

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: P299883

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8001.9 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

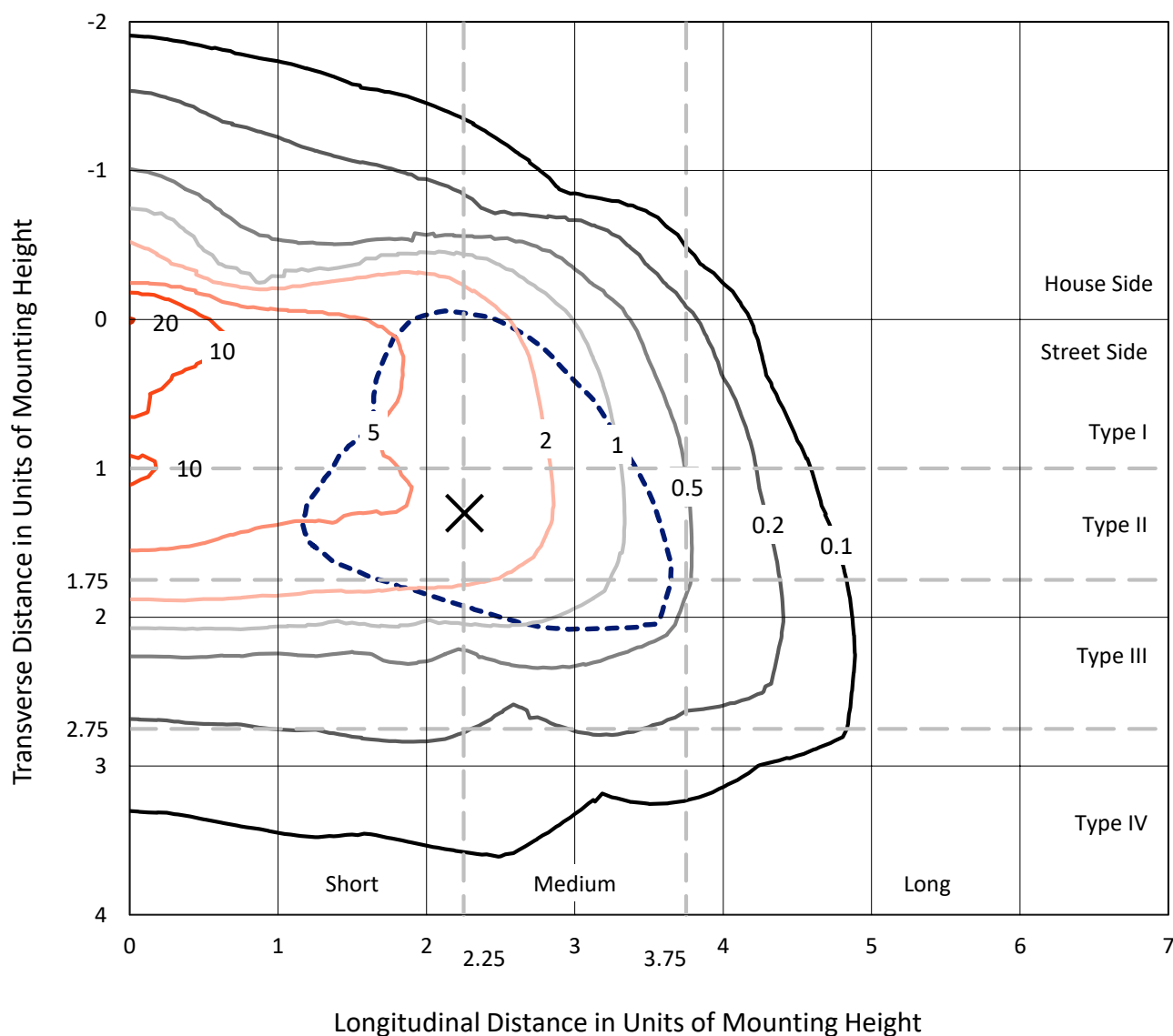


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

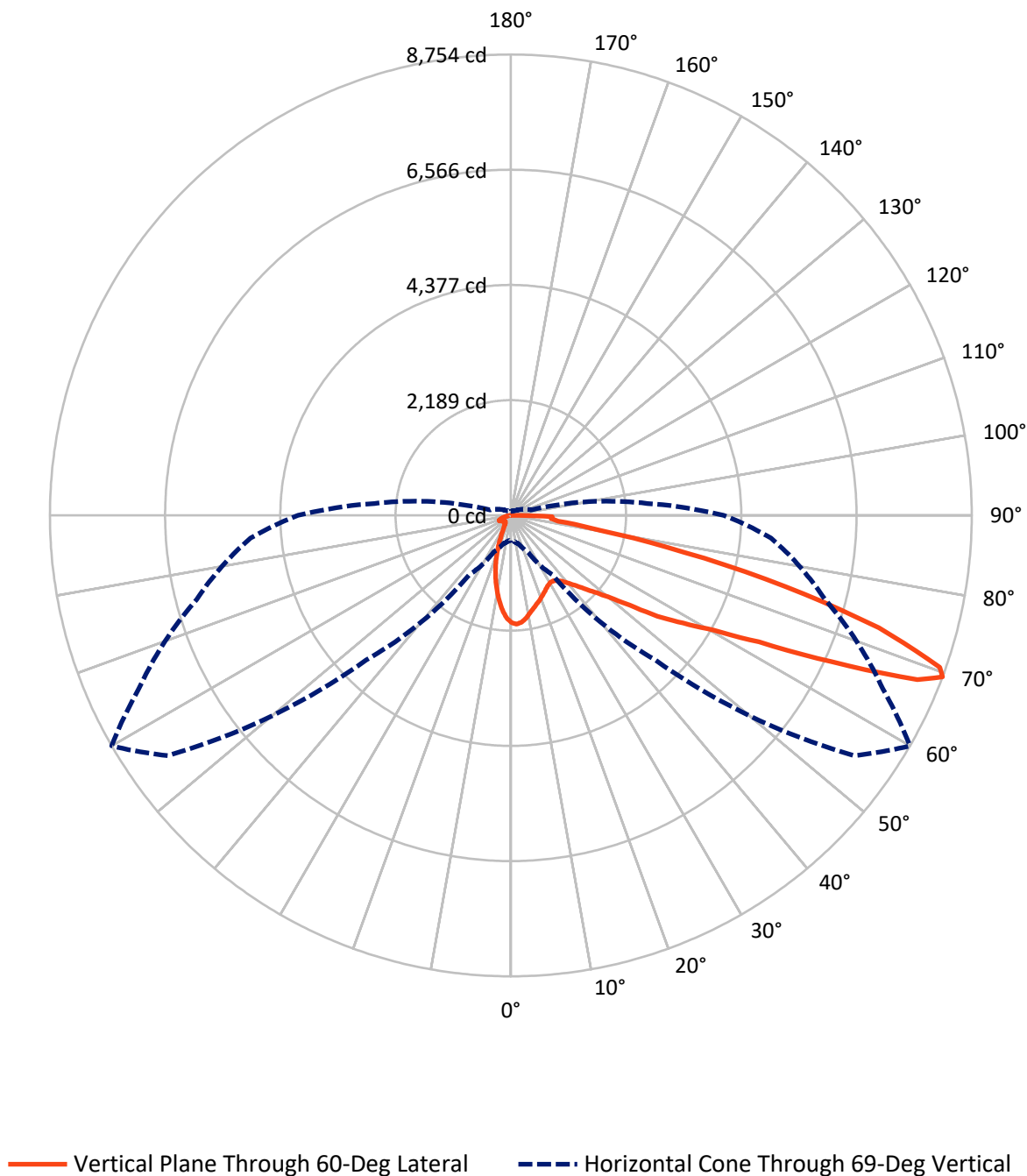


Based on 10 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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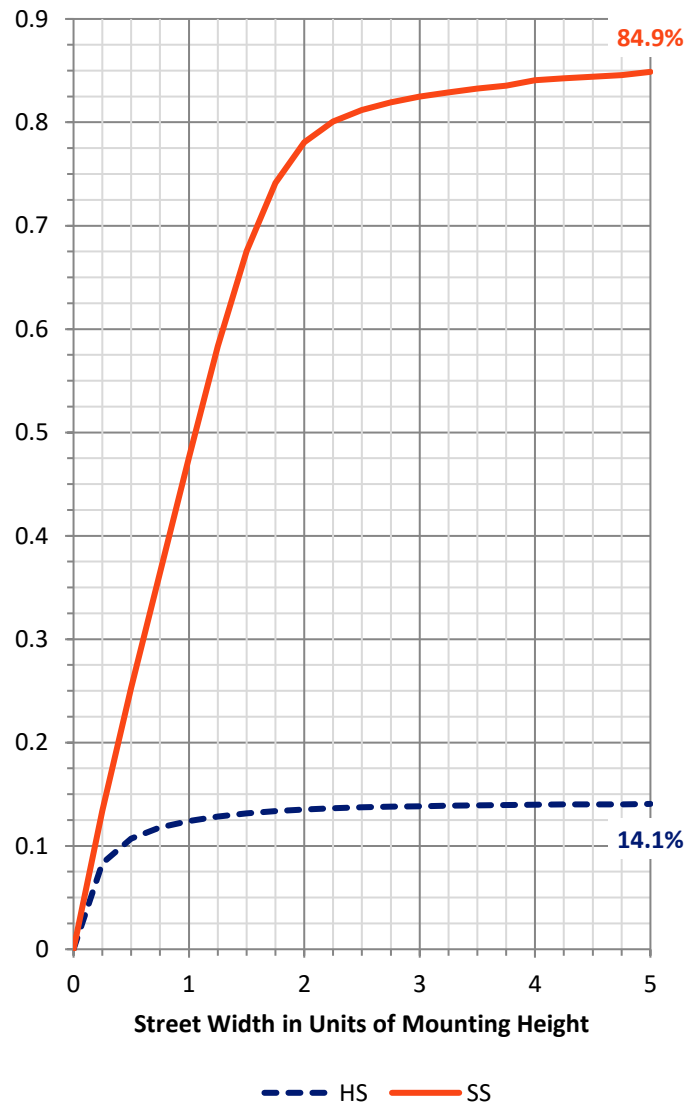
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.4	0.0	1138.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6863.5	0.0	6863.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	8001.9	0.0	8001.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.4	2.2
10°-20°	367.3	4.6
20°-30°	468.0	5.8
30°-40°	643.4	8.0
40°-50°	1044.0	13.0
50°-60°	1674.3	20.9
60°-70°	2228.4	27.8
70°-80°	1203.2	15.0
80°-90°	200.8	2.5
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°	8001.9	100.0
0°-180°	8001.9	100.0

Coefficient of Utilization



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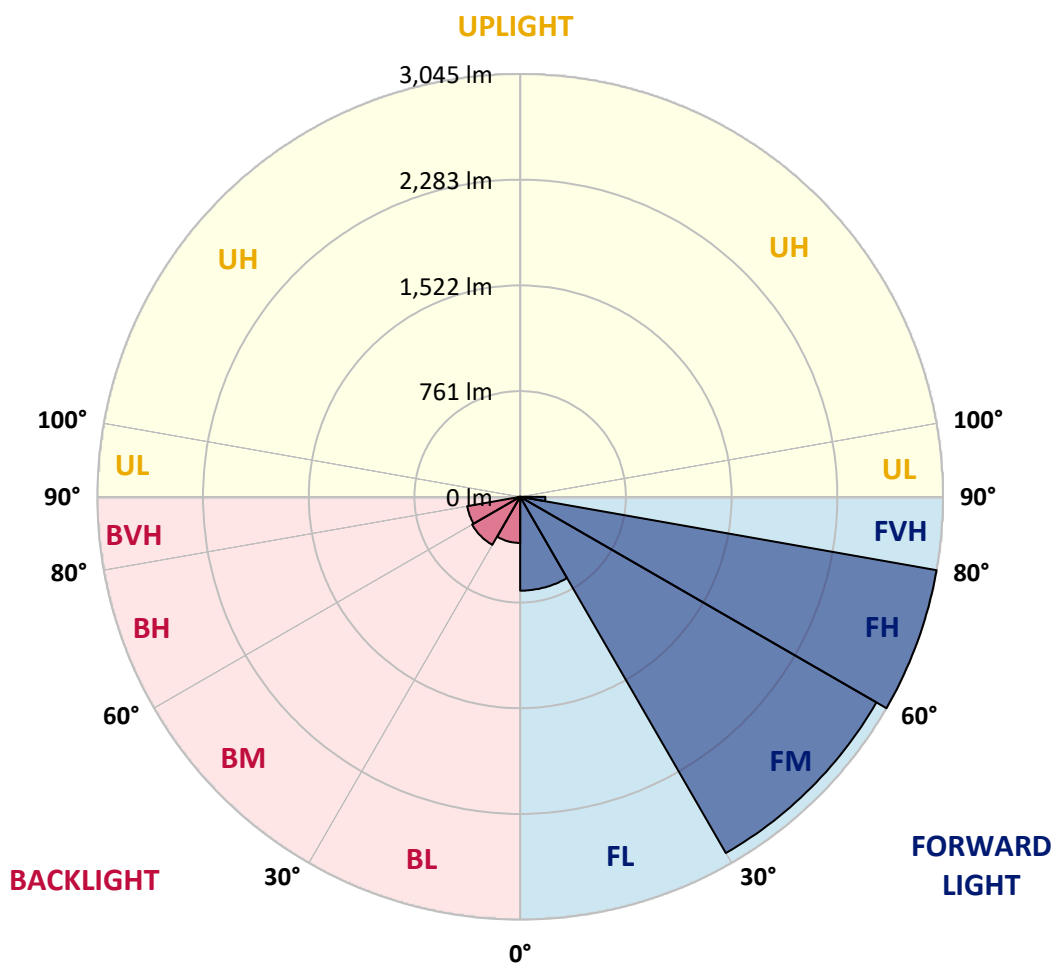
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.7	8.4			
FM	(30°-60°)	2961.8	37.0			
FH	(60°-80°)	3044.6	38.0			G2/5000
FVH	(80°-90°)	181.4	2.3			G2/225
BL	(0°-30°)	332.1	4.2	B1/500		
BM	(30°-60°)	400.0	5.0	B1/1000		
BH	(60°-80°)	387.0	4.8	B1/500		G1/500
BVH	(80°-90°)	19.3	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0
2.5°	2080.8	2085.4	2083.5	2082.3	2085.8	2080.4	2069.2	2065.7	2060.3	2047.5	2025.9
5°	2002.7	2016.6	2015.8	2026.3	2043.6	2048.3	2043.3	2044.0	2034.0	2018.1	1982.2
7.5°	1867.8	1873.6	1876.7	1899.5	1931.2	1956.7	1978.3	1985.3	1980.6	1967.1	1920.7
10°	1728.6	1733.3	1740.6	1767.3	1807.5	1842.6	1883.6	1907.2	1917.2	1914.9	1863.1
12.5°	1609.2	1613.8	1623.5	1653.6	1701.6	1744.9	1804.4	1833.8	1857.7	1872.0	1816.4
15°	1502.1	1512.2	1521.4	1556.2	1609.9	1666.8	1734.0	1771.1	1808.2	1840.3	1775.0
17.5°	1418.6	1428.7	1434.1	1465.8	1523.0	1592.6	1671.4	1715.1	1761.5	1814.0	1734.0
20°	1370.3	1374.9	1372.6	1390.4	1441.8	1515.6	1609.2	1659.8	1715.9	1789.3	1693.1
22.5°	1356.8	1357.1	1348.6	1346.7	1380.0	1442.2	1542.7	1604.1	1673.0	1773.1	1657.9
25°	1389.6	1388.5	1365.3	1346.3	1349.8	1386.1	1478.5	1550.0	1637.0	1769.6	1630.8
27.5°	1462.7	1466.2	1431.8	1396.2	1361.0	1359.9	1429.8	1505.2	1607.6	1785.4	1619.2
30°	1565.1	1570.9	1534.2	1489.0	1422.9	1368.4	1410.9	1478.5	1589.5	1818.3	1617.3
32.5°	1677.2	1683.4	1655.6	1608.0	1521.4	1420.9	1424.0	1480.8	1588.7	1864.3	1630.4
35°	1796.6	1803.6	1789.3	1749.1	1652.9	1518.0	1474.3	1518.3	1613.8	1934.6	1665.6
37.5°	1930.0	1940.8	1944.7	1906.4	1803.6	1645.9	1556.6	1589.5	1670.6	2032.4	1730.2
40°	2122.1	2137.2	2136.0	2081.1	1976.4	1818.7	1683.8	1692.3	1759.2	2163.1	1833.4
42.5°	2490.1	2493.2	2396.9	2277.5	2166.6	2000.4	1833.8	1826.8	1881.3	2328.5	1985.3
45°	2958.2	2945.5	2731.3	2500.5	2365.3	2209.1	2029.0	1994.9	2036.3	2530.3	2175.5
47.5°	3346.7	3317.3	3046.7	2728.2	2575.5	2436.0	2258.2	2198.7	2221.5	2759.1	2421.3
50°	3481.6	3459.6	3235.4	2917.6	2774.6	2712.8	2540.4	2456.1	2462.3	3032.0	2709.3
52.5°	3452.6	3449.5	3299.9	3042.5	2960.9	3003.4	2940.0	2826.0	2765.7	3335.1	3020.1
55°	3384.2	3390.7	3336.6	3187.8	3173.9	3284.1	3462.3	3378.0	3190.5	3640.8	3341.3
57.5°	3146.5	3163.5	3282.5	3370.6	3516.8	3680.7	3882.8	3858.8	3647.8	3971.3	3723.2
60°	2534.9	2574.4	2893.7	3335.1	3869.7	4382.2	4472.7	4417.0	4119.4	4381.5	4227.6
62.5°	1776.2	1817.1	2196.7	2887.5	3811.7	5174.6	5527.2	5287.1	4796.6	4985.6	4880.5
65°	950.9	970.6	1260.5	2003.4	3218.0	5338.1	7068.3	6703.0	5868.9	5730.5	5439.0
67.5°	524.5	535.4	646.3	1011.6	2061.0	4700.7	8050.1	8326.1	7209.0	6226.4	5337.4
69°	474.3	484.3	557.0	766.1	1379.2	3886.7	7954.3	8754.0	7796.6	6177.3	4961.7
70°	463.9	473.1	538.5	706.2	1116.3	3203.7	7633.0	8644.6	7936.5	6001.5	4633.9
72.5°	417.5	427.5	490.9	634.3	954.0	1597.2	6046.3	7309.1	7205.5	5203.6	3514.8
75°	389.2	398.5	506.0	621.2	913.4	1010.8	3986.0	5386.9	5296.8	3640.1	1895.2
77.5°	166.6	165.8	234.6	525.7	926.9	978.7	2141.8	3365.2	3070.3	1555.8	544.3
80°	111.3	109.4	111.3	154.6	850.0	984.1	1122.1	1708.1	1290.3	396.6	268.3
82.5°	95.9	94.3	97.8	94.3	298.8	1123.3	954.0	908.4	613.4	225.4	133.0
85°	64.6	61.8	84.3	84.7	141.1	998.1	1074.6	767.3	496.3	133.7	65.7
87.5°	30.9	30.2	49.1	59.9	82.7	405.5	1205.6	786.2	500.6	68.4	31.3
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°	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0	2039.0
2.5°	2019.3	2003.4	1988.0	1969.4	1950.1	1928.5	1917.6	1906.8	1904.1	1901.0	1890.2
5°	1963.6	1941.2	1902.6	1860.0	1815.2	1771.5	1738.3	1717.4	1701.6	1693.4	1679.1
7.5°	1891.7	1858.9	1791.2	1717.8	1642.4	1573.6	1514.1	1476.6	1441.0	1424.4	1405.5
10°	1823.3	1774.2	1669.1	1560.9	1452.6	1348.6	1250.9	1181.7	1120.2	1085.8	1061.4
12.5°	1764.6	1697.3	1551.6	1405.1	1256.6	1108.6	962.1	846.9	750.7	700.0	674.1
15°	1707.4	1626.2	1439.9	1253.9	1063.4	862.0	669.5	538.8	459.2	427.5	416.7
17.5°	1655.6	1551.6	1327.8	1101.6	863.9	620.4	449.9	378.0	347.5	337.1	333.6
20°	1599.5	1476.2	1211.4	942.4	656.0	433.7	351.4	319.7	307.3	304.2	302.7
22.5°	1545.4	1402.0	1100.1	771.9	471.2	334.7	301.9	288.7	286.8	289.5	289.5
25°	1499.4	1335.5	979.9	593.7	346.0	281.8	270.2	267.1	274.4	284.5	286.4
27.5°	1465.0	1281.0	851.9	438.3	275.6	245.1	244.7	249.7	267.9	287.2	291.1
30°	1441.4	1229.2	715.1	316.2	231.2	215.7	221.9	232.7	259.4	286.8	294.2
32.5°	1429.4	1190.9	572.5	244.7	197.9	189.4	199.8	213.0	239.3	264.8	274.4
35°	1438.7	1162.7	438.0	204.1	174.7	168.1	179.0	191.7	207.2	218.0	225.4
37.5°	1473.5	1151.5	330.5	182.8	158.9	152.7	161.2	168.5	174.7	177.8	181.3
40°	1548.5	1163.5	264.8	172.0	150.0	142.2	145.7	148.4	152.3	155.4	156.9
42.5°	1659.0	1199.4	237.3	167.8	145.3	134.1	133.4	134.5	139.5	145.3	146.5
45°	1813.7	1262.8	235.4	170.5	143.0	127.6	124.1	125.6	133.4	142.2	143.8
47.5°	2011.2	1359.5	250.9	178.6	145.0	124.1	118.3	120.2	129.9	141.9	143.8
50°	2250.4	1494.4	276.8	190.6	153.5	124.9	116.3	117.5	127.6	140.7	142.6
52.5°	2533.0	1685.7	305.0	202.2	162.3	129.9	117.9	115.2	124.5	136.1	138.4
55°	2847.3	1931.2	334.0	212.6	167.0	136.1	121.0	112.1	118.7	128.3	130.3
57.5°	3233.0	2274.4	384.2	222.6	170.1	140.3	124.1	109.0	111.3	118.3	119.8
60°	3755.3	2759.9	472.7	239.3	177.0	141.9	123.7	106.3	104.0	107.8	108.6
62.5°	4381.1	3287.2	546.6	260.1	188.6	143.0	121.4	104.4	97.8	97.8	98.6
65°	4752.5	3428.2	505.6	277.5	198.3	141.9	118.7	102.4	93.2	88.9	89.3
67.5°	4437.5	3015.0	433.3	281.0	197.9	136.4	114.4	99.0	88.5	81.9	81.6
69°	4042.8	2601.4	400.8	271.7	188.6	129.5	109.0	95.1	85.0	78.1	77.7
70°	3724.7	2349.0	379.6	261.7	178.6	124.5	104.8	91.6	82.3	75.8	75.0
72.5°	2708.1	1539.2	324.3	225.0	147.3	104.4	90.5	80.4	73.4	69.6	68.8
75°	1353.3	734.0	263.2	182.4	112.9	83.5	74.2	67.3	63.8	63.0	62.6
77.5°	444.5	336.3	188.2	136.1	83.9	65.3	59.9	54.9	54.1	56.4	55.7
80°	244.3	195.6	119.4	90.1	57.2	47.9	47.2	44.5	45.6	49.5	48.7
82.5°	124.5	101.7	73.8	54.1	38.7	34.4	37.5	35.9	37.5	41.0	40.6
85°	61.5	55.7	46.8	32.9	25.5	22.0	26.7	27.8	28.6	31.3	31.3
87.5°	35.6	32.9	24.7	15.5	12.8	11.6	15.5	15.1	17.8	19.3	18.9
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)