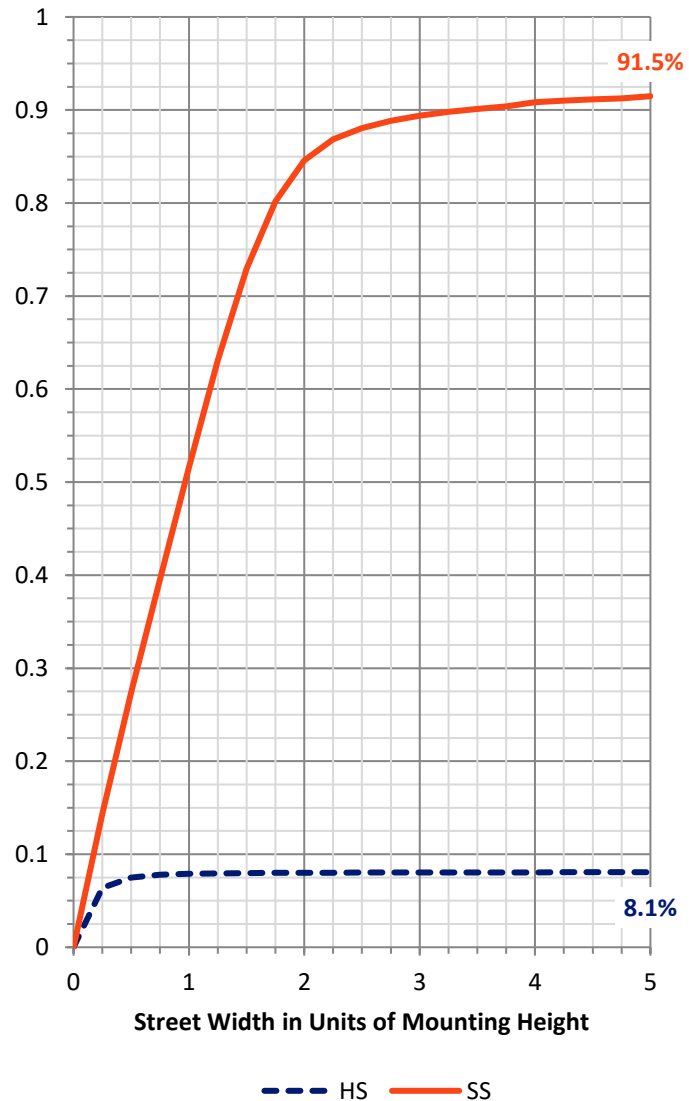
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	569.8	0.0	569.8
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	6427.2	0.0	6427.2
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	6997.0	0.0	6997.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.8	2.1
10°-20°	305.5	4.4
20°-30°	411.0	5.9
30°-40°	596.8	8.5
40°-50°	993.7	14.2
50°-60°	1550.2	22.2
60°-70°	1918.2	27.4
70°-80°	972.1	13.9
80°-90°	101.7	1.5
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°	6997.0	100.0
0°-180°	6997.0	100.0



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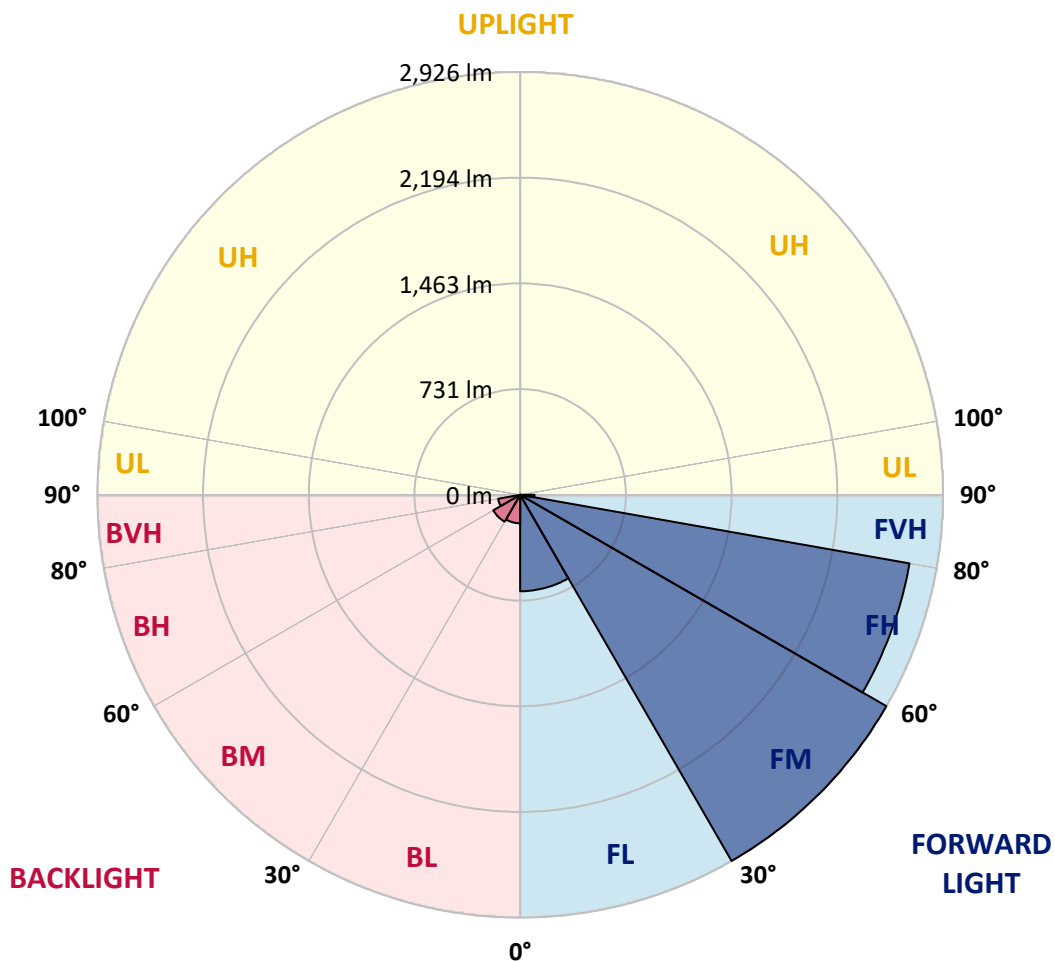
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.1	9.5			
FM	(30°-60°)	2925.9	41.8			
FH	(60°-80°)	2735.6	39.1			G2/5000
FVH	(80°-90°)	98.6	1.4			G1/100
BL	(0°-30°)	197.2	2.8	B1/500		
BM	(30°-60°)	214.7	3.1	B0/220		
BH	(60°-80°)	154.7	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1996.1	1995.3	1986.6	1982.7	1975.5	1960.5	1937.2	1924.9	1905.1	1870.7	1824.4
5°	1977.9	1987.4	1992.5	1992.9	1998.1	1992.5	1971.6	1961.3	1934.0	1878.6	1795.5
7.5°	1854.5	1858.0	1872.7	1885.3	1909.9	1933.2	1940.7	1936.4	1920.1	1860.8	1750.4
10°	1722.3	1725.9	1743.3	1759.9	1793.1	1829.1	1867.1	1875.0	1881.8	1835.5	1706.9
12.5°	1608.4	1611.9	1629.7	1651.5	1690.3	1734.6	1793.5	1806.6	1836.3	1811.3	1672.1
15°	1510.2	1511.8	1529.2	1556.1	1602.4	1659.4	1726.3	1747.2	1792.7	1794.3	1641.6
17.5°	1426.7	1430.7	1441.4	1467.1	1517.8	1588.2	1666.1	1696.2	1749.6	1780.1	1611.9
20°	1375.7	1379.7	1379.3	1393.5	1439.0	1514.2	1606.0	1642.0	1706.9	1765.4	1585.4
22.5°	1365.8	1365.8	1355.5	1353.6	1380.5	1443.4	1543.5	1587.4	1668.5	1759.1	1566.8
25°	1401.0	1399.4	1373.7	1352.8	1353.9	1391.5	1482.9	1535.2	1636.1	1763.5	1556.9
27.5°	1475.4	1473.4	1441.0	1401.0	1369.0	1368.6	1437.0	1493.2	1610.3	1784.0	1560.9
30°	1578.3	1577.5	1542.3	1492.0	1433.9	1380.5	1421.2	1472.3	1593.7	1821.2	1570.0
32.5°	1690.7	1689.5	1663.0	1609.9	1536.3	1433.9	1437.8	1480.6	1598.5	1870.7	1592.1
35°	1809.7	1807.8	1796.3	1750.0	1668.9	1532.4	1492.4	1525.7	1628.5	1944.7	1635.7
37.5°	1938.7	1940.7	1949.0	1904.7	1819.6	1670.5	1583.8	1606.4	1689.1	2045.2	1706.5
40°	2129.0	2128.7	2131.4	2073.3	1991.4	1839.4	1711.6	1718.7	1790.4	2178.5	1814.1
42.5°	2474.5	2450.3	2377.1	2258.4	2176.1	2032.5	1872.7	1865.1	1914.2	2343.5	1964.8
45°	2938.6	2887.1	2697.2	2469.7	2364.5	2250.1	2070.9	2046.7	2078.0	2541.7	2150.8
47.5°	3337.8	3284.4	3015.7	2689.7	2564.3	2456.7	2303.1	2259.6	2269.9	2763.7	2386.6
50°	3473.5	3447.4	3212.8	2881.2	2757.7	2716.6	2572.6	2519.6	2504.9	3020.5	2660.0
52.5°	3426.4	3424.4	3268.2	3005.4	2935.0	2985.6	2911.7	2850.3	2796.5	3291.1	2938.2
55°	3350.8	3360.7	3290.7	3114.2	3111.9	3231.4	3375.4	3324.3	3168.4	3585.1	3177.9
57.5°	3142.3	3184.7	3278.0	3320.0	3417.3	3539.6	3761.5	3791.6	3607.2	3810.2	3377.0
60°	2549.6	2642.6	2948.1	3349.7	3811.0	4115.7	4227.6	4253.3	3967.3	3997.4	3645.6
62.5°	1809.7	1904.7	2292.1	2971.4	3816.9	4872.6	4922.0	4821.1	4363.7	4274.7	4108.9
65°	960.7	1033.9	1350.4	2144.9	3309.3	5048.2	6136.3	5835.6	5063.3	4820.3	4707.6
67.5°	491.4	513.6	639.4	1049.7	2275.0	4484.0	7224.7	7436.4	6268.8	5361.6	4678.7
69°	434.8	447.9	531.4	758.9	1456.8	3797.9	7277.8	7986.0	6899.9	5316.5	4251.8
70°	421.0	432.5	508.4	686.9	1138.7	3185.1	7074.8	7937.7	7061.3	5144.8	3932.9
72.5°	357.3	367.2	452.6	606.9	925.4	1581.1	5747.0	6726.2	6336.5	4285.8	2846.8
75°	239.0	271.4	434.4	569.0	861.0	898.1	3788.8	4860.7	4515.3	2890.7	1482.9
77.5°	57.4	61.7	122.7	452.6	787.4	790.5	1948.6	3021.7	2464.6	1030.3	350.6
80°	30.9	29.7	34.4	89.8	733.2	741.9	877.2	1466.7	879.9	170.9	115.5
82.5°	21.8	20.6	22.2	37.6	230.7	675.8	634.6	663.9	364.8	65.7	51.8
85°	7.9	7.5	12.3	34.0	72.4	388.5	652.0	547.6	295.6	30.1	38.0
87.5°	2.8	2.4	4.7	18.6	22.2	165.4	402.4	413.9	116.3	18.2	17.8
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°	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1805.0	1780.5	1735.4	1689.1	1646.3	1594.9	1569.2	1543.9	1533.2	1529.2	1510.6
5°	1752.8	1711.2	1615.5	1519.3	1430.7	1336.5	1274.4	1224.6	1195.3	1181.0	1158.5
7.5°	1685.9	1617.9	1472.6	1324.3	1186.2	1050.1	949.2	871.6	818.2	792.5	769.2
10°	1621.0	1530.4	1323.9	1121.7	934.2	753.7	614.5	513.6	449.1	419.4	400.4
12.5°	1562.9	1445.3	1180.3	924.3	688.8	477.6	335.9	255.6	215.6	201.8	195.1
15°	1511.0	1367.0	1044.5	736.7	466.5	273.0	183.6	156.3	150.0	150.0	149.2
17.5°	1462.0	1290.2	913.6	560.7	292.8	167.0	139.7	136.1	136.1	137.7	137.7
20°	1414.9	1217.0	787.0	402.4	184.4	132.5	126.2	125.4	126.2	128.2	128.2
22.5°	1374.5	1150.6	668.7	276.2	136.9	119.5	116.3	115.1	115.5	116.7	117.5
25°	1344.5	1094.4	557.1	187.1	117.9	108.8	105.2	103.3	101.7	101.7	102.5
27.5°	1325.5	1046.9	449.1	136.1	106.0	98.9	93.4	90.2	86.6	84.7	85.5
30°	1311.6	1001.8	347.8	111.2	95.0	87.8	80.7	75.6	70.4	68.1	68.8
32.5°	1306.5	965.4	259.9	98.1	85.1	77.2	68.4	61.7	56.2	54.2	54.6
35°	1320.3	936.5	190.3	88.6	77.2	67.3	57.4	49.9	45.5	44.3	44.7
37.5°	1356.7	921.1	142.4	80.7	70.0	59.0	47.9	40.8	38.0	38.0	38.4
40°	1425.6	920.7	114.3	75.2	63.7	51.0	39.6	34.4	32.8	33.6	34.0
42.5°	1526.1	941.7	99.7	70.0	58.2	43.5	32.8	29.3	28.9	29.7	30.1
45°	1663.4	980.0	91.8	65.7	52.2	36.4	27.7	25.3	25.3	26.5	26.9
47.5°	1831.5	1036.2	85.1	61.3	46.3	30.5	23.7	22.2	22.6	23.7	24.1
50°	2034.1	1107.1	78.3	56.6	41.9	25.3	20.6	19.4	19.8	21.4	21.8
52.5°	2264.8	1202.4	72.8	52.2	36.4	21.0	17.4	16.6	17.4	19.0	19.4
55°	2462.6	1287.9	66.1	48.7	29.3	17.4	14.2	14.2	15.0	17.0	17.4
57.5°	2652.9	1377.3	60.1	41.9	22.9	13.8	11.9	12.3	13.5	15.4	15.8
60°	2932.2	1528.8	53.0	35.2	17.4	11.1	9.9	10.3	11.9	13.8	14.2
62.5°	3406.6	1759.5	45.9	29.3	13.5	8.7	7.9	8.7	10.7	13.1	13.5
65°	3834.7	1853.3	37.6	24.5	10.3	6.7	6.7	7.9	10.3	12.7	13.1
67.5°	3596.2	1560.1	29.3	19.4	7.9	5.1	5.5	7.5	9.9	12.7	13.1
69°	3180.3	1275.6	24.9	15.4	6.7	4.7	5.1	7.5	9.9	12.3	12.7
70°	2856.3	1077.0	22.2	13.1	5.9	4.7	5.1	7.1	9.9	12.3	12.7
72.5°	1913.0	581.6	17.8	9.5	5.5	4.4	4.4	7.1	9.5	11.9	12.3
75°	822.2	160.6	14.2	6.7	4.7	4.0	4.0	6.7	9.1	11.5	12.3
77.5°	150.4	40.8	11.5	5.9	4.7	4.0	3.6	6.3	8.7	11.1	11.5
80°	59.7	20.2	9.1	5.1	4.4	3.6	3.2	5.9	8.3	10.7	11.1
82.5°	36.0	11.5	7.5	4.7	4.4	3.2	2.8	5.1	7.9	10.3	10.7
85°	29.3	7.9	5.9	4.7	4.0	3.2	2.4	4.7	7.1	9.9	10.3
87.5°	14.2	5.5	5.5	4.4	4.0	3.2	2.4	4.4	6.7	9.5	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)