

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: P228087

Luminaire Tested: **ISS-AF-800-LED-E1-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-SL2-7060
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4628 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 III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

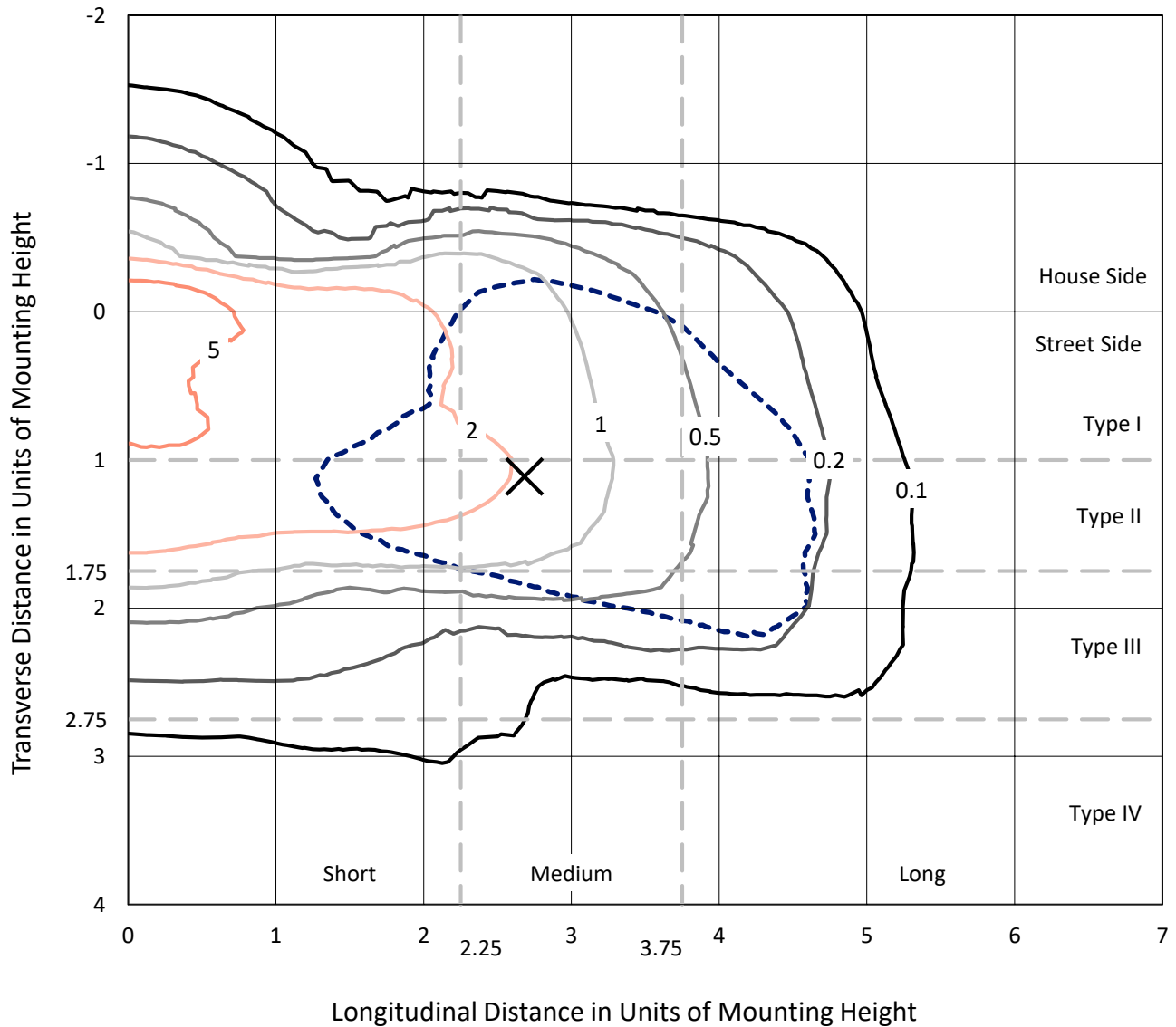
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

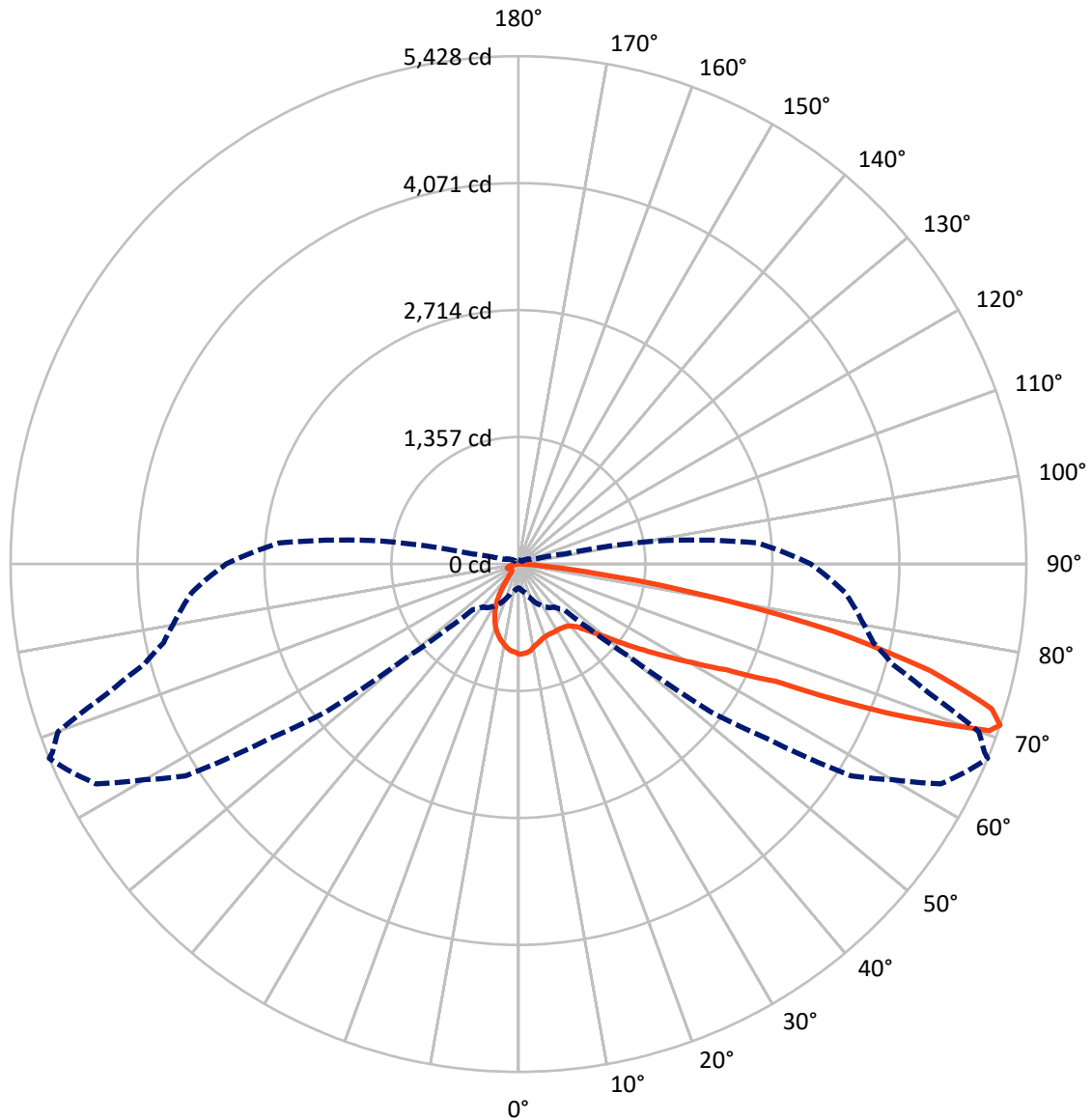
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.9	0.0	779.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3848.1	0.0	3848.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	4628.0	0.0	4628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.8
10°-20°	201.3	4.4
20°-30°	273.8	5.9
30°-40°	374.2	8.1
40°-50°	563.8	12.2
50°-60°	893.6	19.3
60°-70°	1183.0	25.6
70°-80°	942.4	20.4
80°-90°	111.7	2.4
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°	4628.0	100.0
0°-180°	4628.0	100.0

Coefficient of Utilization



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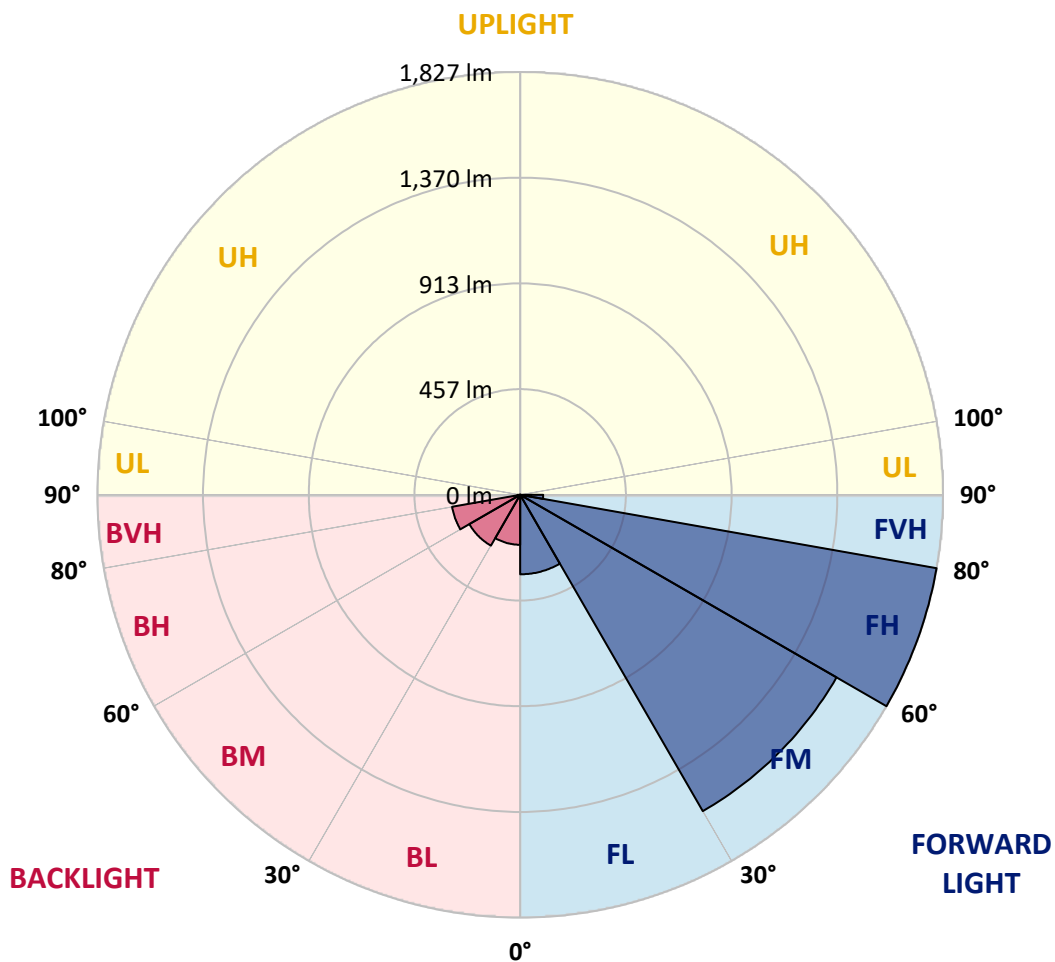
CATALOG NUMBER: ISS-AF-800-LED-E1-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.4	7.4			
FM	(30°-60°)	1578.2	34.1			
FH	(60°-80°)	1826.9	39.5			G2/5000
FVH	(80°-90°)	99.6	2.2			G1/100
BL	(0°-30°)	215.9	4.7	B1/500		
BM	(30°-60°)	253.4	5.5	B1/1000		
BH	(60°-80°)	298.5	6.4	B1/500		G1/500
BVH	(80°-90°)	12.1	0.3			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°	37.5°	40°	42.5°	45°	47.5°	50°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	946.7	943.4	943.4	948.3	956.3	949.9	954.7	954.7	956.3	961.2	962.8
5°	877.2	870.7	877.2	883.6	901.4	898.2	903.0	907.9	917.6	919.2	932.1
7.5°	814.2	811.0	815.8	828.7	851.3	844.9	851.3	857.8	869.1	874.0	886.9
10°	765.7	760.9	767.3	777.0	799.6	798.0	801.3	809.3	822.3	825.5	841.6
12.5°	730.2	730.2	733.4	746.3	765.7	764.1	773.8	778.6	790.0	793.2	811.0
15°	712.4	707.6	714.0	725.3	744.7	744.7	751.2	756.0	772.2	773.8	790.0
17.5°	696.3	697.9	699.5	712.4	730.2	727.0	735.0	738.3	756.0	752.8	772.2
20°	696.3	699.5	697.9	705.9	718.9	712.4	722.1	723.7	743.1	738.3	759.3
22.5°	715.6	718.9	714.0	712.4	717.3	712.4	717.3	720.5	735.0	731.8	751.2
25°	749.6	756.0	749.6	738.3	733.4	720.5	723.7	728.6	739.9	731.8	749.6
27.5°	802.9	807.7	796.4	785.1	762.5	748.0	743.1	741.5	754.4	741.5	756.0
30°	864.3	870.7	861.0	840.0	807.7	783.5	773.8	769.0	777.0	757.6	772.2
32.5°	930.5	937.0	930.5	914.3	870.7	835.2	822.3	811.0	817.4	791.6	798.0
35°	998.3	1004.8	1011.3	1001.6	945.0	904.6	883.6	874.0	872.3	840.0	841.6
37.5°	1058.1	1064.6	1085.6	1095.3	1043.6	988.7	969.3	948.3	949.9	904.6	904.6
40°	1130.8	1138.9	1166.4	1189.0	1155.0	1088.8	1066.2	1043.6	1043.6	983.8	985.4
42.5°	1229.4	1239.0	1256.8	1287.5	1276.2	1208.4	1184.1	1153.4	1156.7	1085.6	1084.0
45°	1368.3	1374.7	1374.7	1394.1	1395.7	1331.1	1315.0	1284.3	1290.7	1200.3	1205.1
47.5°	1549.2	1541.1	1508.8	1520.1	1533.1	1465.2	1450.7	1431.3	1439.4	1342.4	1352.1
50°	1717.2	1710.8	1644.5	1647.8	1694.6	1625.1	1620.3	1596.1	1607.4	1510.4	1525.0
52.5°	1780.2	1768.9	1702.7	1738.2	1869.1	1830.3	1838.4	1827.1	1833.5	1730.1	1726.9
55°	1709.1	1709.1	1668.8	1733.4	1999.9	2020.9	2087.2	2113.0	2140.5	2037.1	2014.5
57.5°	1512.1	1525.0	1531.4	1646.1	1978.9	2069.4	2195.4	2305.2	2445.8	2439.3	2473.2
60°	1185.7	1208.4	1245.5	1432.9	1888.5	2037.1	2200.2	2365.0	2558.9	2683.3	2867.4
62.5°	832.0	851.3	882.0	1011.3	1625.1	1880.4	2116.2	2369.9	2617.0	2812.5	3054.8
65°	565.4	584.8	649.4	720.5	980.6	1352.1	1712.4	2132.4	2508.8	2872.3	3198.6
67.5°	407.1	418.4	468.5	588.0	652.6	720.5	854.6	1348.9	1812.5	2544.3	3020.9
70°	305.3	316.6	361.9	494.3	573.5	591.3	623.6	710.8	828.7	1429.7	2054.8
71°	255.2	271.4	326.3	465.2	570.3	584.8	599.3	651.0	689.8	1011.3	1525.0
72.5°	179.3	190.6	242.3	429.7	547.6	581.6	615.5	613.9	610.6	689.8	922.4
75°	114.7	114.7	114.7	242.3	584.8	563.8	576.7	646.2	610.6	579.9	607.4
77.5°	90.5	88.8	84.0	121.2	457.2	571.9	605.8	623.6	657.5	605.8	578.3
80°	67.8	66.2	66.2	75.9	211.6	369.9	512.1	568.6	592.9	644.6	588.0
82.5°	35.5	35.5	38.8	45.2	79.2	129.2	264.9	436.2	487.9	491.1	495.9
85°	11.3	9.7	12.9	21.0	33.9	42.0	74.3	176.1	261.7	316.6	334.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.5	11.3	14.5
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):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	958.0	964.4	959.6	966.0	958.0	967.7	959.6	964.4	966.0	959.6	967.7
5°	924.0	943.4	937.0	951.5	945.0	958.0	951.5	964.4	964.4	959.6	970.9
7.5°	882.0	901.4	903.0	917.6	917.6	933.7	933.7	946.7	953.1	953.1	969.3
10°	840.0	857.8	861.0	877.2	880.4	899.8	899.8	917.6	930.5	935.3	954.7
12.5°	807.7	830.3	830.3	848.1	844.9	874.0	877.2	893.3	906.3	917.6	943.4
15°	788.3	809.3	809.3	827.1	823.9	853.0	857.8	874.0	893.3	899.8	935.3
17.5°	769.0	790.0	785.1	809.3	807.7	840.0	836.8	861.0	877.2	886.9	927.3
20°	752.8	777.0	773.8	798.0	791.6	827.1	827.1	851.3	867.5	875.6	922.4
22.5°	744.7	770.6	764.1	788.3	783.5	819.0	819.0	843.3	861.0	874.0	920.8
25°	744.7	767.3	760.9	788.3	780.3	819.0	817.4	841.6	859.4	870.7	922.4
27.5°	748.0	770.6	765.7	791.6	785.1	819.0	822.3	843.3	861.0	874.0	925.7
30°	759.3	780.3	769.0	793.2	788.3	820.6	819.0	841.6	859.4	875.6	925.7
32.5°	783.5	794.8	780.3	801.3	791.6	823.9	823.9	840.0	861.0	880.4	925.7
35°	817.4	825.5	802.9	817.4	799.6	832.0	830.3	848.1	864.3	880.4	928.9
37.5°	865.9	875.6	840.0	853.0	823.9	849.7	843.3	864.3	880.4	890.1	945.0
40°	938.6	941.8	895.0	904.6	864.3	886.9	870.7	899.8	907.9	914.3	969.3
42.5°	1027.4	1030.7	970.9	977.3	925.7	945.0	917.6	948.3	959.6	958.0	1017.7
45°	1137.3	1138.9	1071.0	1075.9	1016.1	1032.3	998.3	1024.2	1032.3	1027.4	1088.8
47.5°	1256.8	1269.7	1193.8	1200.3	1137.3	1145.4	1103.3	1132.4	1132.4	1127.6	1190.6
50°	1415.1	1434.5	1345.7	1355.4	1282.7	1289.1	1240.7	1271.4	1268.1	1255.2	1326.3
52.5°	1612.2	1630.0	1536.3	1549.2	1471.7	1474.9	1415.1	1450.7	1441.0	1420.0	1502.4
55°	1852.9	1854.5	1767.3	1778.6	1701.1	1696.2	1621.9	1665.5	1651.0	1621.9	1697.8
57.5°	2239.0	2192.2	2048.4	2045.2	1961.2	1954.7	1859.4	1912.7	1888.5	1827.1	1927.2
60°	2861.0	2875.5	2508.8	2452.2	2295.5	2266.5	2140.5	2201.9	2172.8	2072.6	2171.2
62.5°	3211.5	3442.5	3419.9	3216.4	2812.5	2702.6	2489.4	2562.1	2486.2	2339.2	2431.2
65°	3471.6	3785.0	3965.9	4161.4	3980.5	3531.4	3027.3	3129.1	2943.3	2663.9	2752.7
67.5°	3568.5	3946.5	4327.8	4605.6	4794.6	4828.6	4245.4	4272.9	3815.7	3256.7	3268.0
70°	3061.3	3618.6	4364.9	4717.1	5091.9	5276.0	5337.4	5308.4	5012.7	4221.2	3919.1
71°	2594.4	3269.7	4216.3	4608.9	5088.7	5266.4	5427.9	5373.0	5235.7	4604.0	4140.4
72.5°	1757.6	2605.7	3781.8	4279.3	4919.0	5048.3	5290.6	5193.7	5164.6	4890.0	4347.2
75°	827.1	1298.8	2460.3	3213.1	4163.0	4287.4	4541.0	4421.5	4345.6	4439.2	4135.5
77.5°	609.0	709.2	1350.5	1996.7	3027.3	3203.4	3421.5	3274.5	3177.6	3271.3	3059.7
80°	554.1	557.3	699.5	1053.3	1806.1	1911.1	1993.5	1873.9	1726.9	1720.5	1525.0
82.5°	510.5	483.0	453.9	557.3	925.7	880.4	814.2	754.4	586.4	470.1	339.2
85°	324.7	355.4	323.1	305.3	368.3	303.7	240.7	231.0	163.2	109.9	101.8
87.5°	22.6	25.8	30.7	35.5	43.6	35.5	22.6	27.5	16.2	0.0	8.1
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	956.3	964.4	967.7	966.0	962.8	959.6	948.3	956.3	945.0	953.1	943.4
5°	961.2	972.5	974.1	970.9	967.7	961.2	941.8	953.1	940.2	946.7	932.1
7.5°	959.6	977.3	979.0	975.7	969.3	958.0	938.6	946.7	925.7	930.5	911.1
10°	951.5	977.3	979.0	970.9	961.2	943.4	920.8	924.0	903.0	903.0	877.2
12.5°	943.4	974.1	982.2	970.9	954.7	930.5	904.6	901.4	877.2	875.6	846.5
15°	943.4	977.3	988.7	974.1	949.9	916.0	885.3	878.8	851.3	843.3	811.0
17.5°	941.8	977.3	993.5	974.1	945.0	901.4	862.6	856.2	820.6	807.7	770.6
20°	940.2	980.6	996.7	970.9	930.5	883.6	840.0	827.1	788.3	767.3	723.7
22.5°	938.6	987.0	1000.0	967.7	920.8	861.0	815.8	793.2	748.0	720.5	668.8
25°	946.7	995.1	1001.6	964.4	906.3	836.8	788.3	757.6	707.6	672.0	610.6
27.5°	949.9	1003.2	1004.8	958.0	888.5	811.0	759.3	717.3	660.7	617.1	547.6
30°	959.6	1004.8	1000.0	945.0	867.5	778.6	725.3	673.6	610.6	554.1	471.7
32.5°	962.8	1009.7	996.7	930.5	846.5	746.3	686.6	626.8	550.9	484.6	384.5
35°	969.3	1012.9	993.5	922.4	823.9	712.4	646.2	578.3	491.1	407.1	292.4
37.5°	979.0	1027.4	1001.6	919.2	812.6	683.3	600.9	528.3	420.0	321.5	193.9
40°	1003.2	1056.5	1016.1	924.0	804.5	659.1	557.3	476.6	339.2	237.5	134.1
42.5°	1051.7	1106.6	1053.3	948.3	809.3	638.1	512.1	421.6	256.9	169.6	111.5
45°	1124.4	1171.2	1114.7	988.7	828.7	626.8	470.1	365.1	184.2	135.7	101.8
47.5°	1231.0	1276.2	1205.1	1053.3	862.6	621.9	426.5	305.3	142.2	122.8	98.5
50°	1371.5	1424.8	1336.0	1155.0	925.7	626.8	379.6	248.8	124.4	119.5	96.9
52.5°	1544.4	1596.1	1507.2	1305.3	1029.0	654.3	329.6	216.5	117.9	117.9	95.3
55°	1739.8	1812.5	1725.3	1513.7	1189.0	714.0	298.9	205.2	117.9	119.5	93.7
57.5°	1970.8	2032.2	1954.7	1714.0	1381.2	812.6	302.1	216.5	117.9	119.5	92.1
60°	2197.0	2272.9	2184.1	1969.2	1600.9	961.2	368.3	274.6	122.8	124.4	92.1
62.5°	2432.9	2491.0	2418.3	2192.2	1849.7	1145.4	500.8	397.4	142.2	147.0	98.5
65°	2691.3	2786.6	2710.7	2524.9	2201.9	1439.4	752.8	596.1	210.0	171.2	108.2
67.5°	3138.8	3177.6	3140.4	2970.8	2613.8	1681.7	896.6	605.8	210.0	166.4	121.2
70°	3744.6	3657.4	3491.0	3174.4	2657.4	1508.8	642.9	369.9	179.3	158.3	127.6
71°	3885.1	3751.1	3505.5	3124.3	2566.9	1361.8	499.2	292.4	168.0	155.1	127.6
72.5°	3970.8	3770.5	3398.9	2977.3	2389.2	1072.7	329.6	229.4	153.5	147.0	122.8
75°	3859.3	3489.4	3001.5	2576.6	1956.3	557.3	206.8	174.5	130.9	127.6	106.6
77.5°	3064.5	2739.8	2214.8	1872.3	1258.4	247.2	148.6	132.5	103.4	100.2	82.4
80°	1429.7	1147.0	672.0	576.7	395.8	145.4	101.8	90.5	74.3	71.1	58.2
82.5°	260.1	195.5	151.9	147.0	132.5	85.6	59.8	54.9	46.8	45.2	37.2
85°	88.8	85.6	64.6	64.6	66.2	45.2	33.9	32.3	24.2	24.2	16.2
87.5°	1.6	8.1	8.1	11.3	9.7	8.1	3.2	4.8	1.6	4.8	0.0
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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4	964.4
2.5°	951.5	938.6	949.9	938.6	945.0	932.1	940.2	935.3	935.3	930.5	927.3
5°	937.0	920.8	928.9	916.0	922.4	903.0	907.9	899.8	883.6	874.0	861.0
7.5°	916.0	891.7	898.2	878.8	883.6	857.8	862.6	848.1	817.4	798.0	778.6
10°	878.8	856.2	857.8	833.6	832.0	806.1	801.3	781.9	736.6	704.3	678.5
12.5°	841.6	815.8	812.6	783.5	778.6	748.0	741.5	710.8	644.6	581.6	541.2
15°	802.9	770.6	760.9	730.2	712.4	686.6	668.8	623.6	528.3	445.9	392.6
17.5°	759.3	717.3	702.7	667.2	641.3	602.6	576.7	515.3	392.6	303.7	266.5
20°	702.7	657.5	631.6	586.4	552.5	505.6	473.3	394.2	261.7	216.5	211.6
22.5°	639.7	586.4	554.1	497.6	455.6	405.5	353.8	266.5	185.8	176.1	182.5
25°	573.5	507.3	465.2	395.8	339.2	281.1	232.6	177.7	151.9	150.2	159.9
27.5°	494.3	418.4	358.6	276.2	224.5	179.3	158.3	140.5	129.2	130.9	140.5
30°	407.1	308.6	245.5	172.9	150.2	130.9	127.6	121.2	116.3	119.5	126.0
32.5°	303.7	197.1	158.3	124.4	122.8	111.5	114.7	111.5	109.9	111.5	116.3
35°	205.2	130.9	124.4	106.6	109.9	101.8	106.6	105.0	103.4	103.4	106.6
37.5°	142.2	108.2	111.5	98.5	103.4	96.9	101.8	100.2	98.5	96.9	98.5
40°	117.9	98.5	103.4	93.7	98.5	92.1	96.9	95.3	93.7	90.5	90.5
42.5°	108.2	93.7	98.5	88.8	95.3	87.2	93.7	90.5	87.2	84.0	85.6
45°	105.0	90.5	95.3	85.6	92.1	84.0	88.8	87.2	80.8	79.2	80.8
47.5°	101.8	88.8	93.7	84.0	88.8	80.8	85.6	82.4	75.9	74.3	75.9
50°	100.2	85.6	90.5	80.8	85.6	79.2	82.4	79.2	72.7	71.1	71.1
52.5°	98.5	84.0	88.8	77.5	82.4	72.7	77.5	74.3	67.8	66.2	66.2
55°	98.5	82.4	85.6	74.3	79.2	69.5	72.7	69.5	66.2	63.0	63.0
57.5°	96.9	79.2	84.0	71.1	74.3	66.2	69.5	66.2	61.4	59.8	59.8
60°	96.9	77.5	82.4	69.5	72.7	63.0	66.2	63.0	58.2	56.5	56.5
62.5°	101.8	80.8	84.0	71.1	72.7	63.0	64.6	59.8	54.9	54.9	53.3
65°	111.5	90.5	90.5	74.3	74.3	63.0	64.6	58.2	51.7	51.7	51.7
67.5°	121.2	100.2	98.5	79.2	77.5	63.0	63.0	54.9	48.5	48.5	48.5
70°	127.6	105.0	101.8	80.8	77.5	61.4	59.8	51.7	45.2	45.2	45.2
71°	126.0	105.0	100.2	79.2	74.3	58.2	58.2	50.1	43.6	43.6	42.0
72.5°	119.5	98.5	93.7	74.3	71.1	54.9	54.9	46.8	40.4	40.4	38.8
75°	101.8	84.0	79.2	63.0	59.8	48.5	46.8	38.8	35.5	33.9	33.9
77.5°	79.2	66.2	61.4	50.1	48.5	38.8	37.2	32.3	29.1	29.1	27.5
80°	56.5	46.8	43.6	33.9	30.7	25.8	27.5	24.2	22.6	22.6	21.0
82.5°	33.9	24.2	24.2	19.4	21.0	16.2	17.8	17.8	16.2	12.9	12.9
85°	17.8	11.3	14.5	8.1	11.3	4.8	8.1	6.5	6.5	4.8	4.8
87.5°	3.2	0.0	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
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):

	175°	180°
0°	964.4	964.4
2.5°	917.6	919.2
5°	854.6	857.8
7.5°	764.1	769.0
10°	655.9	659.1
12.5°	516.9	516.9
15°	361.9	365.1
17.5°	253.6	255.2
20°	213.2	214.9
22.5°	190.6	192.2
25°	169.6	171.2
27.5°	147.0	148.6
30°	132.5	134.1
32.5°	119.5	121.2
35°	108.2	108.2
37.5°	100.2	100.2
40°	92.1	92.1
42.5°	87.2	87.2
45°	82.4	82.4
47.5°	77.5	77.5
50°	72.7	74.3
52.5°	67.8	67.8
55°	63.0	63.0
57.5°	58.2	59.8
60°	54.9	54.9
62.5°	51.7	51.7
65°	50.1	50.1
67.5°	46.8	46.8
70°	43.6	43.6
71°	42.0	42.0
72.5°	38.8	38.8
75°	33.9	32.3
77.5°	27.5	27.5
80°	21.0	19.4
82.5°	12.9	11.3
85°	4.8	3.2
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)