

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: P197867

Luminaire Tested: **TT-C6-LED-E1-WQ-CG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115498)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C6-LED-E1-WQ-CG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH CLEAR GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10748.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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

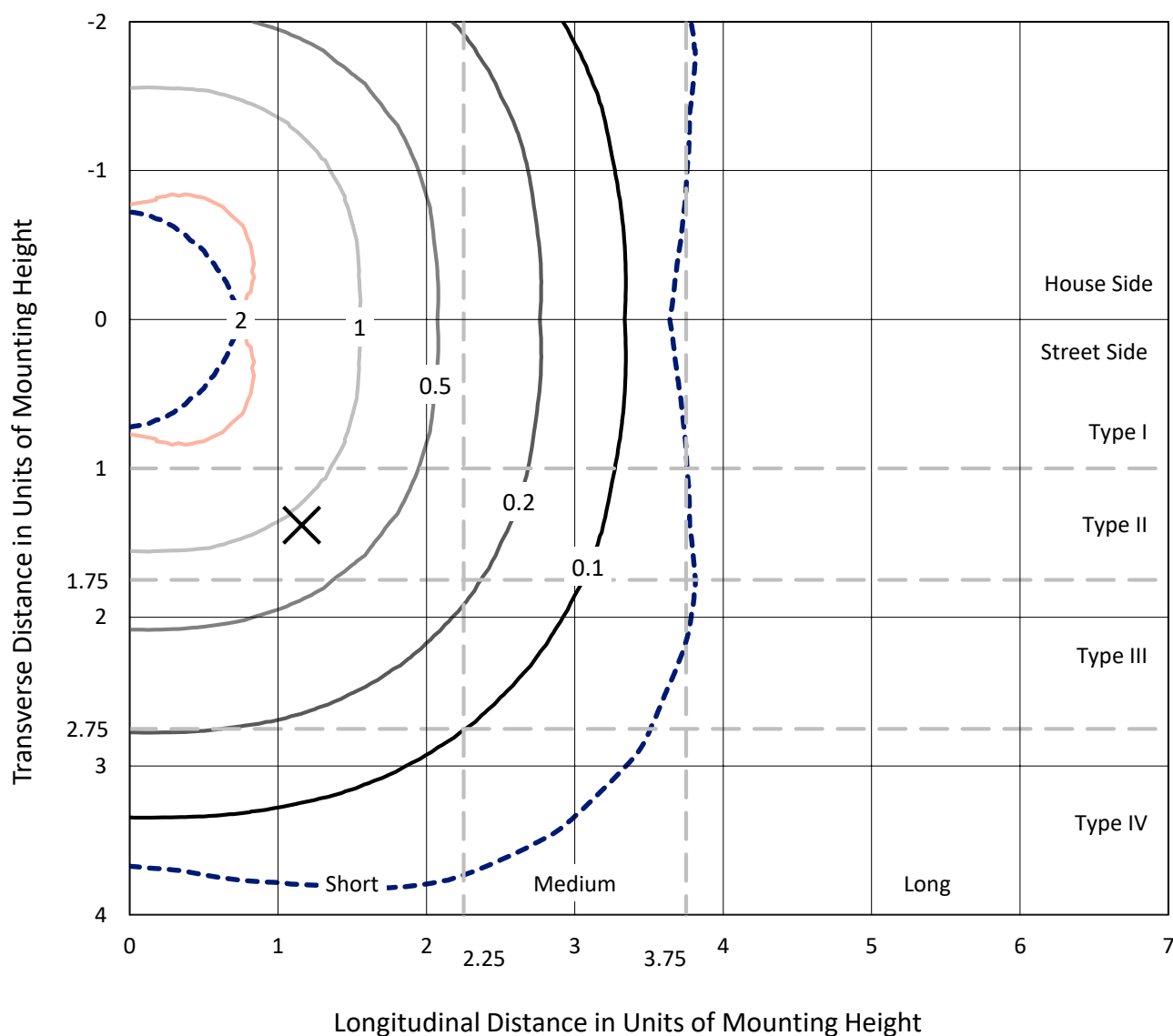


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

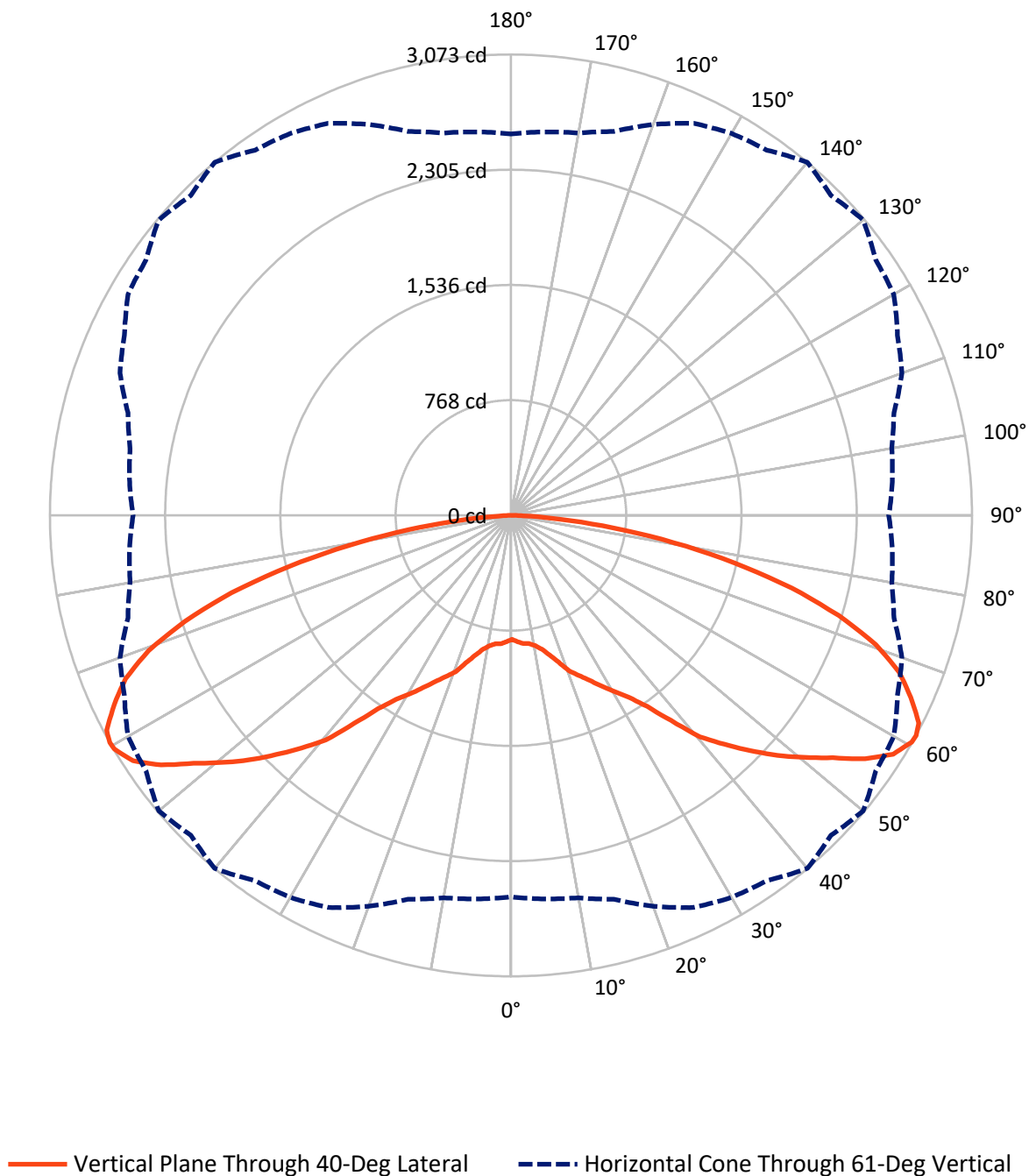


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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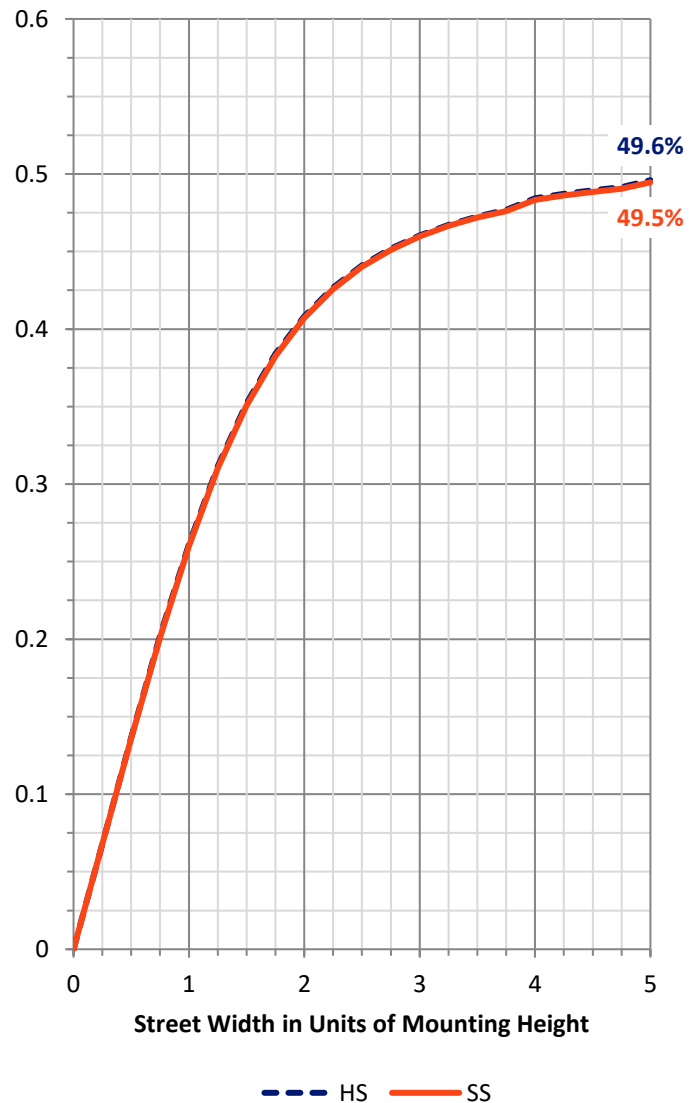
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.2	0.0	5374.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5374.2	0.0	5374.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10748.4	0.0	10748.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	0.8
10°-20°	277.9	2.6
20°-30°	563.6	5.2
30°-40°	980.2	9.1
40°-50°	1650.0	15.4
50°-60°	2377.2	22.1
60°-70°	2637.8	24.5
70°-80°	1791.4	16.7
80°-90°	388.0	3.6
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°	10748.4	100.0
0°-180°	10748.4	100.0

Coefficient of Utilization



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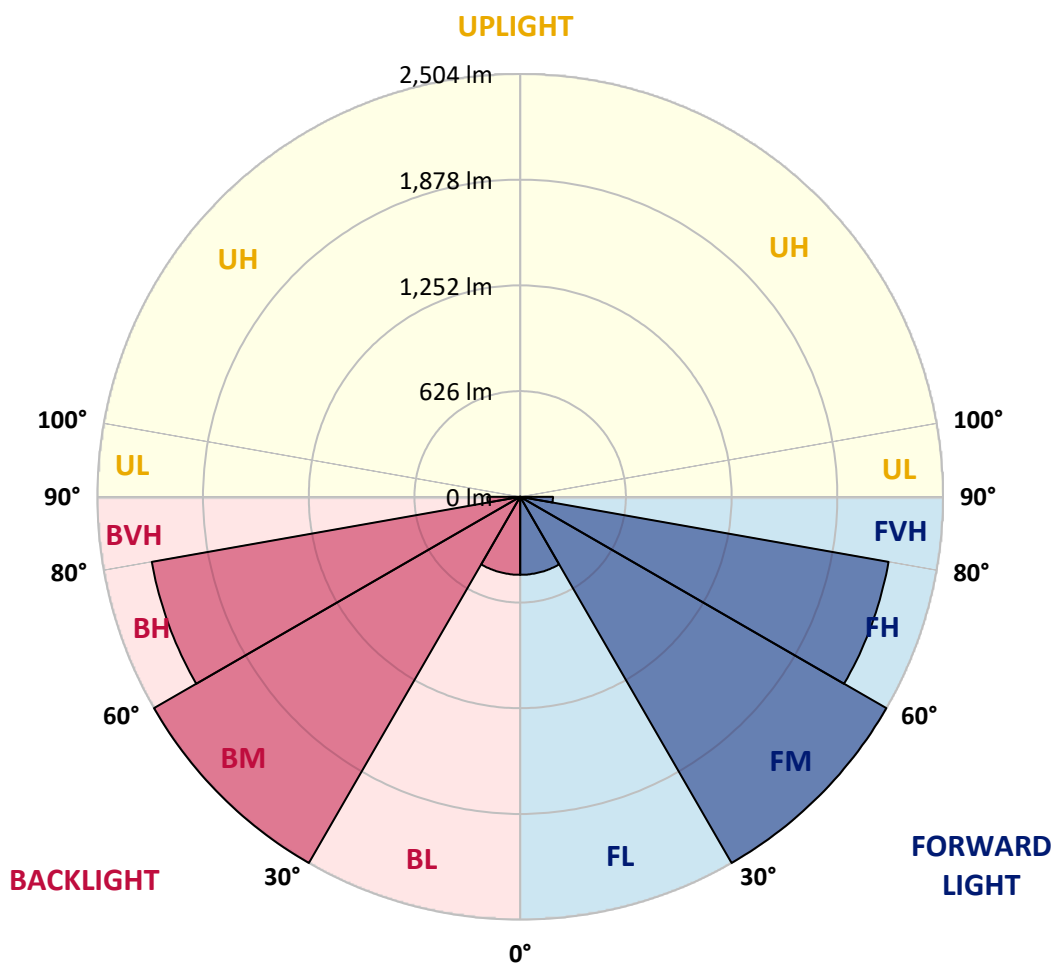
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.9	4.3			
FM	(30°-60°)	2503.7	23.3			
FH	(60°-80°)	2214.6	20.6			G2/5000
FVH	(80°-90°)	194.0	1.8			G2/225
BL	(0°-30°)	461.9	4.3	B1/500		
BM	(30°-60°)	2503.7	23.3	B3/5000		
BH	(60°-80°)	2214.6	20.6	B3/2500		G2/5000
BVH	(80°-90°)	194.0	1.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8
2.5°	845.3	845.3	845.3	845.3	845.3	843.1	845.3	843.1	843.1	843.1	843.1
5°	851.8	854.0	854.0	854.0	854.0	856.2	856.2	858.4	858.4	858.4	858.4
7.5°	858.4	858.4	858.4	858.4	858.4	858.4	860.5	860.5	862.7	862.7	864.9
10°	884.4	884.4	886.6	886.6	884.4	884.4	884.4	882.3	882.3	880.1	880.1
12.5°	921.4	921.4	923.6	925.7	925.7	923.6	921.4	917.0	914.9	914.9	914.9
15°	949.6	951.8	956.1	960.5	962.7	962.7	964.8	964.8	964.8	962.7	960.5
17.5°	1004.0	1004.0	1006.1	1008.3	1008.3	1010.5	1014.8	1019.2	1027.9	1030.0	1023.5
20°	1082.2	1084.4	1090.9	1088.7	1088.7	1093.1	1097.4	1099.6	1106.1	1110.4	1110.4
22.5°	1140.9	1145.2	1153.9	1153.9	1151.7	1153.9	1158.2	1158.2	1158.2	1156.1	1160.4
25°	1186.5	1190.8	1197.4	1197.4	1201.7	1212.6	1225.6	1223.4	1216.9	1216.9	1214.7
27.5°	1247.3	1249.5	1253.9	1253.9	1260.4	1266.9	1275.6	1284.3	1288.6	1286.5	1282.1
30°	1323.4	1327.7	1332.1	1325.6	1336.4	1343.0	1347.3	1347.3	1364.7	1373.4	1358.2
32.5°	1379.9	1388.6	1397.3	1403.8	1425.5	1436.4	1429.9	1436.4	1445.1	1453.8	1453.8
35°	1473.3	1482.0	1488.6	1492.9	1514.6	1529.8	1547.2	1564.6	1562.4	1555.9	1569.0
37.5°	1608.1	1616.8	1623.3	1632.0	1660.2	1671.1	1684.1	1721.1	1734.1	1716.7	1725.4
40°	1751.5	1766.7	1788.4	1814.5	1855.8	1868.8	1890.6	1916.6	1940.5	1949.2	1927.5
42.5°	1875.4	1892.7	1897.1	1938.4	1988.4	2027.5	2057.9	2064.4	2086.1	2105.7	2090.5
45°	2007.9	2023.1	2034.0	2068.8	2097.0	2151.3	2201.3	2225.2	2236.1	2233.9	2251.3
47.5°	2131.8	2149.2	2164.4	2201.3	2236.1	2281.7	2314.3	2370.8	2390.4	2364.3	2392.5
50°	2207.8	2229.6	2249.1	2318.7	2379.5	2427.3	2453.4	2501.2	2536.0	2518.6	2525.1
52.5°	2333.9	2342.6	2357.8	2396.9	2477.3	2588.1	2614.2	2640.3	2683.7	2705.5	2666.4
55°	2494.7	2518.6	2540.3	2590.3	2631.6	2714.2	2833.7	2866.3	2864.1	2931.5	2870.6
57.5°	2529.4	2564.2	2607.7	2698.9	2779.4	2827.2	2903.2	2994.5	3003.2	3007.5	3016.2
60°	2533.8	2555.5	2583.8	2659.8	2801.1	2888.0	2931.5	2990.1	3068.4	3011.9	3070.5
61°	2542.5	2566.4	2588.1	2649.0	2772.8	2883.7	2940.2	2972.8	3072.7	3016.2	3064.0
62.5°	2527.3	2555.5	2588.1	2646.8	2729.4	2842.4	2951.0	2951.0	3051.0	3014.0	3040.1
65°	2436.0	2462.1	2525.1	2601.2	2701.1	2759.8	2872.8	2944.5	2929.3	2994.5	2929.3
67.5°	2281.7	2303.5	2357.8	2446.9	2555.5	2638.1	2690.3	2805.4	2790.2	2857.6	2783.7
70°	2064.4	2092.7	2160.0	2220.9	2323.0	2409.9	2479.5	2549.0	2579.4	2572.9	2577.3
72.5°	1803.6	1823.2	1884.0	1951.4	2031.8	2129.6	2192.6	2236.1	2283.9	2281.7	2290.4
75°	1501.6	1519.0	1571.1	1621.1	1699.3	1775.4	1847.1	1892.7	1931.9	1929.7	1921.0
77.5°	1158.2	1177.8	1236.5	1279.9	1316.9	1401.6	1456.0	1486.4	1519.0	1519.0	1523.3
80°	808.4	821.4	867.1	912.7	947.5	988.7	1058.3	1064.8	1101.7	1093.1	1101.7
82.5°	486.8	495.5	530.2	556.3	580.2	619.3	651.9	665.0	686.7	678.0	691.0
85°	219.5	223.8	245.6	260.8	271.6	293.4	310.7	317.3	328.1	326.0	334.7
87.5°	45.6	50.0	56.5	60.8	63.0	71.7	78.2	78.2	82.6	82.6	84.7
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°	825.8	825.8	825.8	825.8	825.8	825.8	825.8	825.8
2.5°	843.1	845.3	843.1	843.1	843.1	845.3	843.1	845.3
5°	858.4	858.4	858.4	856.2	854.0	854.0	854.0	851.8
7.5°	867.1	867.1	864.9	862.7	860.5	862.7	862.7	862.7
10°	884.4	888.8	891.0	891.0	888.8	888.8	888.8	886.6
12.5°	914.9	917.0	923.6	925.7	927.9	925.7	919.2	917.0
15°	956.1	956.1	958.3	962.7	962.7	954.0	947.5	945.3
17.5°	1014.8	1012.6	1008.3	1008.3	1010.5	1006.1	999.6	999.6
20°	1103.9	1095.2	1090.9	1084.4	1090.9	1090.9	1077.8	1071.3
22.5°	1166.9	1158.2	1147.4	1140.9	1149.6	1156.1	1140.9	1132.2
25°	1221.3	1223.4	1206.1	1197.4	1199.5	1203.9	1184.3	1182.1
27.5°	1277.8	1282.1	1273.4	1258.2	1253.9	1262.6	1247.3	1243.0
30°	1347.3	1345.1	1349.5	1329.9	1321.2	1327.7	1325.6	1314.7
32.5°	1438.6	1427.7	1432.1	1414.7	1397.3	1397.3	1384.2	1371.2
35°	1564.6	1540.7	1529.8	1519.0	1486.4	1488.6	1477.7	1466.8
37.5°	1729.8	1692.8	1662.4	1668.9	1621.1	1616.8	1610.2	1595.0
40°	1918.8	1901.4	1866.7	1847.1	1797.1	1773.2	1764.5	1736.3
42.5°	2060.1	2064.4	2012.3	1977.5	1938.4	1897.1	1892.7	1864.5
45°	2212.2	2197.0	2149.2	2092.7	2075.3	2025.3	2018.8	1990.5
47.5°	2364.3	2312.1	2283.9	2225.2	2197.0	2134.0	2138.3	2112.2
50°	2507.7	2446.9	2420.8	2351.3	2307.8	2244.8	2229.6	2186.1
52.5°	2659.8	2603.3	2562.0	2472.9	2409.9	2362.1	2336.0	2318.7
55°	2864.1	2807.6	2714.2	2631.6	2579.4	2501.2	2492.5	2462.1
57.5°	2959.7	2918.4	2816.3	2757.6	2664.2	2583.8	2557.7	2496.9
60°	2970.6	2953.2	2844.5	2788.0	2651.1	2585.9	2553.4	2516.4
61°	2968.4	2946.7	2842.4	2772.8	2642.4	2577.3	2551.2	2518.6
62.5°	2959.7	2933.6	2818.5	2746.8	2625.1	2562.0	2540.3	2492.5
65°	2931.5	2859.8	2759.8	2694.6	2562.0	2505.5	2453.4	2405.6
67.5°	2807.6	2672.9	2631.6	2549.0	2414.3	2351.3	2303.5	2262.2
70°	2542.5	2453.4	2409.9	2307.8	2199.1	2147.0	2092.7	2040.5
72.5°	2231.7	2173.1	2136.1	2012.3	1931.9	1879.7	1829.7	1779.7
75°	1884.0	1840.6	1773.2	1679.8	1608.1	1555.9	1510.3	1486.4
77.5°	1479.9	1451.6	1399.5	1306.0	1266.9	1221.3	1175.6	1138.7
80°	1064.8	1043.1	1001.8	934.4	901.8	856.2	823.6	793.2
82.5°	662.8	645.4	621.5	571.5	558.5	530.2	499.8	478.1
85°	317.3	306.4	297.7	265.1	262.9	239.0	228.2	215.1
87.5°	82.6	80.4	76.1	65.2	63.0	56.5	52.2	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)