

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: P200614

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200614
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: GWC-AF-02-LED-E1-SL3-8030-800
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8191 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - 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

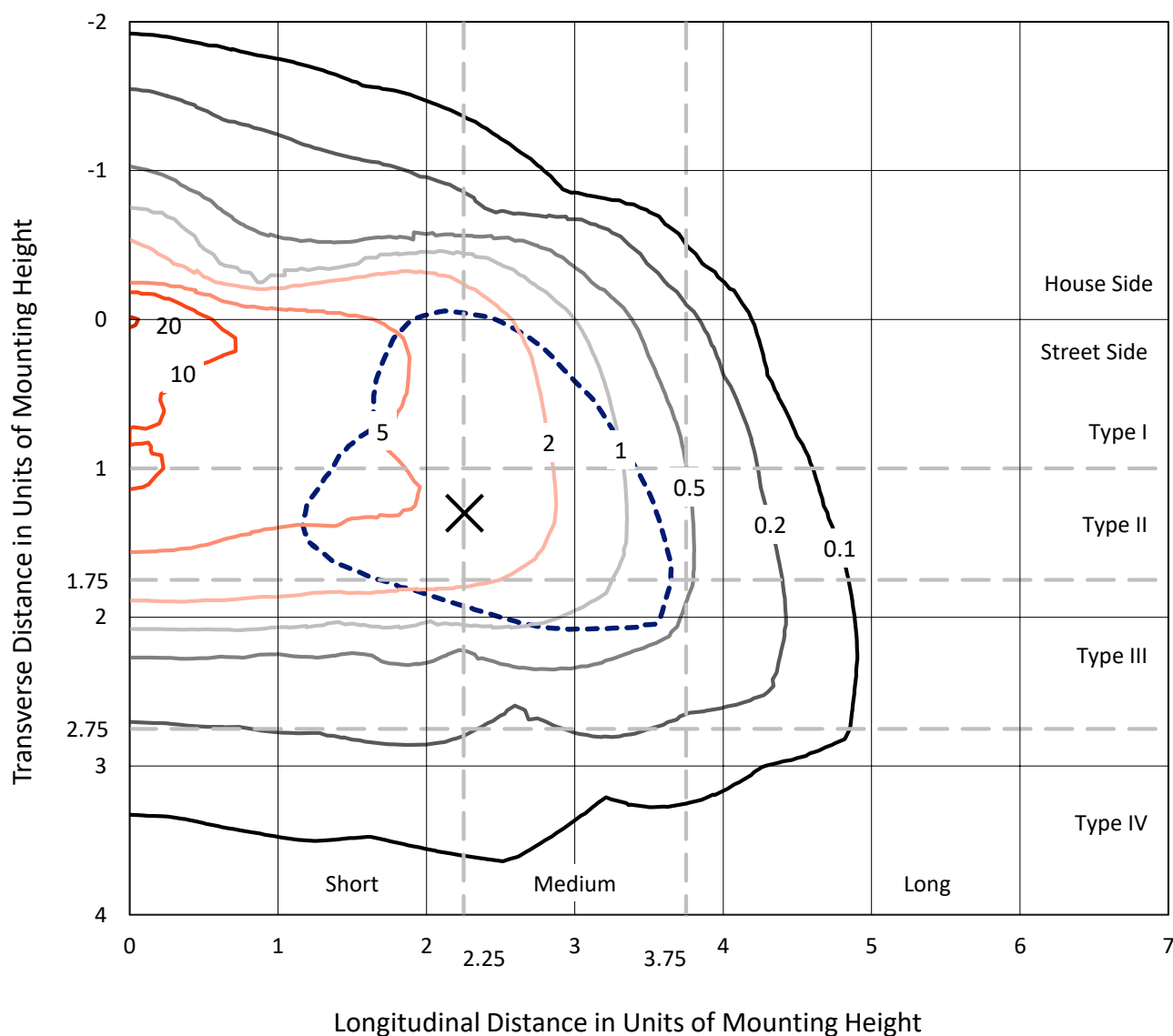


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

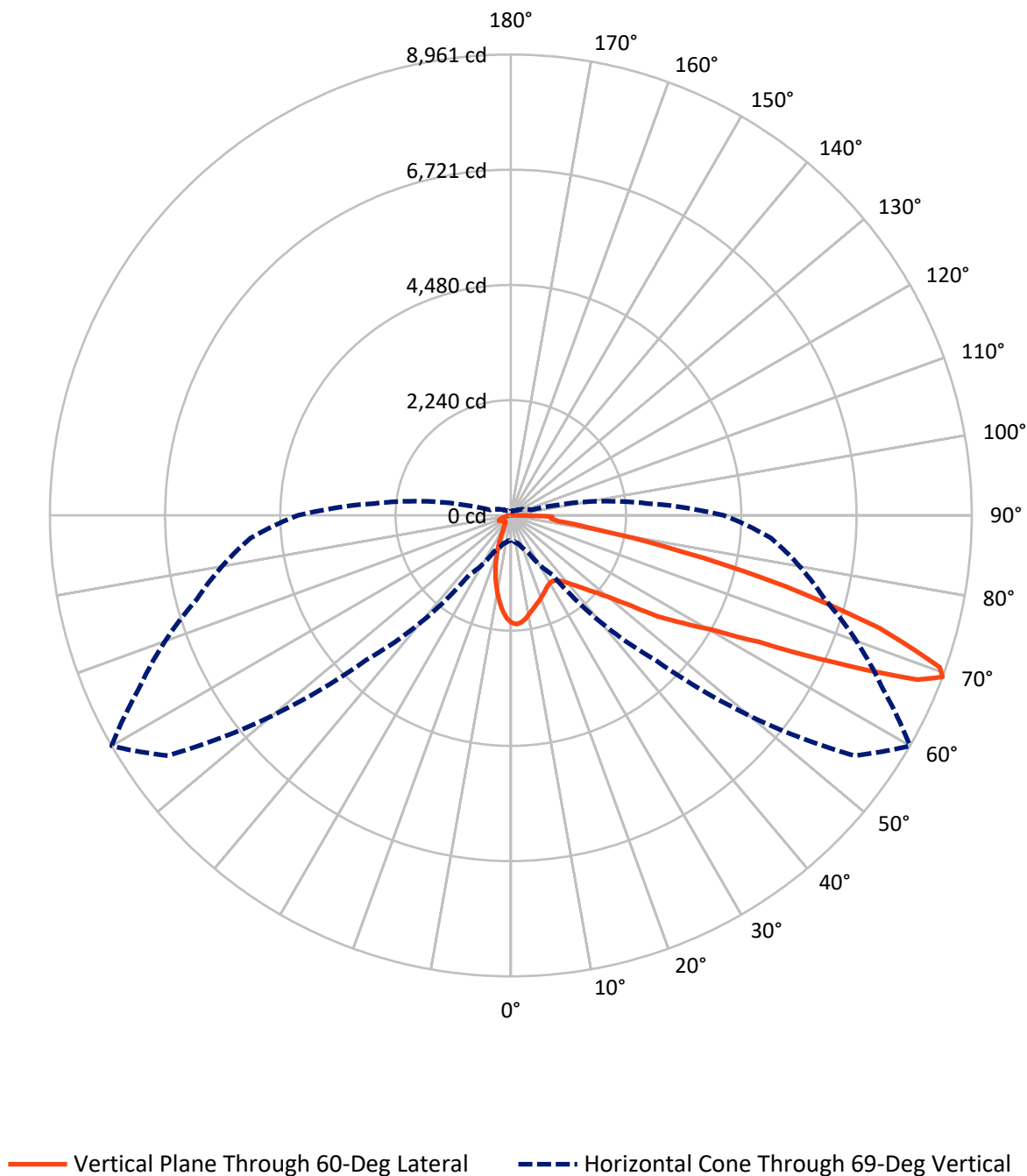


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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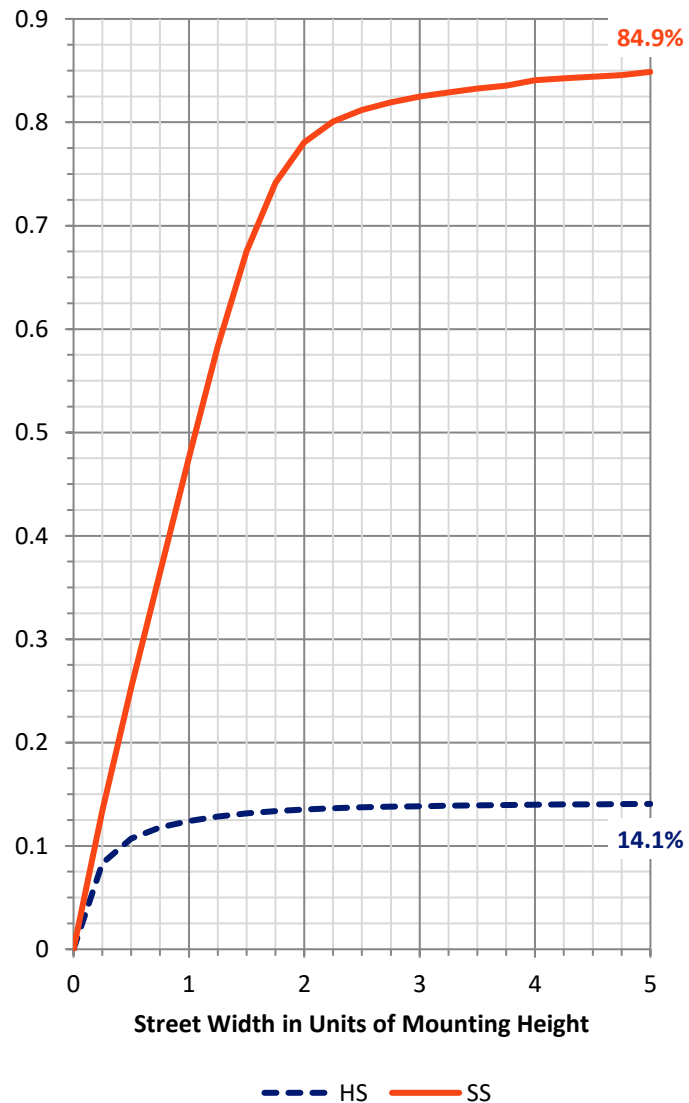
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.3	0.0	1165.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7025.7	0.0	7025.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	8191.0	0.0	8191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	2.2
10°-20°	376.0	4.6
20°-30°	479.1	5.8
30°-40°	658.6	8.0
40°-50°	1068.7	13.0
50°-60°	1713.9	20.9
60°-70°	2281.1	27.8
70°-80°	1231.6	15.0
80°-90°	205.5	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°	8191.0	100.0
0°-180°	8191.0	100.0

Coefficient of Utilization



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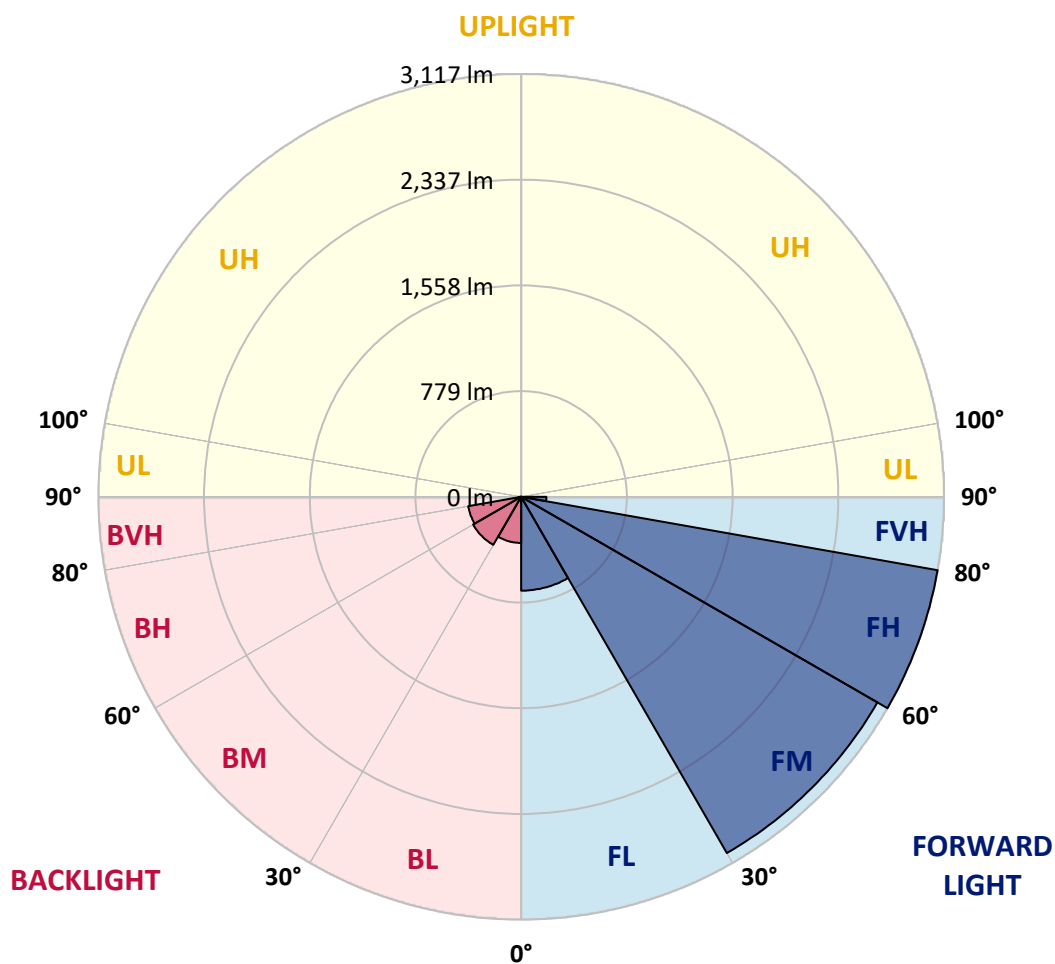
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.6	8.4			
FM	(30°-60°)	3031.8	37.0			
FH	(60°-80°)	3116.5	38.0			G2/5000
FVH	(80°-90°)	185.7	2.3			G2/225
BL	(0°-30°)	340.0	4.2	B1/500		
BM	(30°-60°)	409.4	5.0	B1/1000		
BH	(60°-80°)	396.2	4.8	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2129.9	2134.7	2132.7	2131.5	2135.1	2129.5	2118.1	2114.5	2109.0	2095.9	2073.7
5°	2050.0	2064.2	2063.5	2074.1	2091.9	2096.7	2091.5	2092.3	2082.0	2065.8	2029.0
7.5°	1911.9	1917.8	1921.0	1944.4	1976.8	2002.9	2025.1	2032.2	2027.4	2013.6	1966.1
10°	1769.5	1774.2	1781.7	1809.0	1850.2	1886.2	1928.1	1952.3	1962.6	1960.2	1907.2
12.5°	1647.2	1651.9	1661.8	1692.7	1741.8	1786.1	1847.0	1877.1	1901.6	1916.3	1859.3
15°	1537.6	1547.9	1557.4	1593.0	1648.0	1706.2	1775.0	1813.0	1851.0	1883.8	1816.9
17.5°	1452.1	1462.4	1468.0	1500.4	1559.0	1630.2	1710.9	1755.6	1803.1	1856.9	1775.0
20°	1402.7	1407.4	1405.0	1423.2	1475.9	1551.4	1647.2	1699.0	1756.4	1831.6	1733.1
22.5°	1388.8	1389.2	1380.5	1378.5	1412.6	1476.3	1579.1	1642.1	1712.5	1815.0	1697.1
25°	1422.5	1421.3	1397.5	1378.1	1381.7	1418.9	1513.5	1586.7	1675.7	1811.4	1669.4
27.5°	1497.2	1500.8	1465.6	1429.2	1393.2	1392.0	1463.6	1540.8	1645.6	1827.6	1657.5
30°	1602.1	1608.0	1570.4	1524.1	1456.5	1400.7	1444.2	1513.5	1627.0	1861.3	1655.5
32.5°	1716.8	1723.2	1694.7	1646.0	1557.4	1454.5	1457.7	1515.8	1626.2	1908.3	1669.0
35°	1839.1	1846.2	1831.6	1790.4	1691.9	1553.8	1509.1	1554.2	1651.9	1980.4	1705.0
37.5°	1975.6	1986.7	1990.6	1951.5	1846.2	1684.8	1593.4	1627.0	1710.1	2080.5	1771.0
40°	2172.3	2187.7	2186.5	2130.3	2023.1	1861.7	1723.6	1732.3	1800.7	2214.2	1876.7
42.5°	2548.9	2552.1	2453.6	2331.3	2217.8	2047.6	1877.1	1870.0	1925.8	2383.6	2032.2
45°	3028.1	3015.1	2795.8	2559.6	2421.1	2261.3	2076.9	2042.1	2084.4	2590.1	2226.9
47.5°	3425.8	3395.7	3118.7	2792.7	2636.4	2493.6	2311.5	2250.6	2274.0	2824.3	2478.5
50°	3563.9	3541.3	3311.8	2986.6	2840.2	2776.9	2600.4	2514.1	2520.5	3103.7	2773.3
52.5°	3534.2	3531.0	3377.9	3114.4	3030.9	3074.4	3009.5	2892.8	2831.1	3413.9	3091.4
55°	3464.1	3470.9	3415.5	3263.1	3248.9	3361.7	3544.1	3457.8	3265.9	3726.9	3420.2
57.5°	3220.8	3238.2	3360.1	3450.3	3599.9	3767.6	3974.6	3950.0	3734.0	4065.2	3811.2
60°	2594.8	2635.2	2962.0	3413.9	3961.1	4485.8	4578.4	4521.4	4216.7	4485.0	4327.5
62.5°	1818.1	1860.1	2248.6	2955.7	3901.8	5296.9	5657.8	5412.1	4909.9	5103.4	4995.8
65°	973.4	993.5	1290.3	2050.8	3294.0	5464.3	7235.3	6861.4	6007.5	5865.9	5567.6
67.5°	536.9	548.0	661.6	1035.5	2109.7	4811.8	8240.3	8522.9	7379.4	6373.5	5463.5
69°	485.5	495.8	570.2	784.2	1411.8	3978.5	8142.2	8960.9	7980.8	6323.3	5078.9
70°	474.8	484.3	551.2	722.9	1142.7	3279.4	7813.4	8848.9	8124.0	6143.3	4743.4
72.5°	427.3	437.6	502.5	649.3	976.5	1634.9	6189.2	7481.8	7375.8	5326.6	3597.9
75°	398.4	407.9	517.9	635.9	935.0	1034.7	4080.2	5514.1	5421.9	3726.1	1940.0
77.5°	170.5	169.7	240.2	538.1	948.8	1001.9	2192.4	3444.8	3142.9	1592.6	557.1
80°	114.0	112.0	114.0	158.3	870.1	1007.4	1148.6	1748.5	1320.8	406.0	274.6
82.5°	98.1	96.5	100.1	96.5	305.9	1149.8	976.5	929.8	627.9	230.7	136.1
85°	66.1	63.3	86.3	86.7	144.4	1021.6	1100.0	785.4	508.0	136.9	67.3
87.5°	31.7	30.9	50.3	61.3	84.7	415.1	1234.1	804.8	512.4	70.0	32.0
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°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2067.0	2050.8	2035.0	2016.0	1996.2	1974.0	1962.9	1951.9	1949.1	1945.9	1934.9
5°	2010.0	1987.1	1947.5	1904.0	1858.1	1813.4	1779.4	1758.0	1741.8	1733.5	1718.8
7.5°	1936.4	1902.8	1833.6	1758.4	1681.2	1610.8	1549.9	1511.5	1475.1	1458.1	1438.7
10°	1866.4	1816.2	1708.5	1597.7	1487.0	1380.5	1280.4	1209.6	1146.7	1111.5	1086.5
12.5°	1806.3	1737.4	1588.2	1438.3	1286.3	1134.8	984.8	866.9	768.4	716.6	690.1
15°	1747.7	1664.6	1473.9	1283.6	1088.5	882.4	685.3	551.6	470.1	437.6	426.5
17.5°	1694.7	1588.2	1359.1	1127.7	884.3	635.1	460.6	387.0	355.7	345.0	341.5
20°	1637.3	1511.1	1240.0	964.7	671.5	443.9	359.7	327.2	314.6	311.4	309.8
22.5°	1581.9	1435.1	1126.1	790.2	482.3	342.7	309.0	295.6	293.6	296.4	296.4
25°	1534.8	1367.1	1003.0	607.8	354.1	288.4	276.6	273.4	280.9	291.2	293.2
27.5°	1499.6	1311.3	872.1	448.7	282.1	250.9	250.5	255.6	274.2	294.0	297.9
30°	1475.5	1258.2	732.0	323.7	236.6	220.8	227.1	238.2	265.5	293.6	301.1
32.5°	1463.2	1219.1	586.0	250.5	202.6	193.9	204.6	218.0	244.9	271.0	280.9
35°	1472.7	1190.2	448.3	208.9	178.8	172.1	183.2	196.3	212.1	223.2	230.7
37.5°	1508.3	1178.7	338.3	187.2	162.6	156.3	165.0	172.5	178.8	182.0	185.6
40°	1585.1	1191.0	271.0	176.1	153.5	145.6	149.2	151.9	155.9	159.1	160.6
42.5°	1698.2	1227.8	242.9	171.7	148.8	137.3	136.5	137.7	142.8	148.8	150.0
45°	1856.5	1292.7	241.0	174.5	146.4	130.6	127.0	128.6	136.5	145.6	147.2
47.5°	2058.7	1391.6	256.8	182.8	148.4	127.0	121.1	123.1	132.9	145.2	147.2
50°	2303.6	1529.7	283.3	195.1	157.1	127.8	119.1	120.3	130.6	144.0	146.0
52.5°	2592.9	1725.5	312.2	206.9	166.2	132.9	120.7	117.9	127.4	139.3	141.7
55°	2914.5	1976.8	341.9	217.6	170.9	139.3	123.8	114.7	121.5	131.4	133.3
57.5°	3309.4	2328.2	393.3	227.9	174.1	143.6	127.0	111.6	114.0	121.1	122.7
60°	3844.0	2825.1	483.9	244.9	181.2	145.2	126.6	108.8	106.4	110.4	111.2
62.5°	4484.6	3364.8	559.5	266.3	193.1	146.4	124.2	106.8	100.1	100.1	100.9
65°	4864.8	3509.3	517.5	284.1	203.0	145.2	121.5	104.9	95.4	91.0	91.4
67.5°	4542.4	3086.3	443.6	287.7	202.6	139.7	117.1	101.3	90.6	83.9	83.5
69°	4138.4	2662.9	410.3	278.2	193.1	132.6	111.6	97.3	87.0	79.9	79.5
70°	3812.7	2404.5	388.6	267.9	182.8	127.4	107.2	93.8	84.3	77.6	76.8
72.5°	2772.1	1575.6	332.0	230.3	150.8	106.8	92.6	82.3	75.2	71.2	70.4
75°	1385.3	751.4	269.5	186.8	115.5	85.5	76.0	68.8	65.3	64.5	64.1
77.5°	455.0	344.2	192.7	139.3	85.9	66.9	61.3	56.2	55.4	57.8	57.0
80°	250.1	200.2	122.3	92.2	58.6	49.1	48.3	45.5	46.7	50.6	49.9
82.5°	127.4	104.1	75.6	55.4	39.6	35.2	38.4	36.8	38.4	41.9	41.5
85°	62.9	57.0	47.9	33.6	26.1	22.6	27.3	28.5	29.3	32.0	32.0
87.5°	36.4	33.6	25.3	15.8	13.1	11.9	15.8	15.4	18.2	19.8	19.4
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)