

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: P192641

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20308 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 191
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

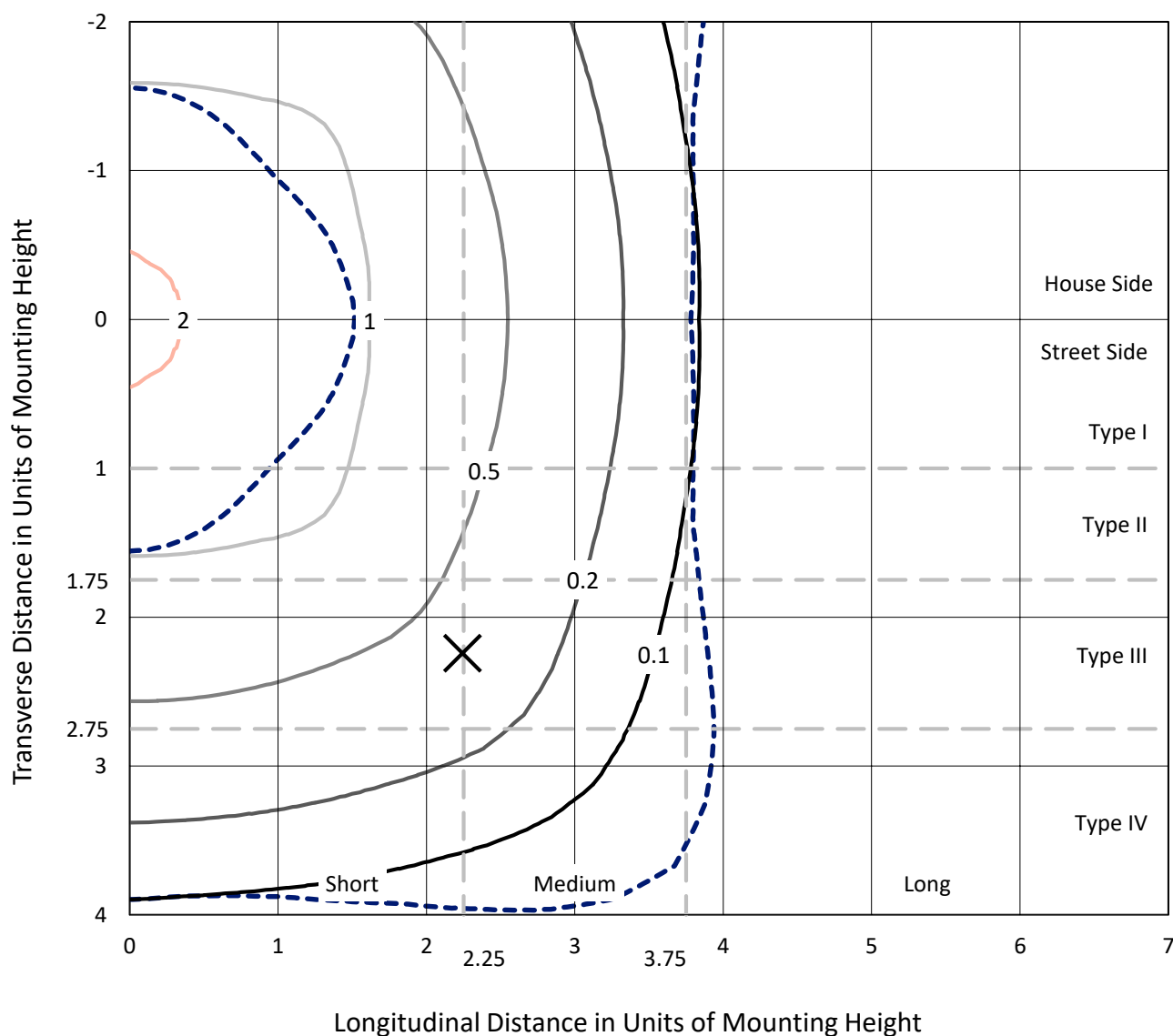


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

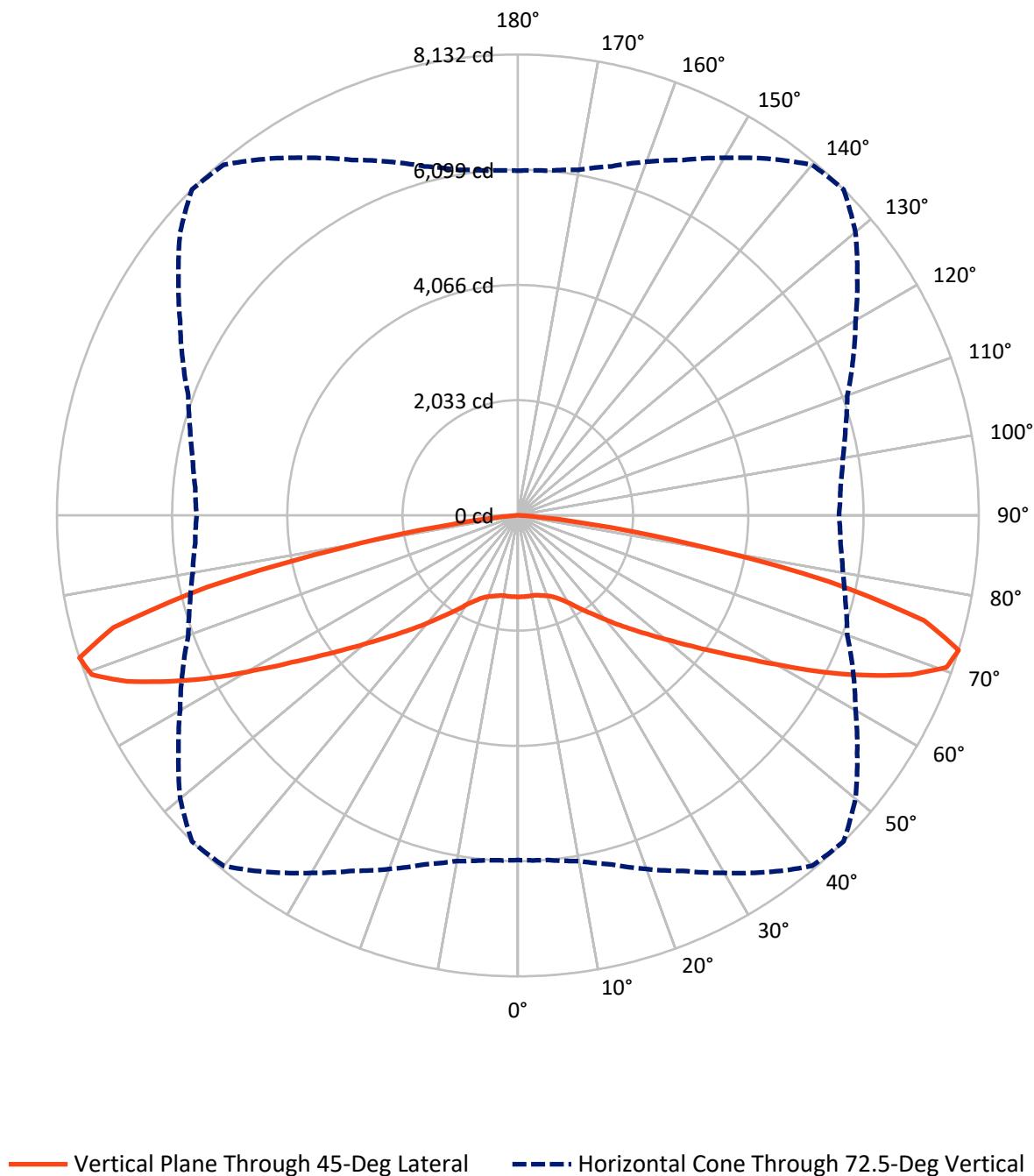


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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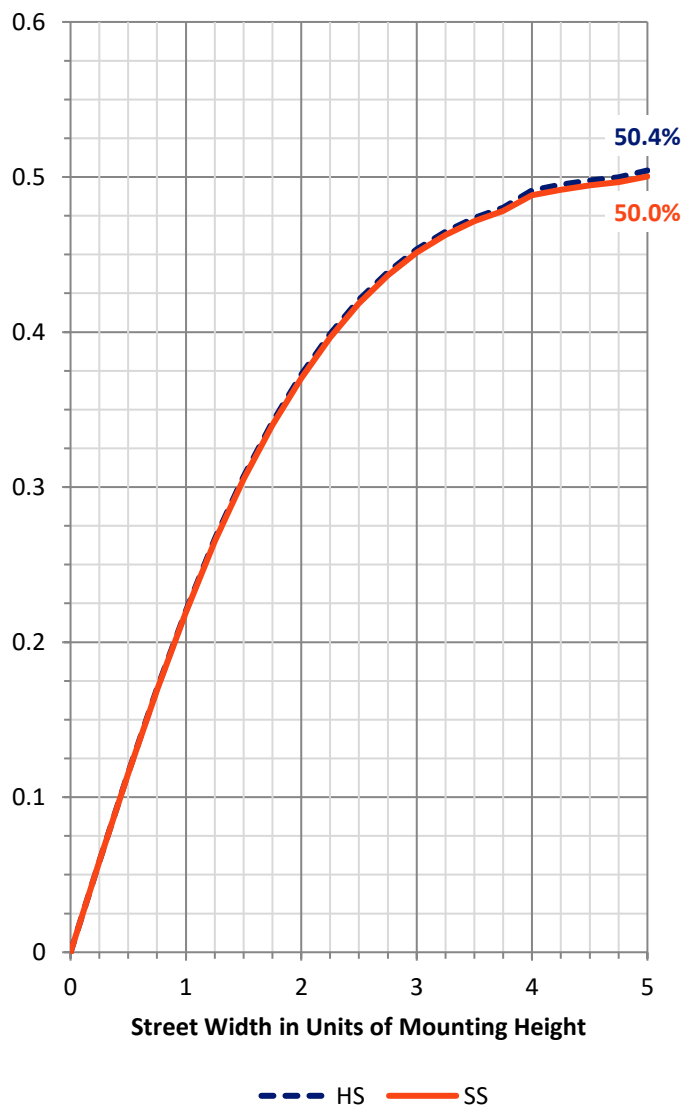
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10154.0	0.0	10154.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10154.0	0.0	10154.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20308.0	0.0	20308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	0.7
10°-20°	417.1	2.1
20°-30°	762.2	3.8
30°-40°	1314.1	6.5
40°-50°	2246.4	11.1
50°-60°	3641.2	17.9
60°-70°	6040.5	29.7
70°-80°	5320.3	26.2
80°-90°	429.0	2.1
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°	20308.0	100.0
0°-180°	20308.0	100.0

Coefficient of Utilization



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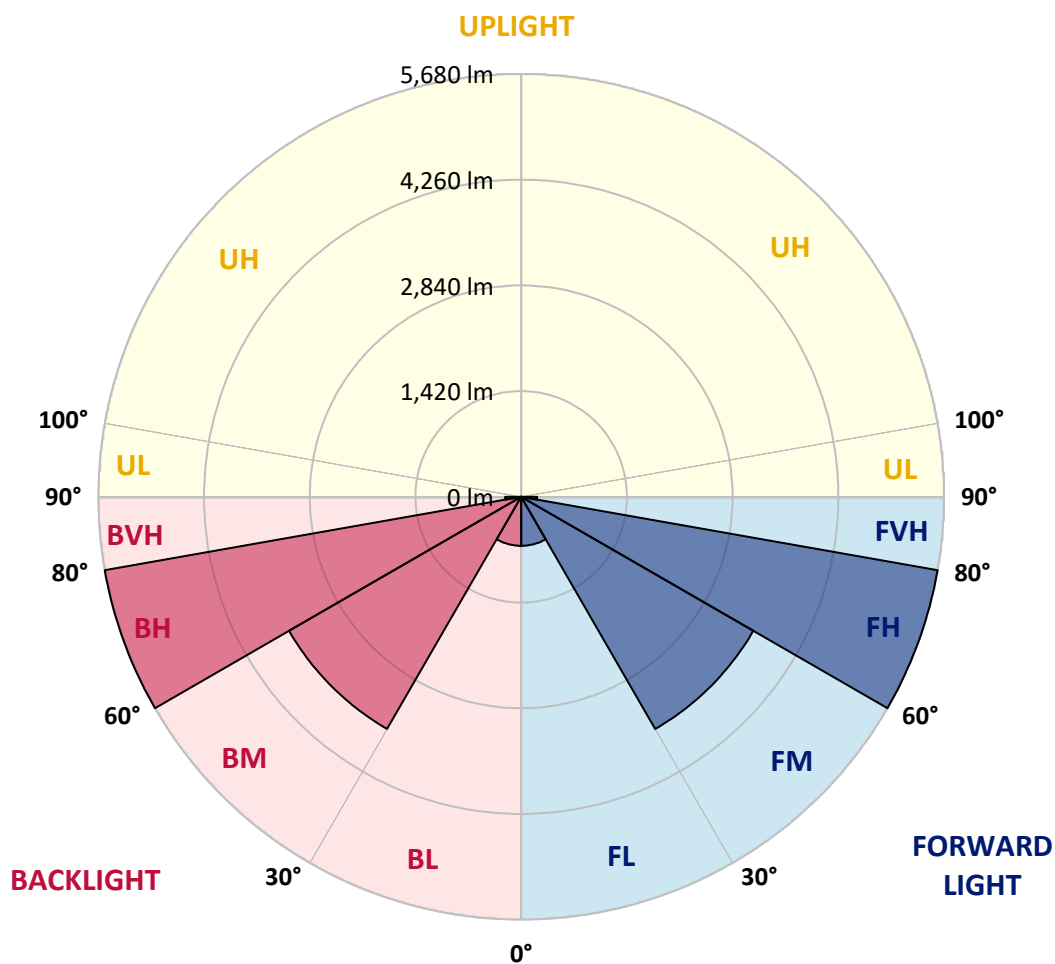
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.3	3.2			
FM	(30°-60°)	3600.8	17.7			
FH	(60°-80°)	5680.4	28.0			G3/7500
FVH	(80°-90°)	214.5	1.1			G2/225
BL	(0°-30°)	658.3	3.2	B2/1000		
BM	(30°-60°)	3600.8	17.7	B3/5000		
BH	(60°-80°)	5680.4	28.0	B5		G3/7500
BVH	(80°-90°)	214.5	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1438.1	1439.1	1440.0	1439.1	1439.1	1438.1	1437.2	1438.1	1437.2	1435.3	1436.2
5°	1442.8	1444.6	1444.6	1442.8	1443.8	1442.8	1440.9	1441.9	1440.0	1437.2	1437.2
7.5°	1448.3	1449.4	1449.4	1447.4	1448.3	1446.5	1444.6	1443.8	1441.9	1438.1	1435.3
10°	1456.8	1457.7	1456.8	1454.9	1454.9	1452.0	1447.4	1445.6	1441.9	1436.2	1433.5
12.5°	1466.0	1467.1	1466.0	1464.2	1463.3	1458.6	1454.9	1452.0	1449.4	1444.6	1440.0
15°	1479.2	1481.0	1479.2	1475.3	1472.6	1468.9	1467.1	1467.9	1468.9	1465.1	1460.5
17.5°	1503.3	1504.3	1501.4	1493.0	1489.3	1485.6	1485.6	1487.4	1490.3	1488.4	1483.7
20°	1547.9	1545.3	1538.7	1528.4	1523.8	1517.3	1516.4	1517.3	1517.3	1516.4	1512.5
22.5°	1603.9	1602.1	1593.6	1580.7	1574.1	1570.4	1564.8	1560.1	1559.2	1556.4	1552.7
25°	1671.0	1670.0	1659.7	1648.6	1644.0	1639.3	1634.6	1628.2	1622.5	1616.1	1612.3
27.5°	1756.7	1752.9	1738.1	1732.5	1726.0	1723.1	1716.6	1709.2	1704.6	1696.1	1691.5
30°	1850.8	1850.8	1838.7	1836.7	1836.7	1830.2	1822.8	1809.8	1801.3	1793.0	1790.2
32.5°	1944.9	1945.8	1933.7	1937.3	1940.1	1944.9	1946.7	1942.0	1936.4	1935.5	1929.9
35°	2080.9	2077.1	2065.0	2067.7	2066.8	2065.9	2065.9	2076.2	2078.0	2079.9	2068.8
37.5°	2249.4	2249.4	2237.3	2237.3	2231.7	2226.1	2218.6	2225.2	2235.5	2238.1	2230.7
40°	2442.2	2448.7	2433.9	2432.8	2434.8	2417.1	2408.6	2418.9	2425.4	2436.6	2428.2
42.5°	2669.4	2664.9	2649.9	2648.0	2637.8	2632.2	2624.7	2633.1	2643.4	2650.8	2653.7
45°	2887.4	2883.7	2867.0	2867.0	2856.7	2852.0	2855.7	2869.7	2874.4	2884.7	2894.9
47.5°	3102.6	3097.9	3086.8	3091.4	3092.4	3100.7	3112.8	3125.9	3138.9	3152.9	3157.5
50°	3322.3	3323.3	3311.2	3322.3	3336.3	3359.6	3392.3	3413.7	3440.7	3458.4	3463.9
52.5°	3522.6	3526.4	3539.5	3565.4	3593.4	3639.1	3694.9	3747.1	3791.9	3821.7	3819.8
55°	3763.0	3768.6	3800.2	3845.0	3890.6	3959.4	4042.4	4134.6	4209.1	4252.0	4224.9
57.5°	4070.4	4082.5	4117.9	4178.4	4246.4	4335.9	4449.5	4588.3	4703.7	4761.4	4717.7
60°	4492.3	4499.8	4542.6	4609.6	4691.6	4802.5	4954.3	5140.5	5303.6	5379.9	5329.6
62.5°	5048.4	5062.3	5096.7	5164.8	5248.6	5374.4	5559.6	5792.6	5995.6	6101.8	5988.2
65°	5712.4	5757.2	5786.1	5854.9	5933.3	6066.4	6260.1	6509.7	6727.7	6797.6	6666.2
67.5°	6370.1	6409.1	6459.4	6538.6	6617.9	6767.7	6947.5	7189.7	7429.1	7492.4	7288.4
70°	6657.8	6680.2	6758.4	6866.5	7018.3	7195.3	7403.0	7674.9	7971.1	8023.4	7764.4
72.5°	6081.3	6103.7	6191.1	6374.7	6639.2	6920.5	7282.7	7682.4	8073.6	8132.2	7775.6
75°	4599.4	4563.1	4692.5	4935.7	5292.4	5684.5	6191.1	6764.0	7329.4	7403.0	6977.3
77.5°	2377.1	2372.3	2470.2	2771.9	3197.6	3643.8	4201.7	4849.0	5402.4	5625.9	5279.3
80°	669.6	677.2	723.8	873.6	1122.4	1444.6	1880.6	2487.0	2939.6	3170.6	2976.9
82.5°	262.7	283.2	300.9	328.8	361.4	408.8	545.9	812.3	1089.8	1302.2	1066.5
85°	94.1	100.6	142.5	168.6	171.4	180.8	205.9	240.3	289.6	345.6	284.1
87.5°	35.4	39.2	45.7	75.5	74.6	68.0	82.9	86.7	65.2	59.6	73.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1	1438.1
2.5°	1434.3	1435.3	1435.3	1436.2	1437.2	1437.2	1439.1	1439.1
5°	1435.3	1435.3	1433.5	1434.3	1433.5	1433.5	1434.3	1434.3
7.5°	1433.5	1432.5	1430.6	1429.7	1427.9	1427.9	1427.9	1427.9
10°	1430.6	1429.7	1427.9	1426.9	1426.1	1426.1	1426.1	1426.1
12.5°	1438.1	1435.3	1433.5	1432.5	1432.5	1432.5	1432.5	1432.5
15°	1457.7	1451.2	1446.5	1446.5	1447.4	1449.4	1449.4	1451.2
17.5°	1481.9	1474.5	1469.7	1466.0	1467.9	1470.7	1472.6	1474.5
20°	1510.7	1507.0	1500.5	1496.9	1496.9	1500.5	1502.5	1503.3
22.5°	1550.8	1547.9	1545.3	1540.5	1540.5	1542.4	1546.1	1546.1
25°	1610.5	1608.7	1606.6	1603.0	1602.1	1602.1	1603.9	1605.8
27.5°	1685.0	1685.9	1684.0	1683.1	1680.3	1679.4	1682.1	1681.2
30°	1784.6	1789.2	1793.9	1790.2	1785.6	1782.8	1780.0	1776.2
32.5°	1919.6	1914.1	1910.4	1903.9	1895.4	1888.0	1882.4	1875.9
35°	2047.3	2038.0	2034.2	2039.9	2038.9	2034.2	2027.8	2022.2
37.5°	2203.8	2201.9	2203.8	2214.0	2212.2	2216.8	2203.8	2202.7
40°	2401.2	2403.0	2416.2	2428.2	2434.8	2441.3	2433.9	2426.3
42.5°	2630.3	2629.5	2634.0	2650.8	2662.0	2669.4	2653.7	2651.7
45°	2872.5	2866.0	2869.7	2883.7	2894.9	2903.2	2885.5	2885.5
47.5°	3138.9	3127.8	3115.6	3131.5	3137.9	3143.6	3129.6	3125.0
50°	3435.9	3412.7	3386.7	3393.1	3393.1	3391.3	3373.6	3372.8
52.5°	3777.0	3734.1	3686.6	3668.9	3658.6	3647.5	3616.7	3601.8
55°	4169.2	4104.8	4030.2	3984.6	3960.4	3929.7	3878.4	3864.5
57.5°	4627.3	4526.7	4398.2	4342.3	4288.3	4237.9	4181.2	4165.3
60°	5170.3	5022.2	4851.7	4748.4	4689.7	4641.4	4582.7	4579.8
62.5°	5775.8	5541.9	5349.3	5256.0	5213.2	5170.3	5114.4	5122.0
65°	6391.4	6147.5	5966.7	5891.3	5851.3	5815.9	5759.9	5768.4
67.5°	6998.7	6774.3	6575.9	6498.5	6453.8	6409.1	6358.9	6367.2
70°	7434.6	7156.2	6932.6	6761.2	6654.1	6533.0	6454.8	6435.3
72.5°	7309.9	6880.5	6525.6	6185.6	5986.4	5824.2	5714.3	5666.8
75°	6326.2	5739.5	5283.0	4865.8	4631.1	4440.1	4301.3	4214.6
77.5°	4698.1	4038.7	3499.3	3018.8	2638.7	2383.5	2203.8	2087.3
80°	2571.6	1956.0	1429.7	1004.9	738.6	613.8	542.2	507.6
82.5°	801.0	516.9	381.0	328.8	305.5	292.5	271.1	236.5
85°	255.2	223.6	207.7	198.5	189.1	164.9	113.6	103.4
87.5°	98.8	101.5	100.6	95.0	96.9	69.8	55.8	49.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)