

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: P193149

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T2R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6280.2 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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



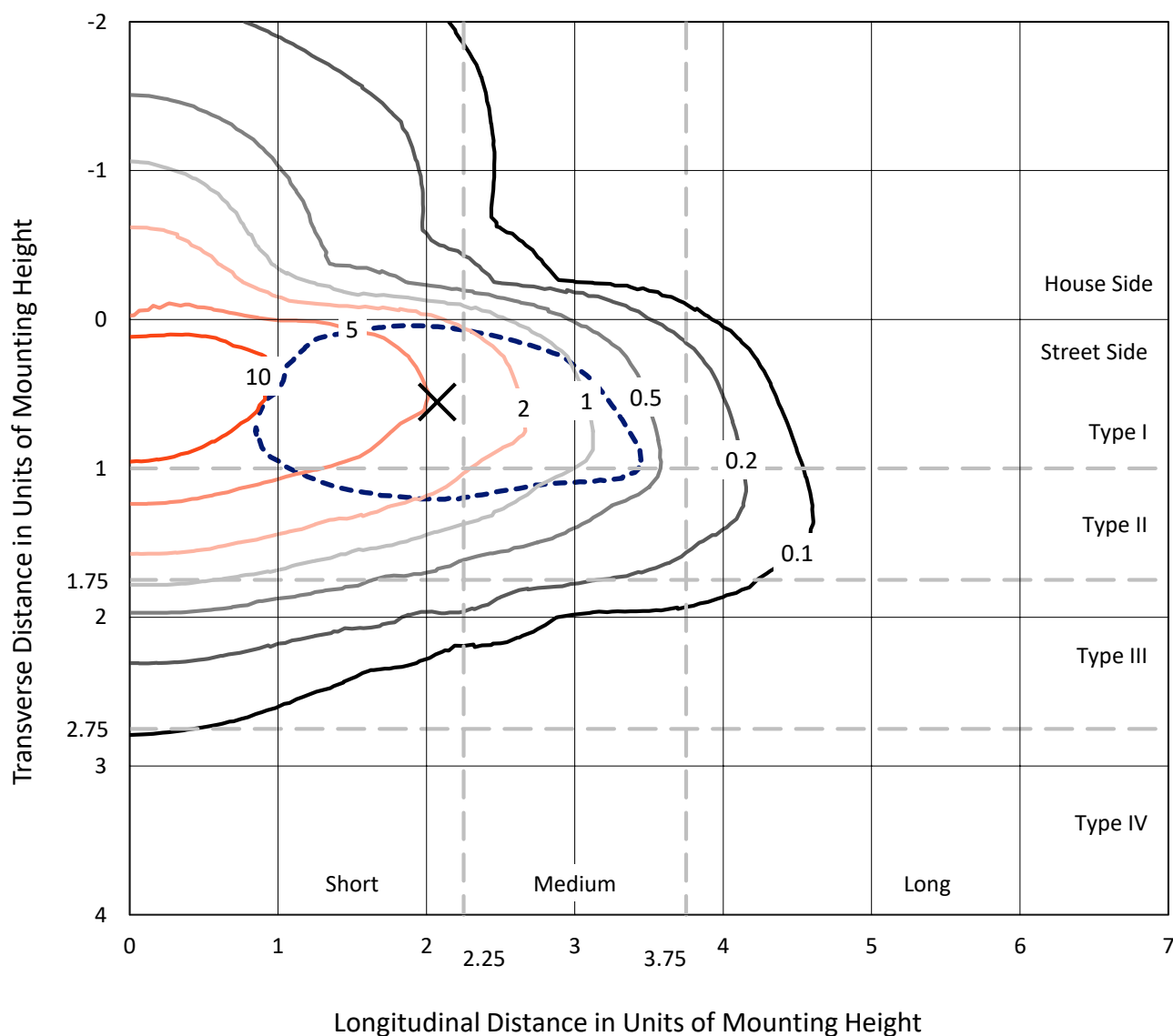
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

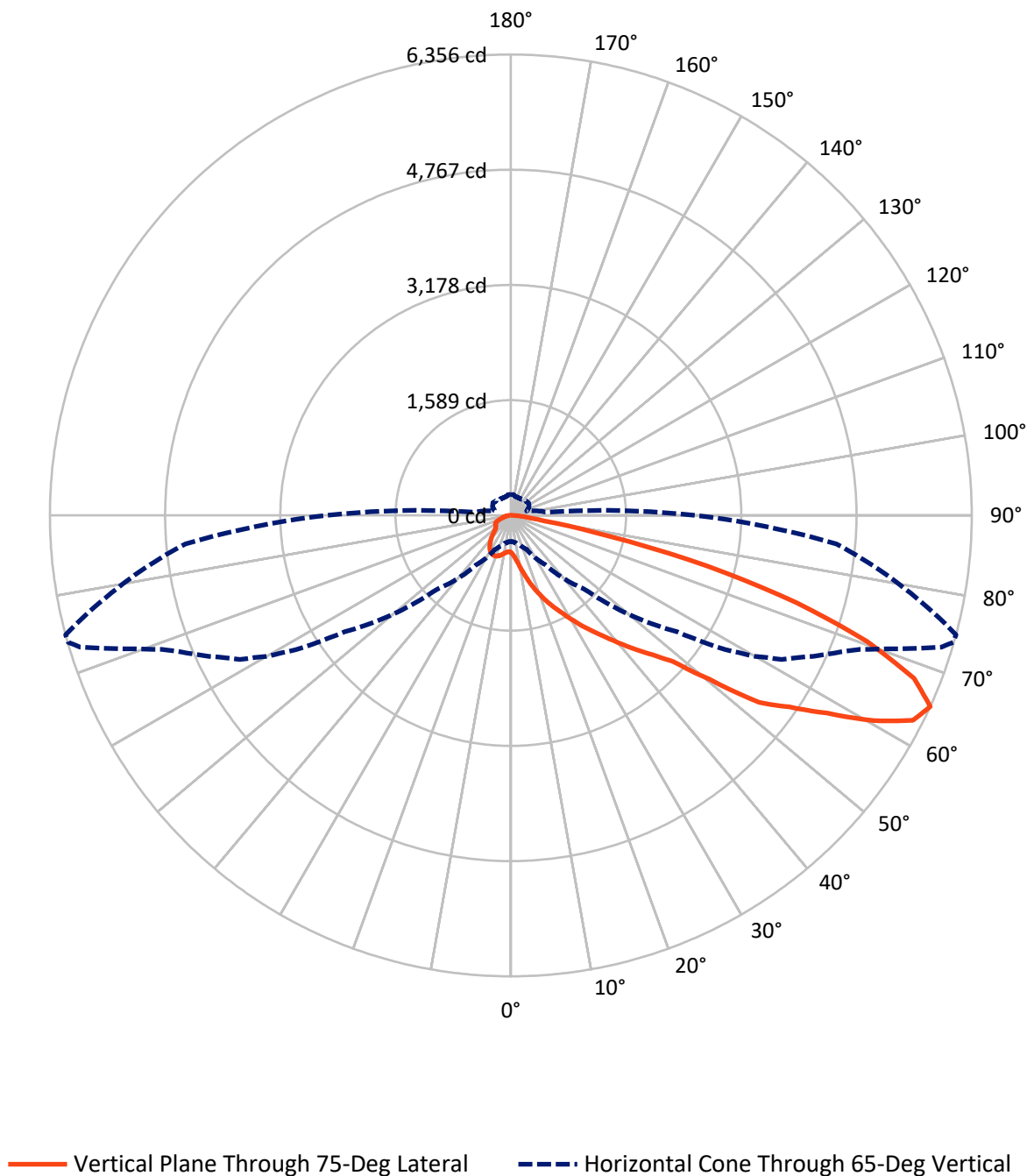


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.3	0.0	968.3
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5311.9	0.0	5311.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6280.2	0.0	6280.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.0
10°-20°	246.5	3.9
20°-30°	505.7	8.1
30°-40°	850.8	13.5
40°-50°	1175.6	18.7
50°-60°	1467.5	23.4
60°-70°	1320.6	21.0
70°-80°	553.6	8.8
80°-90°	96.7	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°	6280.2	100.0
0°-180°	6280.2	100.0

Coefficient of Utilization



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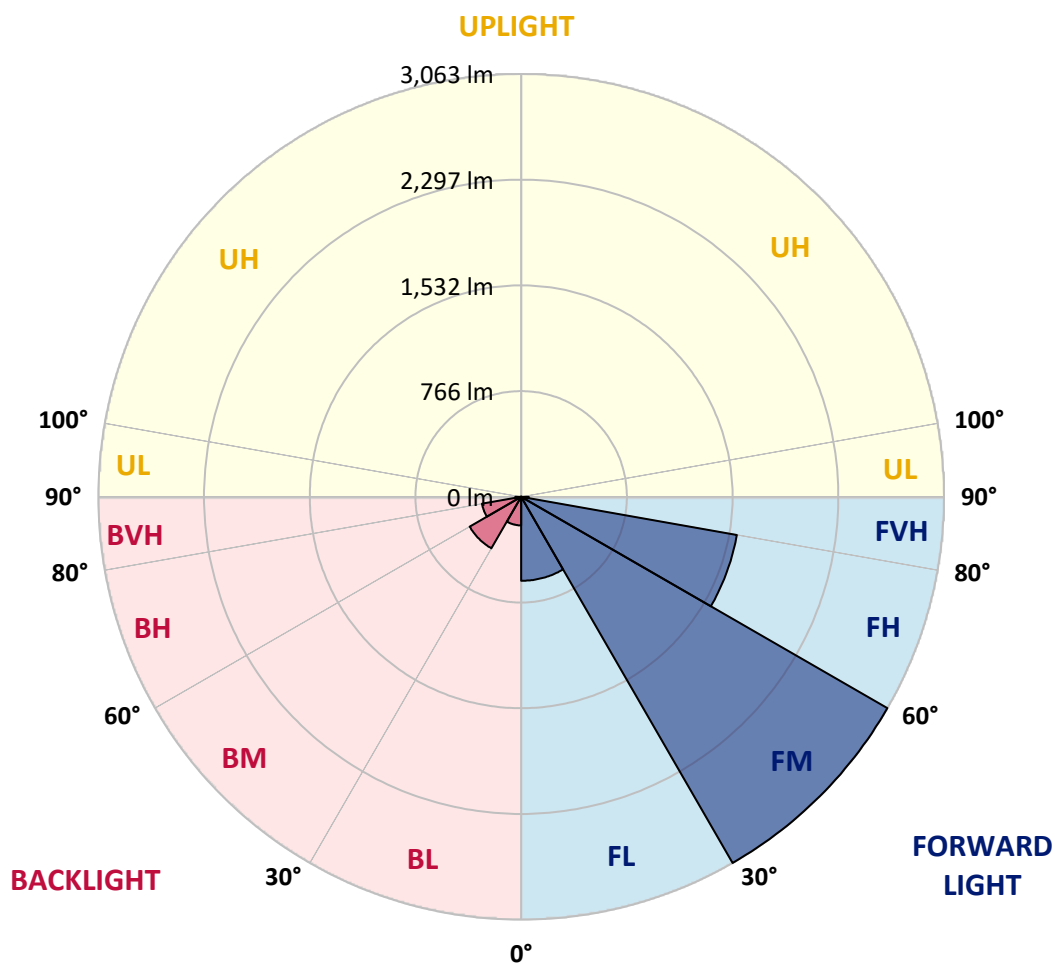
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.2	9.7			
FM	(30°-60°)	3063.0	48.8			
FH	(60°-80°)	1586.4	25.3			G1/1800
FVH	(80°-90°)	54.4	0.9			G1/100
BL	(0°-30°)	207.1	3.3	B1/500		
BM	(30°-60°)	431.0	6.9	B1/1000		
BH	(60°-80°)	287.8	4.6	B1/500		G1/500
BVH	(80°-90°)	42.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	648.0	641.0	642.7	630.8	616.2	597.2	576.2	575.8	576.2	574.0	566.3
5°	898.6	890.0	886.7	860.0	820.7	764.9	704.1	697.6	695.0	688.2	672.4
7.5°	1081.4	1076.6	1071.7	1051.4	1015.7	953.3	871.9	857.9	844.5	841.2	823.4
10°	1199.4	1198.2	1187.5	1182.1	1159.9	1105.8	1026.4	1013.1	998.5	993.3	974.7
12.5°	1292.7	1292.4	1287.4	1288.9	1269.6	1230.4	1162.0	1149.7	1139.1	1123.6	1110.3
15°	1357.2	1357.5	1364.9	1373.3	1370.3	1343.9	1279.7	1274.3	1265.1	1254.4	1238.7
17.5°	1410.2	1411.6	1419.4	1434.6	1450.9	1448.8	1398.0	1393.5	1385.5	1370.9	1362.6
20°	1529.6	1535.3	1520.5	1520.5	1522.2	1530.2	1505.9	1502.4	1491.1	1483.3	1476.7
22.5°	1731.5	1738.1	1704.5	1670.2	1636.7	1612.3	1588.0	1592.5	1584.7	1579.4	1575.4
25°	1993.7	1998.8	1944.4	1886.7	1818.3	1729.1	1668.8	1666.1	1662.0	1658.7	1656.9
27.5°	2240.5	2242.5	2191.0	2106.6	2027.3	1899.2	1750.9	1747.6	1742.4	1736.2	1730.8
30°	2451.4	2450.9	2397.9	2317.4	2232.3	2090.5	1875.4	1865.3	1850.5	1833.5	1820.4
32.5°	2634.2	2633.3	2575.5	2491.8	2402.7	2280.2	2046.0	2025.2	2002.0	1969.1	1949.0
35°	2778.1	2777.6	2722.8	2635.8	2533.5	2458.9	2241.6	2216.0	2186.6	2142.3	2111.7
37.5°	2832.5	2832.5	2802.0	2742.5	2652.2	2601.0	2458.9	2428.0	2396.5	2346.3	2311.7
40°	2800.8	2801.3	2807.9	2796.9	2752.9	2713.7	2661.7	2643.2	2616.1	2571.0	2535.1
42.5°	2694.0	2697.3	2740.7	2793.9	2815.9	2809.7	2841.5	2833.1	2814.1	2779.3	2750.8
45°	2558.8	2568.9	2616.4	2717.0	2833.4	2892.6	2992.2	2993.0	2989.6	2970.8	2948.8
47.5°	2373.0	2387.4	2450.0	2585.8	2792.4	2973.2	3145.2	3153.3	3160.8	3148.6	3138.5
50°	2126.3	2143.2	2237.2	2417.3	2708.9	3056.6	3434.4	3470.7	3504.6	3500.4	3507.3
52.5°	1862.0	1881.9	1996.9	2197.6	2565.3	3075.9	3619.4	3678.5	3737.6	3786.2	3837.6
55°	1623.6	1612.8	1727.9	1939.3	2329.3	2988.9	3785.5	3856.9	3922.9	3982.3	4043.5
57.5°	1300.5	1318.0	1433.4	1642.3	2016.9	2743.1	3900.0	4004.4	4099.2	4197.5	4284.4
60°	950.7	968.1	1093.3	1305.5	1677.6	2370.3	3812.6	3970.7	4122.7	4273.3	4391.0
62.5°	574.0	587.0	697.4	899.5	1293.6	1928.3	3423.2	3630.6	3854.2	4034.4	4214.7
65°	357.3	364.7	405.5	516.6	830.8	1439.6	2796.9	3023.1	3263.9	3492.5	3680.1
67.5°	292.5	295.2	302.6	326.3	456.2	938.7	2081.7	2282.0	2499.3	2720.4	2929.1
70°	263.1	261.2	261.2	262.8	292.5	504.8	1362.9	1493.5	1674.4	1866.8	2057.6
72.5°	237.5	235.7	232.5	228.1	238.7	308.0	704.5	802.8	933.4	1104.3	1287.1
75°	213.4	211.1	207.1	201.6	209.0	232.5	338.2	379.5	443.1	534.2	636.1
77.5°	188.5	185.5	181.9	177.8	187.3	180.8	198.3	213.2	237.5	266.6	305.0
80°	160.2	157.6	156.3	154.3	165.5	137.6	140.0	149.2	163.5	179.3	197.1
82.5°	125.4	125.4	130.2	131.1	143.5	99.0	104.7	112.6	120.0	128.4	136.7
85°	82.6	83.2	99.3	105.6	113.3	66.5	78.4	81.2	87.1	91.9	95.4
87.5°	25.9	28.0	60.6	67.2	65.1	37.8	48.2	49.3	53.5	56.9	59.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	566.3	562.6	559.4	559.2	556.7	553.5	554.7	549.6	549.9	547.3	544.3
5°	665.8	663.4	651.6	648.4	639.3	633.7	632.8	620.9	619.5	612.6	605.2
7.5°	809.2	801.4	784.8	776.8	761.5	750.3	744.9	729.2	721.4	703.6	695.6
10°	959.3	949.5	928.9	917.7	903.0	884.9	875.1	852.2	843.3	827.0	807.3
12.5°	1098.4	1088.5	1067.5	1058.8	1039.5	1020.2	1009.4	983.7	972.1	945.8	930.5
15°	1227.1	1217.2	1198.8	1190.0	1170.6	1154.9	1140.5	1115.0	1101.4	1077.0	1056.7
17.5°	1351.9	1341.4	1325.5	1317.4	1298.8	1282.7	1267.2	1243.2	1229.1	1204.8	1186.7
20°	1467.9	1460.1	1448.6	1437.9	1419.1	1404.5	1386.1	1365.3	1345.1	1327.3	1310.0
22.5°	1569.0	1565.9	1553.4	1548.7	1532.7	1520.2	1504.1	1483.6	1469.0	1446.5	1430.4
25°	1656.1	1655.2	1649.2	1647.7	1636.3	1624.4	1621.0	1604.0	1590.6	1570.7	1554.1
27.5°	1730.8	1731.8	1730.3	1734.5	1731.5	1726.2	1726.6	1720.9	1713.0	1696.5	1681.8
30°	1814.1	1809.5	1812.1	1818.0	1819.8	1820.4	1830.2	1833.5	1833.0	1821.9	1814.8
32.5°	1931.8	1920.6	1910.2	1909.3	1915.2	1917.6	1934.2	1942.8	1950.3	1953.0	1954.2
35°	2081.9	2059.4	2037.6	2026.1	2016.0	2018.7	2030.6	2044.6	2060.8	2072.2	2085.5
37.5°	2271.1	2243.4	2205.1	2177.6	2170.9	2156.0	2163.8	2174.7	2190.7	2208.3	2231.5
40°	2500.2	2458.4	2415.1	2378.9	2359.4	2331.9	2331.7	2329.6	2339.3	2355.7	2388.4
42.5°	2720.8	2683.6	2637.8	2599.9	2574.2	2537.6	2530.2	2510.9	2515.3	2529.7	2561.5
45°	2927.4	2896.8	2868.8	2824.8	2803.1	2763.6	2751.1	2728.2	2715.4	2721.9	2753.8
47.5°	3127.4	3107.8	3078.7	3050.2	3033.5	2998.1	2982.1	2965.8	2949.4	2948.8	2982.1
50°	3517.4	3507.0	3472.6	3442.9	3450.9	3407.5	3410.1	3366.2	3386.1	3388.4	3458.3
52.5°	3883.9	3920.2	3945.8	3977.0	3997.2	4001.1	4014.4	4034.4	4058.4	4106.0	4170.8
55°	4093.8	4139.3	4165.7	4189.5	4228.8	4237.1	4259.4	4285.8	4306.9	4360.4	4415.3
57.5°	4343.2	4427.6	4468.6	4506.4	4559.3	4579.5	4616.6	4645.4	4672.9	4736.2	4802.7
60°	4496.9	4599.7	4683.3	4743.1	4809.3	4856.9	4913.1	4958.1	5022.4	5098.2	5197.5
62.5°	4374.7	4525.7	4636.6	4739.1	4829.3	4920.2	5000.7	5085.2	5182.6	5297.4	5451.4
65°	3888.1	4041.8	4231.7	4338.1	4457.3	4597.6	4720.1	4856.9	4989.8	5156.8	5384.6
67.5°	3130.1	3308.8	3522.2	3629.5	3766.5	3923.2	4060.5	4227.6	4382.7	4585.2	4866.6
70°	2256.2	2487.2	2666.7	2778.8	2938.6	3100.1	3232.7	3427.0	3555.6	3763.0	4053.9
72.5°	1428.6	1610.8	1830.7	1972.0	2114.0	2277.6	2413.1	2580.8	2700.6	2889.6	3153.3
75°	768.1	902.5	1095.7	1229.7	1381.9	1521.7	1680.4	1792.7	1881.3	2030.8	2244.8
77.5°	360.0	441.7	539.5	642.7	745.8	853.5	958.1	1049.0	1087.0	1172.7	1299.0
80°	218.5	245.0	273.4	305.3	348.4	383.2	429.3	462.5	464.9	492.0	530.6
82.5°	146.0	155.8	164.4	172.4	183.4	192.1	201.8	213.4	218.2	224.4	236.9
85°	99.5	104.4	106.1	111.2	110.1	113.0	116.8	120.7	122.8	122.5	128.2
87.5°	61.1	63.6	64.8	66.0	65.1	63.9	65.7	67.7	68.4	66.5	67.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	544.8	542.2	539.5	537.8	537.1	521.3	514.5	510.1	500.6	492.9	486.6
5°	601.0	595.4	591.0	585.6	582.6	542.8	528.3	518.1	501.5	491.6	482.7
7.5°	691.4	675.7	666.5	656.0	647.2	575.1	551.1	535.4	512.2	499.1	488.9
10°	794.0	777.6	763.0	747.0	733.0	618.3	583.2	558.9	528.3	511.4	497.9
12.5°	908.4	892.3	874.0	853.5	835.7	673.0	624.2	589.5	547.5	525.0	506.2
15°	1043.7	1015.4	993.1	969.3	948.6	738.4	672.1	624.0	568.0	537.4	512.4
17.5°	1169.4	1139.7	1109.3	1088.5	1064.5	811.8	720.2	659.1	585.0	545.4	513.6
20°	1292.2	1259.8	1233.6	1205.6	1180.4	888.0	771.7	690.0	596.0	545.8	506.2
22.5°	1400.3	1380.2	1351.0	1320.7	1295.2	964.0	819.9	716.0	600.2	538.9	493.2
25°	1523.4	1502.0	1466.4	1440.8	1412.2	1041.6	867.1	736.3	597.7	526.2	473.0
27.5°	1654.8	1631.0	1594.5	1567.8	1533.2	1122.1	910.4	750.8	588.9	505.4	445.9
30°	1791.9	1770.1	1734.2	1707.1	1672.3	1207.5	959.0	760.7	571.0	476.5	414.4
32.5°	1939.1	1920.9	1885.2	1857.0	1819.8	1299.8	1004.1	763.6	544.0	442.3	381.1
35°	2078.6	2066.2	2036.1	2009.8	1971.1	1387.3	1051.9	762.2	511.9	405.0	350.7
37.5°	2236.0	2228.6	2213.7	2180.0	2132.8	1505.9	1109.3	756.0	472.6	367.6	327.6
40°	2403.6	2404.2	2388.2	2365.3	2321.3	1649.9	1177.7	743.7	429.8	335.0	306.5
42.5°	2581.0	2590.3	2582.6	2566.2	2524.0	1794.8	1259.4	728.9	388.2	303.2	285.7
45°	2784.4	2795.7	2807.6	2783.5	2742.5	1986.3	1367.1	709.5	343.3	276.8	271.4
47.5°	3019.0	3036.8	3047.5	3047.8	3006.7	2223.4	1541.8	697.9	303.5	259.0	264.5
50°	3513.9	3519.5	3544.8	3588.7	3557.3	2772.5	1847.1	690.8	276.4	247.9	259.5
52.5°	4227.0	4289.1	4332.7	4329.8	4287.0	3121.2	2015.4	653.9	260.4	243.7	257.1
55°	4517.5	4595.0	4675.9	4697.3	4663.9	3418.7	2174.5	617.1	252.7	246.7	258.1
57.5°	4904.4	5035.2	5146.1	5192.8	5144.6	3799.5	2383.7	597.7	250.3	254.8	263.7
60°	5356.6	5518.2	5663.9	5747.7	5747.7	4237.1	2600.7	589.8	247.0	266.6	273.1
62.5°	5646.9	5884.4	6104.5	6227.2	6223.6	4541.8	2696.9	562.3	239.6	275.0	286.3
65°	5648.1	5930.6	6210.9	6348.8	6355.9	4504.3	2538.0	496.7	225.9	276.1	299.4
67.5°	5177.2	5478.5	5805.1	5959.4	5995.0	4146.4	2196.9	408.4	203.7	264.3	304.1
70°	4372.7	4666.6	5000.1	5151.8	5215.1	3534.6	1769.6	314.7	175.1	238.0	294.2
72.5°	3445.0	3733.3	3965.3	4076.3	4125.6	2701.8	1288.6	237.8	143.5	200.6	267.8
75°	2439.0	2655.4	2778.8	2803.4	2811.1	1628.6	783.0	176.9	118.3	156.0	226.1
77.5°	1376.5	1469.3	1459.2	1470.2	1378.7	628.7	341.0	126.6	97.5	118.6	175.4
80°	537.4	554.1	520.5	510.1	467.8	234.0	150.4	88.3	77.9	89.8	122.8
82.5°	236.9	244.6	237.5	239.3	228.9	120.7	90.0	63.9	59.4	65.7	81.4
85°	130.4	132.9	132.3	136.1	130.4	48.2	42.8	39.3	41.6	44.6	52.3
87.5°	63.6	64.3	62.2	65.4	63.3	24.4	21.1	22.3	24.4	25.0	25.0
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):

	135°	145°	155°	165°	175°	180°
0°	510.4	510.4	510.4	510.4	510.4	510.4
2.5°	482.2	479.7	480.0	479.4	478.3	478.3
5°	478.0	475.6	475.6	475.1	473.5	473.8
7.5°	482.2	478.3	476.8	474.7	472.6	472.6
10°	486.9	480.0	476.0	472.3	469.7	469.7
12.5°	490.5	479.7	473.0	468.1	465.6	465.6
15°	491.6	477.7	468.1	462.5	460.2	459.9
17.5°	487.9	469.7	458.2	451.6	448.5	447.6
20°	476.0	455.1	441.1	433.6	429.5	428.1
22.5°	458.2	434.3	417.9	410.2	405.0	403.9
25°	433.1	407.5	391.4	384.0	381.1	380.2
27.5°	403.9	380.2	366.6	361.7	359.1	358.8
30°	376.3	356.0	346.1	342.4	339.1	338.6
32.5°	350.5	337.7	333.8	328.8	321.0	320.1
35°	332.0	330.8	328.3	316.9	307.3	304.8
37.5°	320.7	331.7	318.1	295.8	288.9	288.3
40°	314.2	322.6	299.1	291.2	291.9	291.2
42.5°	299.4	308.0	299.6	296.1	298.5	299.1
45°	284.5	294.0	304.1	301.7	307.3	307.3
47.5°	276.1	290.4	303.8	303.8	312.2	315.1
50°	266.6	287.5	299.1	303.2	309.8	307.3
52.5°	266.0	282.4	292.2	299.6	302.6	299.9
55°	266.9	278.3	285.3	293.7	297.3	297.5
57.5°	268.1	275.9	280.6	284.5	295.2	295.2
60°	271.1	273.8	276.4	278.5	292.5	292.9
62.5°	275.9	271.7	271.1	273.1	291.0	289.9
65°	283.3	268.7	264.3	266.4	289.5	285.9
67.5°	293.4	264.3	255.6	257.1	288.3	280.6
70°	302.6	257.1	245.0	243.4	277.1	263.4
72.5°	303.5	248.8	230.1	225.6	240.8	227.7
75°	288.7	243.1	213.7	200.6	198.9	197.1
77.5°	260.1	240.0	194.7	174.2	170.7	171.9
80°	217.7	227.7	171.9	147.4	166.7	164.7
82.5°	162.6	200.9	146.0	130.4	130.2	115.0
85°	90.3	156.7	118.9	97.8	68.1	66.0
87.5°	25.2	87.1	83.2	55.2	37.8	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)