

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: P833947

Luminaire Tested: **TTN-D3-750-U-DL-UPL1**

Issue Date: 5/15/2024

Test Information

Test Method: LM-79-08
Report Number: P833947
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G3-2308-121-4) AND
Test Lab: INNOVATION CENTER
Issue Date: 5/15/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: TTN-D3-750-U-DL-UPL1
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
5000K, 70 CRI LEDS AND DRIVE LANE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6993.9 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 0.71' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B1 - U3 - G3

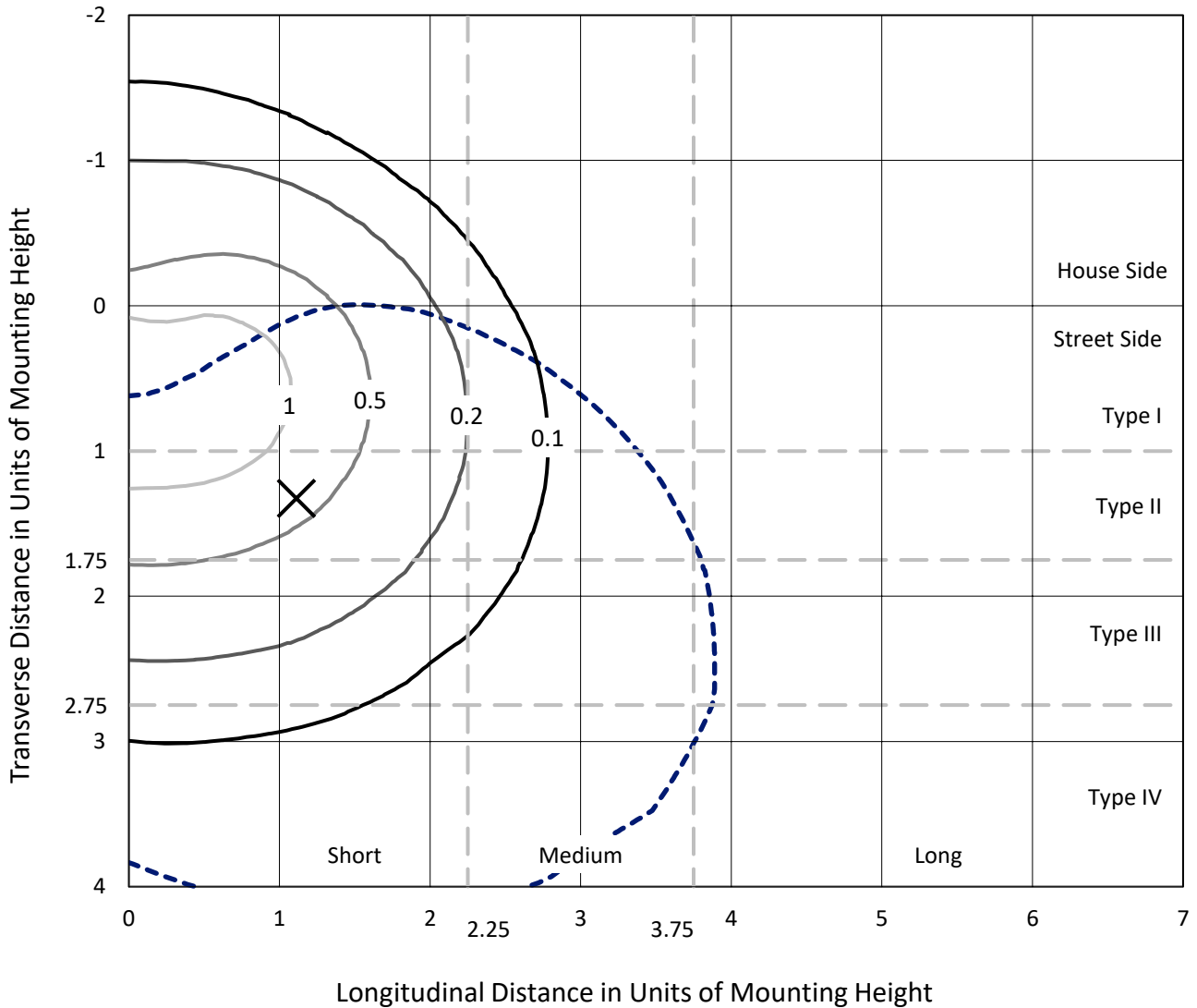
Input Watts (W): 61.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

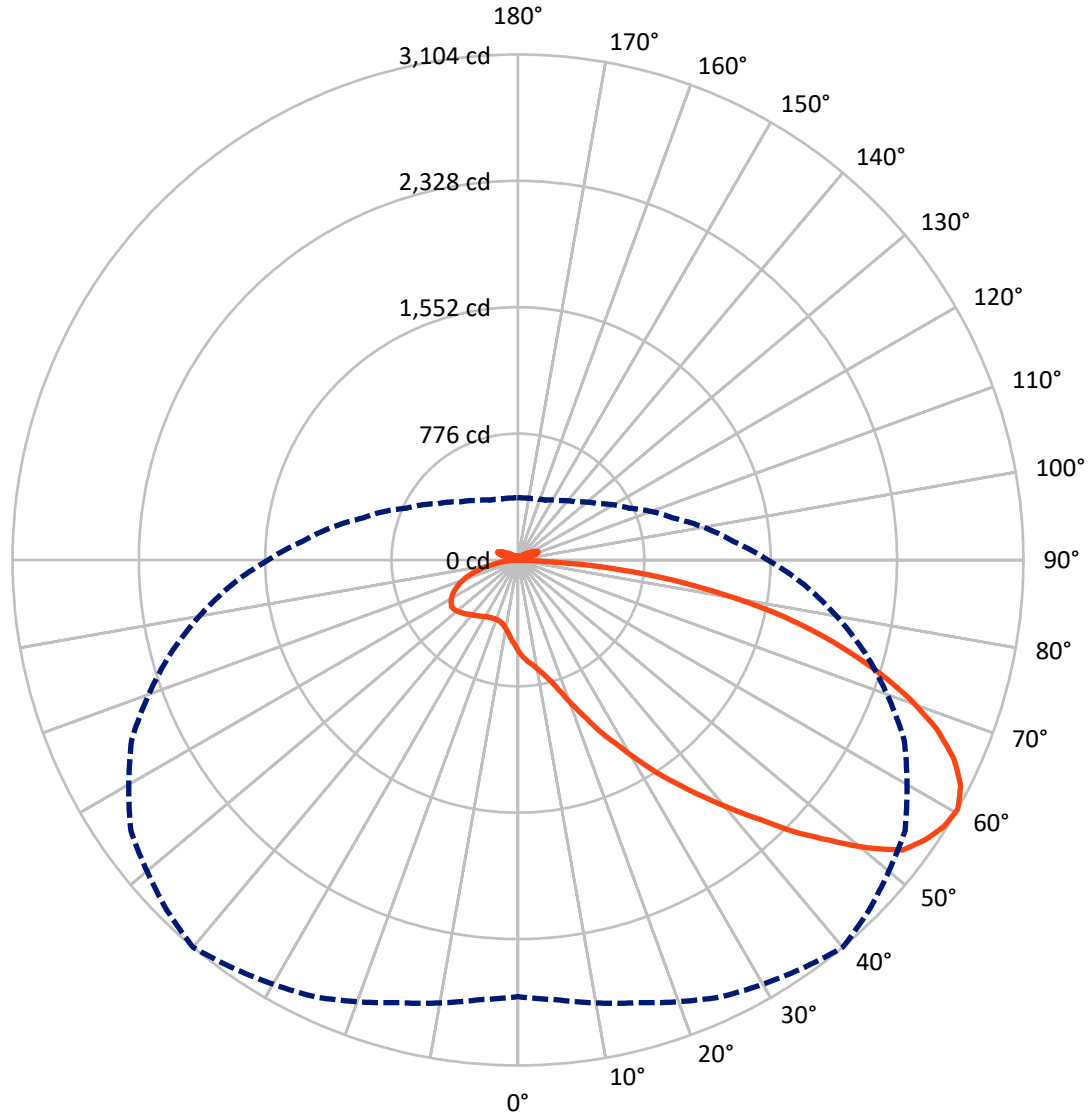
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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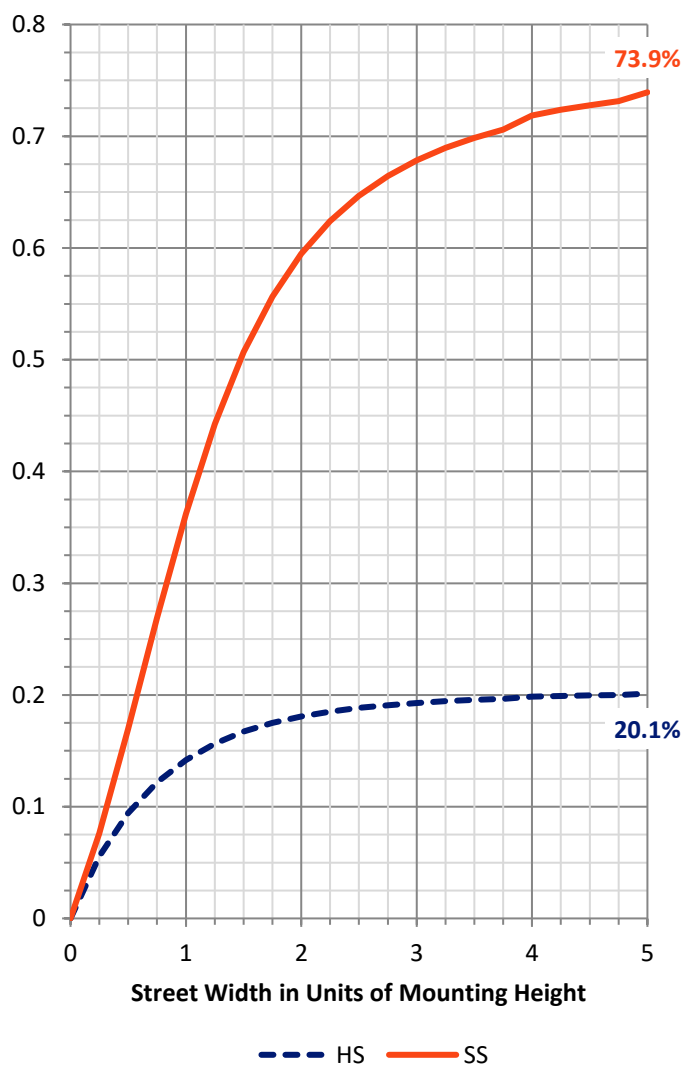
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1420.6	161.7	1582.3
	% Fixture	20.3	2.3	22.6
Street Side	Lumens	5249.8	161.7	5411.6
	% Fixture	75.1	2.3	77.4
Total	Lumens	6670.4	323.4	6993.9
	% Fixture	95.4	4.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	0.8
10°-20°	169.1	2.4
20°-30°	357.2	5.1
30°-40°	652.8	9.3
40°-50°	1060.8	15.2
50°-60°	1474.4	21.1
60°-70°	1528.4	21.9
70°-80°	1095.2	15.7
80°-90°	279.7	4.0
90°-100°	7.2	0.1
100°-110°	73.4	1.0
110°-120°	107.3	1.5
120°-130°	62.3	0.9
130°-140°	33.0	0.5
140°-150°	19.6	0.3
150°-160°	12.1	0.2
160°-170°	6.6	0.1
170°-180°	2.1	0.0
0°-90°	6670.4	95.4
0°-180°	6993.9	100.0

Coefficient of Utilization



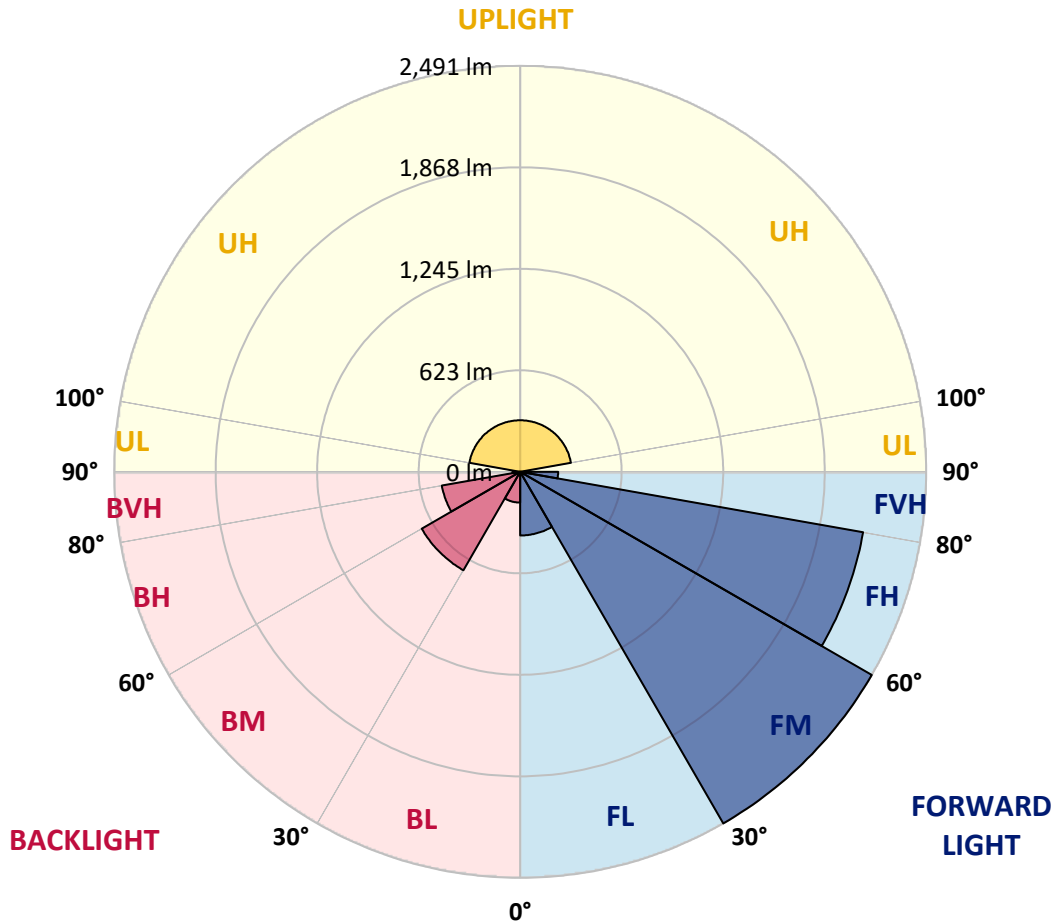
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.3	5.6			
FM (30°-60°)	2490.6	35.6			
FH (60°-80°)	2136.1	30.5			G2/5000
FVH (80°-90°)	232.8	3.3			G3/500
BL (0°-30°)	188.9	2.7	B1/500		
BM (30°-60°)	697.3	10.0	B1/1000		
BH (60°-80°)	487.5	7.0	B1/500		G1/500
BVH (80°-90°)	46.8	0.7			G1/100
UL (90°-100°)	7.2	0.1		U1/10	
UH (100°-180°)	316.2	4.5		U3/500	

BUG Rating: B1-U3-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	602.3	602.3	602.3	602.3	596.5	596.5	590.7	584.9	579.1	573.3	561.8
5°	654.4	654.4	648.6	642.8	631.3	625.5	619.7	608.1	596.5	584.9	567.6
7.5°	677.6	677.6	677.6	671.8	654.4	648.6	637.0	619.7	602.3	584.9	561.8
10°	718.1	718.1	712.3	706.5	689.2	683.4	671.8	648.6	619.7	590.7	561.8
12.5°	770.2	764.5	758.7	752.9	735.5	723.9	706.5	683.4	648.6	613.9	579.1
15°	834.0	822.4	822.4	810.8	793.4	776.0	764.5	729.7	695.0	648.6	602.3
17.5°	903.5	897.7	891.9	880.3	862.9	851.3	834.0	793.4	747.1	689.2	637.0
20°	990.3	978.7	984.5	967.2	949.8	944.0	915.0	868.7	810.8	747.1	683.4
22.5°	1094.6	1083.0	1083.0	1065.6	1054.0	1042.4	1013.5	961.4	886.1	816.6	735.5
25°	1210.4	1198.8	1198.8	1187.2	1175.6	1164.1	1129.3	1071.4	984.5	897.7	805.0
27.5°	1337.8	1326.2	1326.2	1320.4	1291.5	1274.1	1245.1	1181.4	1094.6	984.5	874.5
30°	1471.0	1459.4	1471.0	1459.4	1442.0	1407.3	1372.6	1303.1	1204.6	1083.0	949.8
32.5°	1575.2	1575.2	1581.0	1592.6	1581.0	1552.1	1511.5	1453.6	1320.4	1169.9	1019.3
35°	1696.9	1696.9	1708.4	1725.8	1720.0	1691.1	1650.5	1586.8	1447.8	1268.3	1094.6
37.5°	1830.1	1830.1	1841.6	1870.6	1859.0	1841.6	1812.7	1731.6	1575.2	1366.8	1175.6
40°	1974.9	1969.1	1980.6	2021.2	2027.0	2003.8	1969.1	1888.0	1708.4	1494.2	1262.5
42.5°	2119.6	2113.8	2137.0	2177.5	2183.3	2177.5	2142.8	2050.1	1847.4	1621.6	1349.4
45°	2264.4	2264.4	2299.2	2362.9	2391.8	2380.2	2351.3	2235.5	2021.2	1754.8	1465.2
47.5°	2415.0	2415.0	2461.3	2542.4	2577.2	2571.4	2559.8	2420.8	2189.1	1893.8	1563.7
50°	2530.8	2530.8	2606.1	2698.8	2756.7	2779.8	2721.9	2594.5	2333.9	2015.4	1644.7
52.5°	2646.6	2646.6	2721.9	2866.7	2924.6	2959.4	2884.1	2750.9	2496.1	2125.4	1720.0
55°	2704.6	2716.1	2820.4	2959.4	3052.0	3034.7	3063.6	2884.1	2600.3	2206.5	1766.4
57.5°	2710.4	2727.7	2843.6	2988.3	3092.6	3086.8	3092.6	2930.4	2640.9	2223.9	1772.2
60°	2681.4	2710.4	2814.6	2959.4	3057.8	3104.2	3046.3	2901.5	2617.7	2206.5	1766.4
62.5°	2611.9	2669.8	2779.8	2889.9	3034.7	3052.0	3005.7	2884.1	2554.0	2189.1	1737.4
65°	2455.5	2519.2	2675.6	2803.0	2918.8	2942.0	2889.9	2785.6	2490.3	2108.1	1644.7
67.5°	2299.2	2339.7	2472.9	2669.8	2750.9	2774.1	2756.7	2635.1	2380.2	1945.9	1534.7
70°	2119.6	2171.8	2276.0	2478.7	2559.8	2554.0	2606.1	2467.1	2212.3	1806.9	1418.9
72.5°	1876.4	1951.7	2055.9	2223.9	2322.3	2287.6	2368.7	2252.8	1992.2	1633.2	1262.5
75°	1592.6	1656.3	1789.5	1922.7	2032.8	1992.2	2055.9	1974.9	1737.4	1424.7	1083.0
77.5°	1274.1	1349.4	1471.0	1592.6	1667.9	1667.9	1696.9	1627.4	1442.0	1169.9	886.1
80°	944.0	1013.5	1123.5	1210.4	1279.9	1285.7	1314.6	1279.9	1111.9	909.2	677.6
82.5°	625.5	660.2	758.7	828.2	897.7	891.9	938.2	915.0	776.0	625.5	451.7
85°	266.4	289.6	370.6	428.6	492.3	469.1	532.8	527.0	417.0	301.2	202.7
87.5°	11.6	17.4	17.4	11.6	17.4	5.8	17.4	23.2	17.4	11.6	11.6
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8
92.5°	2.8	2.8	2.8	3.9	4.4	4.2	3.9	4.4	3.3	3.3	2.8
95°	3.3	3.3	3.9	5.0	6.1	6.4	6.6	6.6	3.9	3.9	3.3
97.5°	4.4	5.0	5.0	6.1	10.0	14.2	18.3	11.1	5.5	5.5	5.0
100°	7.2	7.7	7.7	13.8	29.3	34.3	39.3	28.2	14.4	10.5	7.7
102.5°	23.2	24.3	29.9	44.8	66.4	63.4	60.3	50.9	48.1	33.2	26.6
105°	59.2	58.7	63.1	74.7	93.0	92.2	91.3	84.1	76.4	65.8	60.9
107.5°	78.0	78.0	81.9	91.9	105.7	114.6	123.4	125.1	99.0	86.9	81.3
110°	88.0	88.0	91.3	99.6	117.9	130.4	142.8	141.6	122.3	107.3	100.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
112.5°	90.2	90.7	95.2	107.9	127.8	133.4	138.9	133.9	126.2	119.5	114.0
115°	93.5	93.5	98.5	110.7	121.7	124.0	126.2	120.6	114.5	110.1	107.9
117.5°	92.4	94.1	95.2	101.8	109.0	110.6	112.3	109.6	101.3	97.9	96.8
120°	85.8	85.8	86.9	90.2	94.1	94.9	95.7	94.6	89.1	86.3	85.8
122.5°	76.4	76.9	76.4	78.0	80.8	81.6	82.4	81.3	76.9	75.8	75.8
125°	67.0	67.0	66.4	67.5	69.2	68.9	68.6	69.2	67.0	66.4	66.4
127.5°	60.3	59.8	58.7	59.2	59.8	59.8	59.8	60.3	58.1	58.7	59.2
130°	53.7	53.7	52.6	52.6	52.6	52.0	51.5	52.6	51.5	52.0	52.6
132.5°	47.6	47.6	45.9	45.4	45.4	45.4	45.4	45.9	45.4	46.5	47.6
135°	42.6	42.6	40.9	41.5	41.5	41.2	40.9	41.5	40.9	42.1	42.6
137.5°	38.7	38.7	37.6	37.6	37.6	37.4	37.1	37.6	37.6	38.2	39.3
140°	35.4	35.4	34.9	34.9	34.3	34.6	34.9	34.9	34.9	35.4	36.0
142.5°	33.8	33.2	32.6	32.1	32.6	32.6	32.6	32.6	32.1	32.6	33.8
145°	31.0	31.0	30.4	30.4	30.4	30.7	31.0	30.4	30.4	31.0	31.0
147.5°	29.3	29.3	28.8	29.3	29.3	29.3	29.3	29.3	28.8	29.3	29.3
150°	28.8	28.2	27.7	28.2	28.2	28.0	27.7	27.7	27.7	27.7	28.2
152.5°	27.1	27.1	26.6	27.1	26.6	26.6	26.6	26.6	26.6	26.6	27.1
155°	26.0	26.0	25.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
157.5°	24.9	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5
160°	24.3	24.3	24.3	24.3	23.8	23.8	23.8	23.8	24.3	24.3	24.3
162.5°	23.8	23.8	23.8	23.8	23.2	23.2	23.2	23.2	23.2	23.8	23.8
165°	23.8	23.2	23.2	23.2	22.7	22.7	22.7	22.7	22.7	23.2	23.8
167.5°	22.7	22.7	22.7	22.7	22.7	22.4	22.1	22.1	22.7	22.7	22.7
170°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
172.5°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.7
175°	22.7	22.7	22.7	22.7	22.1	22.1	22.1	22.1	22.7	22.7	22.7
177.5°	22.7	22.7	22.7	22.7	22.1	22.4	22.7	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8	561.8
2.5°	561.8	556.0	544.4	538.6	532.8	521.2	521.2	515.4	515.4	515.4	509.6
5°	561.8	550.2	538.6	521.2	509.6	498.1	486.5	474.9	469.1	469.1	463.3
7.5°	550.2	538.6	521.2	503.8	486.5	463.3	451.7	428.6	422.8	417.0	417.0
10°	550.2	538.6	509.6	486.5	463.3	440.1	422.8	399.6	382.2	376.4	376.4
12.5°	556.0	538.6	509.6	480.7	451.7	422.8	399.6	376.4	359.1	347.5	347.5
15°	579.1	556.0	521.2	480.7	445.9	411.2	388.0	359.1	341.7	330.1	330.1
17.5°	608.1	584.9	532.8	486.5	445.9	405.4	376.4	347.5	330.1	318.5	312.7
20°	648.6	613.9	556.0	492.3	445.9	405.4	370.6	341.7	318.5	306.9	306.9
22.5°	695.0	654.4	579.1	503.8	451.7	405.4	370.6	335.9	312.7	301.2	301.2
25°	752.9	700.8	613.9	527.0	463.3	411.2	370.6	335.9	312.7	301.2	301.2
27.5°	816.6	758.7	648.6	550.2	474.9	417.0	370.6	335.9	312.7	301.2	301.2
30°	874.5	810.8	683.4	573.3	492.3	422.8	376.4	341.7	318.5	306.9	301.2
32.5°	938.2	857.1	718.1	596.5	503.8	434.4	382.2	347.5	318.5	306.9	306.9
35°	1001.9	915.0	752.9	625.5	521.2	445.9	388.0	353.3	324.3	312.7	312.7
37.5°	1071.4	978.7	793.4	648.6	538.6	457.5	399.6	359.1	330.1	318.5	318.5
40°	1152.5	1042.4	834.0	677.6	556.0	469.1	405.4	370.6	341.7	330.1	330.1
42.5°	1227.8	1100.4	874.5	700.8	573.3	480.7	417.0	376.4	353.3	341.7	341.7
45°	1303.1	1169.9	915.0	729.7	590.7	498.1	428.6	393.8	364.9	353.3	353.3
47.5°	1389.9	1233.6	961.4	752.9	608.1	509.6	440.1	405.4	376.4	370.6	364.9
50°	1459.4	1279.9	990.3	776.0	619.7	521.2	451.7	411.2	388.0	376.4	376.4
52.5°	1523.1	1326.2	1013.5	787.6	625.5	527.0	463.3	422.8	399.6	388.0	388.0
55°	1557.9	1343.6	1030.9	787.6	631.3	532.8	463.3	422.8	399.6	393.8	388.0
57.5°	1557.9	1343.6	1019.3	776.0	619.7	521.2	457.5	417.0	399.6	388.0	388.0
60°	1534.7	1326.2	990.3	752.9	602.3	503.8	445.9	405.4	388.0	382.2	382.2
62.5°	1500.0	1297.3	967.2	723.9	579.1	480.7	428.6	388.0	376.4	376.4	370.6
65°	1407.3	1210.4	915.0	683.4	544.4	451.7	405.4	370.6	359.1	353.3	347.5
67.5°	1308.8	1129.3	834.0	637.0	498.1	422.8	376.4	347.5	330.1	330.1	324.3
70°	1210.4	1042.4	758.7	573.3	445.9	388.0	341.7	312.7	301.2	301.2	301.2
72.5°	1077.2	932.4	671.8	503.8	393.8	341.7	306.9	278.0	272.2	272.2	266.4
75°	920.8	793.4	567.6	428.6	330.1	289.6	260.6	231.7	231.7	231.7	231.7
77.5°	752.9	642.8	451.7	341.7	260.6	231.7	214.3	191.1	191.1	191.1	191.1
80°	567.6	474.9	330.1	249.0	191.1	167.9	156.4	144.8	150.6	150.6	144.8
82.5°	370.6	312.7	208.5	156.4	121.6	110.0	110.0	98.5	104.2	104.2	104.2
85°	162.2	139.0	86.9	69.5	57.9	57.9	57.9	52.1	57.9	57.9	57.9
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	0.0	5.8	11.6	5.8
90°	2.8	2.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.8	2.8
92.5°	2.8	2.8	3.3	3.3	4.4	3.9	4.4	3.9	2.8	2.8	2.8
95°	3.3	3.3	3.9	3.9	6.6	6.6	6.1	5.0	3.9	3.3	3.3
97.5°	4.4	5.0	5.5	5.5	11.1	18.3	10.0	6.1	5.0	5.0	4.4
100°	7.7	7.7	10.5	14.4	28.2	39.3	29.3	13.8	7.7	7.7	7.2
102.5°	25.5	26.6	33.2	48.1	50.9	60.3	66.4	44.8	29.9	24.3	23.2
105°	60.9	60.9	65.8	76.4	84.1	91.3	93.0	74.7	63.1	58.7	59.2
107.5°	80.8	81.3	86.9	99.0	125.1	123.4	105.7	91.9	81.9	78.0	78.0
110°	99.0	100.2	107.3	122.3	141.6	142.8	117.9	99.6	91.3	88.0	88.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	112.9	114.0	119.5	126.2	133.9	138.9	127.8	107.9	95.2	90.7	90.2
115°	109.0	107.9	110.1	114.5	120.6	126.2	121.7	110.7	98.5	93.5	93.5
117.5°	95.2	96.8	97.9	101.3	109.6	112.3	109.0	101.8	95.2	94.1	92.4
120°	84.7	85.8	86.3	89.1	94.6	95.7	94.1	90.2	86.9	85.8	85.8
122.5°	74.7	75.8	75.8	76.9	81.3	82.4	80.8	78.0	76.4	76.9	76.4
125°	65.8	66.4	66.4	67.0	69.2	68.6	69.2	67.5	66.4	67.0	67.0
127.5°	58.7	59.2	58.7	58.1	60.3	59.8	59.8	59.2	58.7	59.8	60.3
130°	53.1	52.6	52.0	51.5	52.6	51.5	52.6	52.6	52.6	53.7	53.7
132.5°	47.6	47.6	46.5	45.4	45.9	45.4	45.4	45.4	45.9	47.6	47.6
135°	42.6	42.6	42.1	40.9	41.5	40.9	41.5	41.5	40.9	42.6	42.6
137.5°	39.8	39.3	38.2	37.6	37.6	37.1	37.6	37.6	37.6	38.7	38.7
140°	36.0	36.0	35.4	34.9	34.9	34.9	34.3	34.9	34.9	35.4	35.4
142.5°	33.8	33.8	32.6	32.1	32.6	32.6	32.6	32.1	32.6	33.2	33.8
145°	31.5	31.0	31.0	30.4	30.4	31.0	30.4	30.4	30.4	31.0	31.0
147.5°	29.9	29.3	29.3	28.8	29.3	29.3	29.3	29.3	28.8	29.3	29.3
150°	28.2	28.2	27.7	27.7	27.7	27.7	28.2	28.2	27.7	28.2	28.8
152.5°	27.7	27.1	26.6	26.6	26.6	26.6	26.6	27.1	26.6	27.1	27.1
155°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	25.5	26.0	26.0
157.5°	25.5	25.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9	25.5	24.9
160°	24.9	24.3	24.3	24.3	23.8	23.8	23.8	24.3	24.3	24.3	24.3
162.5°	24.3	23.8	23.8	23.2	23.2	23.2	23.2	23.8	23.8	23.8	23.8
165°	23.2	23.8	23.2	22.7	22.7	22.7	22.7	23.2	23.2	23.2	23.8
167.5°	23.2	22.7	22.7	22.7	22.1	22.1	22.7	22.7	22.7	22.7	22.7
170°	22.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.7	22.7
172.5°	22.7	22.7	22.1	22.1	22.1	22.1	22.1	22.7	22.7	22.7	22.7
175°	22.1	22.7	22.7	22.7	22.1	22.1	22.1	22.7	22.7	22.7	22.7
177.5°	22.7	22.7	22.7	22.7	22.7	22.7	22.1	22.7	22.7	22.7	22.7
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)