

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: P198203

Luminaire Tested: **TT-C3-LED-E1-DL-CG-LWR-LW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-DL-CG-LWR-LW-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705.1 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 66.5
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

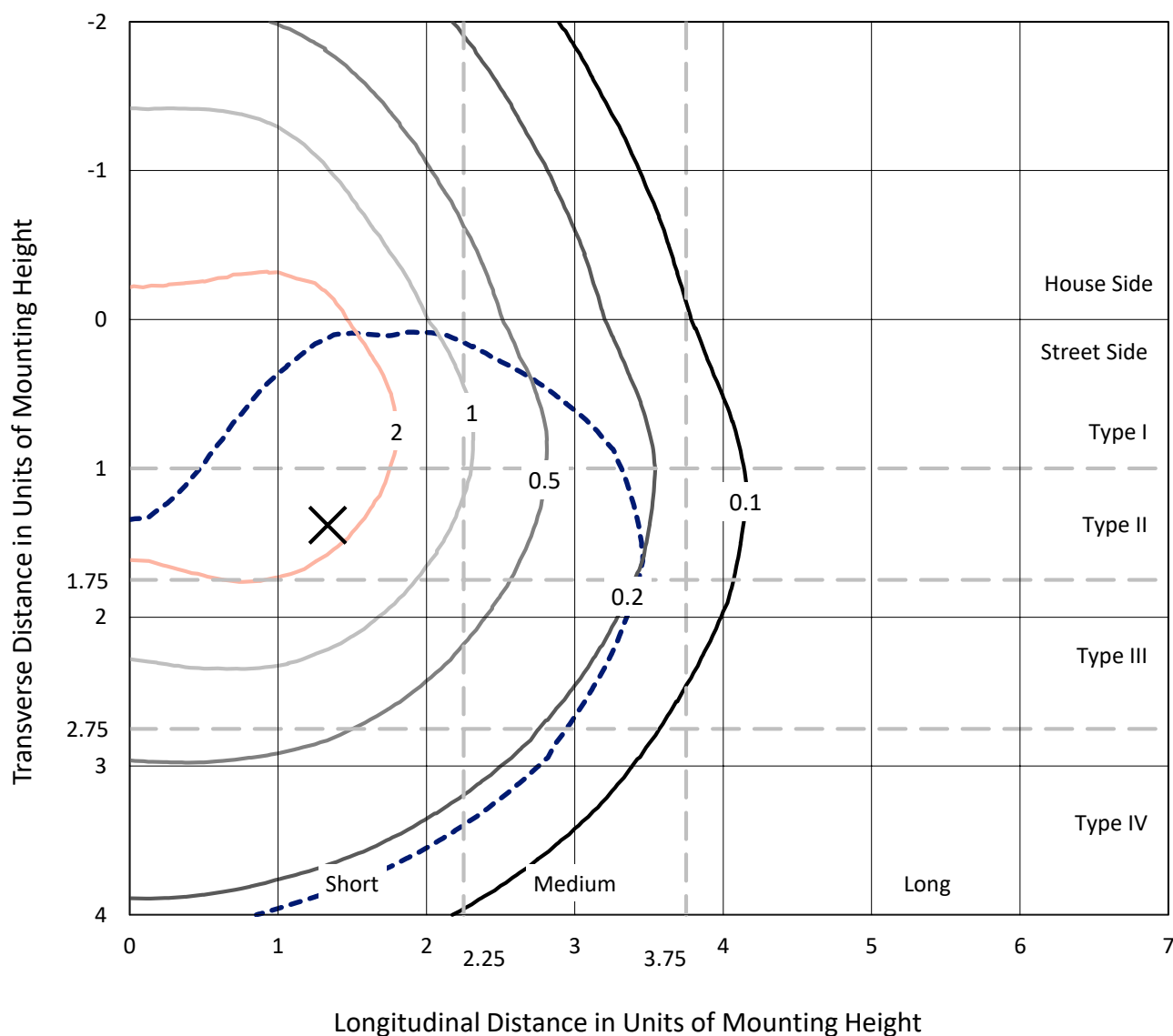


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

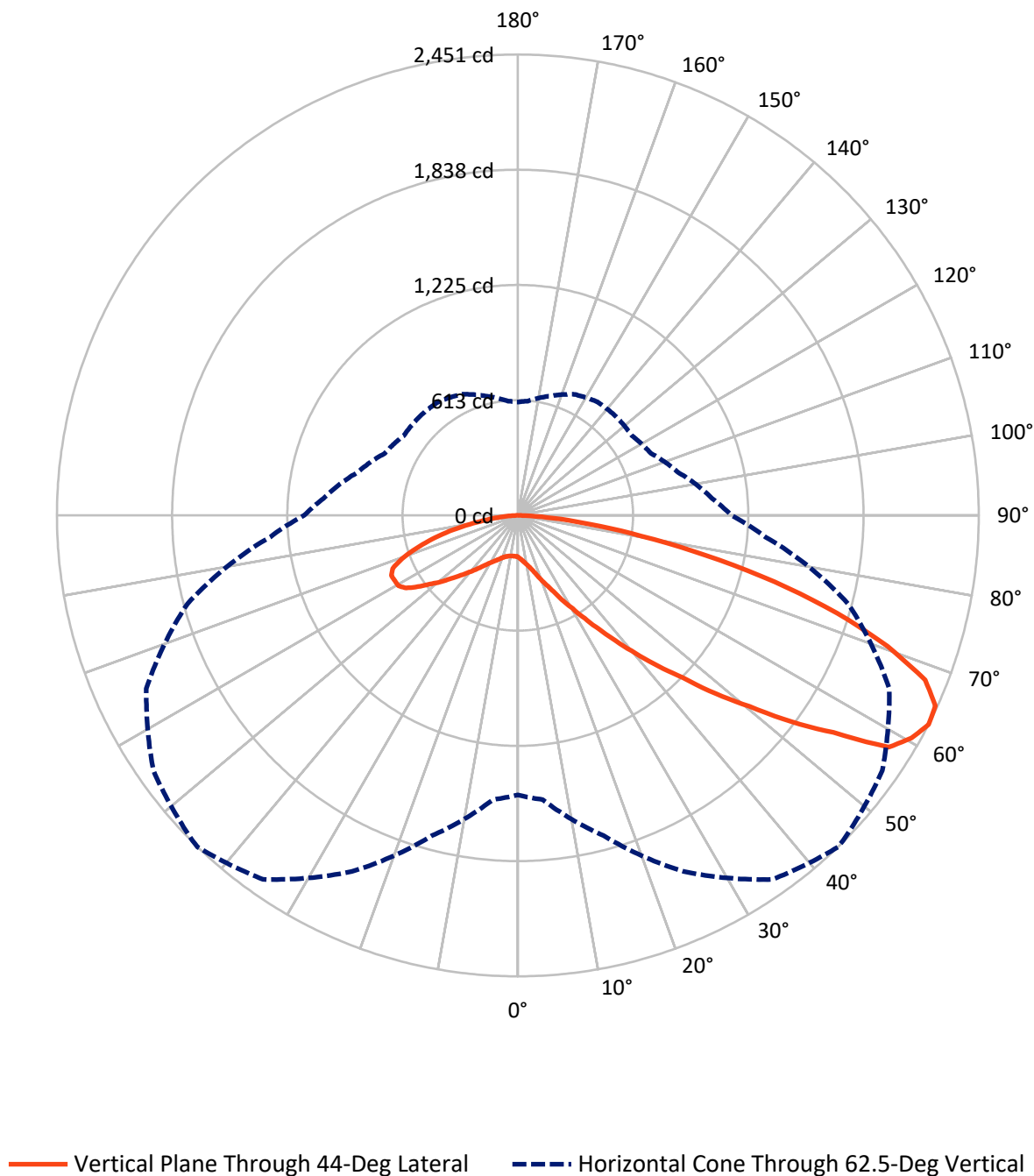


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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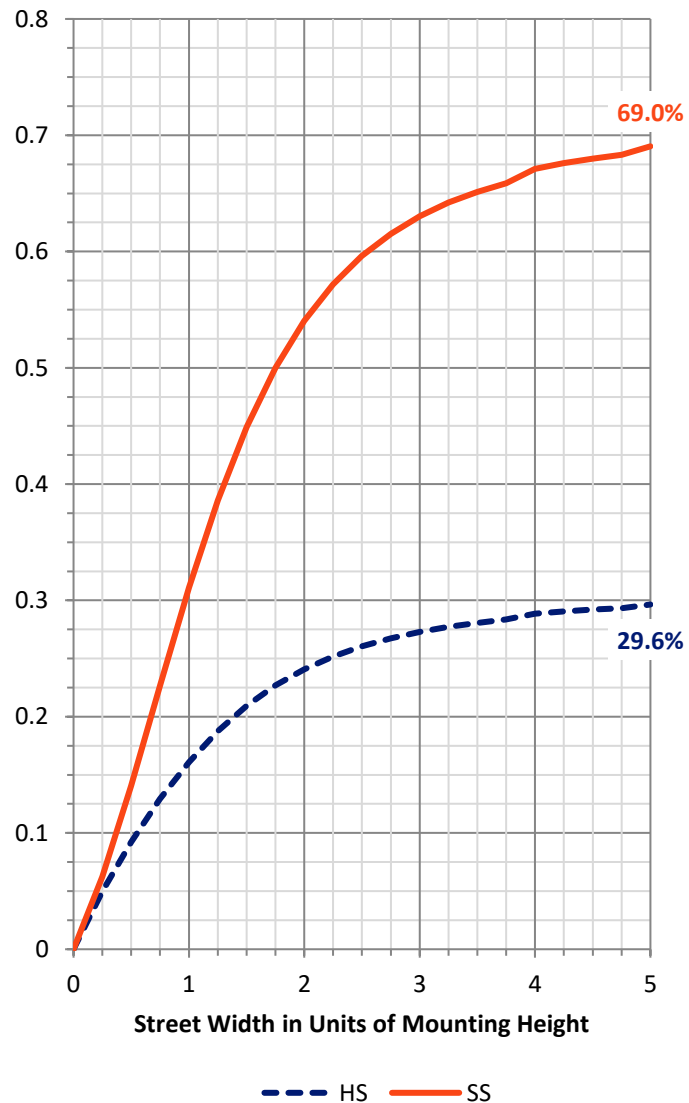
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.8	0.0	1412.8
	% Fixture	30.0	0.0	30.0
Street Side	Lumens	3292.3	0.0	3292.3
	% Fixture	70.0	0.0	70.0
Total	Lumens	4705.1	0.0	4705.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.5
10°-20°	76.6	1.6
20°-30°	165.8	3.5
30°-40°	327.2	7.0
40°-50°	618.6	13.1
50°-60°	1063.2	22.6
60°-70°	1334.0	28.4
70°-80°	911.1	19.4
80°-90°	186.4	4.0
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°	4705.1	100.0
0°-180°	4705.1	100.0

Coefficient of Utilization



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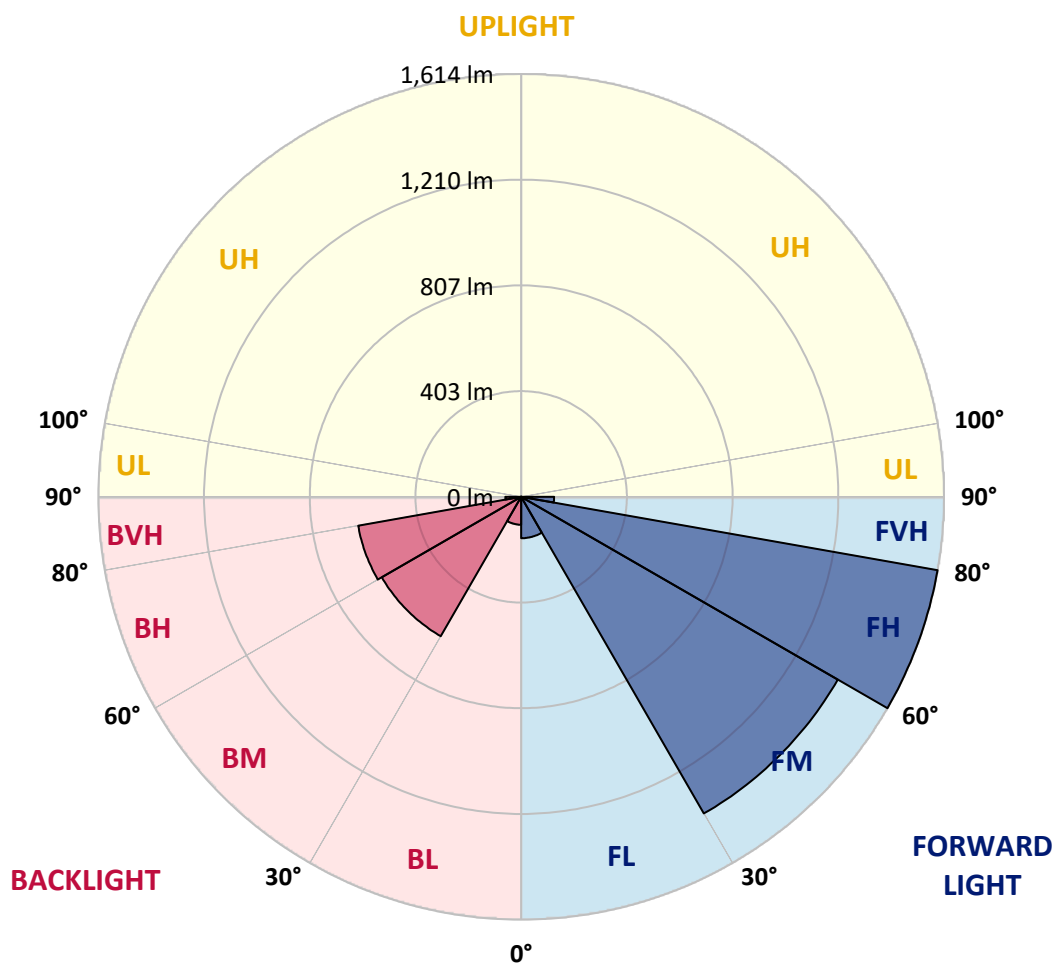
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	157.9	3.4			
FM	(30°-60°)	1395.0	29.6			
FH	(60°-80°)	1613.5	34.3			G1/1800
FVH	(80°-90°)	125.8	2.7			G2/225
BL	(0°-30°)	106.7	2.3	B0/110		
BM	(30°-60°)	614.0	13.0	B1/1000		
BH	(60°-80°)	631.5	13.4	B2/1000		G2/1000
BVH	(80°-90°)	60.6	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9
2.5°	231.8	231.8	231.8	231.8	229.8	229.8	229.8	228.8	227.8	225.8	224.9
5°	243.7	244.7	243.7	242.7	240.7	239.7	238.7	237.7	234.8	231.8	228.8
7.5°	258.5	257.5	257.5	256.5	253.6	251.6	251.6	247.6	243.7	239.7	234.8
10°	274.4	275.4	275.4	272.4	270.4	266.5	266.5	260.5	255.6	249.6	243.7
12.5°	294.2	293.2	295.2	293.2	290.2	283.3	283.3	278.3	269.4	261.5	253.6
15°	319.0	319.0	319.9	316.0	313.0	306.1	308.1	295.2	287.3	278.3	265.5
17.5°	350.7	350.7	347.7	345.7	340.7	336.8	332.8	321.9	310.0	295.2	280.3
20°	386.3	387.3	382.3	382.3	376.4	371.5	368.5	355.6	337.8	318.0	299.1
22.5°	429.9	427.9	424.0	420.0	417.0	408.1	411.1	394.2	370.5	343.7	319.0
25°	464.6	467.5	467.5	470.5	465.6	455.6	458.6	437.8	410.1	378.4	343.7
27.5°	507.2	513.1	518.1	524.0	522.0	515.1	513.1	494.3	458.6	421.0	374.4
30°	553.7	562.6	566.6	577.5	580.5	574.5	573.5	554.7	520.0	463.6	413.1
32.5°	614.1	613.1	625.0	643.8	655.7	652.8	651.8	631.0	584.4	525.0	455.6
35°	672.6	674.6	688.4	717.1	736.0	741.9	740.9	719.1	672.6	598.3	512.1
37.5°	736.0	738.9	765.7	800.4	831.1	845.9	845.9	836.0	773.6	673.6	574.5
40°	798.4	812.2	842.9	887.5	939.0	963.8	962.8	947.0	889.5	777.6	639.9
42.5°	873.7	887.5	921.2	984.6	1049.0	1096.5	1096.5	1091.6	1019.3	899.4	735.0
45°	947.9	959.8	1001.4	1081.7	1175.8	1231.2	1238.2	1256.0	1205.5	1037.1	844.9
47.5°	1027.2	1037.1	1090.6	1191.6	1309.5	1417.5	1424.4	1438.3	1357.0	1171.8	931.1
50°	1106.4	1110.4	1188.6	1324.3	1491.8	1594.8	1617.5	1645.3	1532.4	1334.3	1028.2
52.5°	1197.6	1199.5	1290.7	1464.0	1673.0	1823.6	1827.5	1847.4	1785.0	1533.4	1209.4
55°	1277.8	1280.8	1397.6	1620.5	1892.9	2037.5	2077.2	2134.6	1982.1	1667.1	1262.9
57.5°	1352.1	1364.0	1524.4	1809.7	2105.9	2324.8	2317.9	2314.9	2098.0	1720.6	1273.8
60°	1424.4	1446.2	1651.2	1963.2	2262.4	2404.0	2412.0	2355.5	2128.7	1742.4	1262.9
62.5°	1486.8	1516.5	1762.2	2089.0	2362.4	2450.6	2445.6	2365.4	2179.2	1818.6	1322.4
65°	1531.4	1572.0	1812.7	2142.5	2354.5	2439.7	2446.6	2404.0	2222.8	1822.6	1304.5
67.5°	1554.2	1611.6	1811.7	2106.9	2295.1	2335.7	2338.7	2260.4	2089.0	1725.5	1193.6
70°	1560.1	1597.7	1763.2	1976.1	2089.0	2085.1	2080.1	2021.7	1857.3	1539.3	1060.9
72.5°	1495.7	1529.4	1609.6	1740.4	1785.9	1776.0	1757.2	1691.8	1580.9	1323.4	904.4
75°	1354.1	1366.0	1368.9	1405.6	1407.6	1410.5	1388.7	1346.1	1267.9	1069.8	722.1
77.5°	1090.6	1108.4	1069.8	1028.2	1027.2	1023.2	1018.3	964.8	927.1	802.3	536.9
80°	794.4	786.5	754.8	707.2	675.5	665.6	659.7	644.8	622.1	549.7	373.4
82.5°	479.4	488.3	455.6	422.0	405.1	388.3	397.2	381.4	369.5	335.8	228.8
85°	214.9	214.9	208.0	199.1	185.2	186.2	188.2	182.3	174.3	157.5	109.9
87.5°	41.6	37.6	40.6	41.6	38.6	39.6	42.6	44.6	46.6	43.6	32.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9	220.9
2.5°	224.9	223.9	222.9	220.9	218.9	217.9	216.9	215.9	215.9	214.9	214.9
5°	227.8	226.8	224.9	222.9	220.9	217.9	215.9	214.9	213.0	213.0	213.0
7.5°	232.8	230.8	226.8	223.9	220.9	217.9	215.9	214.0	213.0	211.0	211.0
10°	239.7	236.7	231.8	225.8	221.9	218.9	215.9	214.0	213.0	212.0	212.0
12.5°	249.6	244.7	236.7	230.8	224.9	220.9	217.9	215.9	214.9	214.0	214.0
15°	259.5	254.6	244.7	235.7	228.8	224.9	220.9	219.9	217.9	217.9	217.9
17.5°	273.4	265.5	253.6	243.7	235.7	229.8	226.8	223.9	223.9	224.9	224.9
20°	289.2	280.3	265.5	252.6	243.7	237.7	234.8	232.8	231.8	232.8	233.8
22.5°	308.1	295.2	276.4	264.5	254.6	247.6	244.7	242.7	241.7	243.7	242.7
25°	326.9	314.0	292.2	276.4	264.5	259.5	256.5	255.6	253.6	255.6	254.6
27.5°	358.6	340.7	311.0	290.2	279.3	273.4	269.4	267.4	267.4	267.4	266.5
30°	386.3	365.5	330.8	310.0	294.2	287.3	283.3	282.3	282.3	283.3	282.3
32.5°	424.9	399.2	358.6	330.8	316.0	305.1	301.1	300.1	300.1	299.1	300.1
35°	474.5	443.8	390.3	357.6	337.8	327.9	323.9	322.9	319.9	319.9	319.9
37.5°	528.0	487.3	427.9	392.3	367.5	354.6	348.7	344.7	342.7	340.7	340.7
40°	586.4	539.8	473.5	426.9	401.2	384.3	373.4	367.5	364.5	361.5	359.6
42.5°	662.7	611.2	526.0	469.5	436.8	418.0	402.2	396.2	388.3	385.3	379.4
45°	762.7	697.3	591.4	528.0	480.4	453.7	437.8	424.9	415.0	410.1	405.1
47.5°	841.0	763.7	654.7	578.5	531.9	497.3	475.5	454.7	442.8	433.9	431.9
50°	920.2	839.0	722.1	631.0	579.5	548.8	520.0	494.3	472.5	462.6	464.6
52.5°	1073.7	975.7	812.2	702.3	630.0	595.3	565.6	533.9	509.1	493.3	494.3
55°	1117.3	1017.3	870.7	771.6	702.3	656.7	617.1	582.4	546.8	524.0	525.0
57.5°	1114.4	1015.3	875.6	790.4	744.9	712.2	675.5	628.0	586.4	556.7	552.7
60°	1099.5	999.5	866.7	780.5	746.9	738.9	720.1	676.5	620.1	586.4	579.5
62.5°	1136.1	1037.1	882.6	780.5	739.9	740.9	737.0	710.2	656.7	610.2	602.2
65°	1120.3	1013.3	872.7	787.5	752.8	744.9	742.9	717.1	680.5	628.0	621.1
67.5°	1026.2	933.1	805.3	730.0	715.2	722.1	732.0	715.2	678.5	638.9	630.0
70°	900.4	821.2	713.2	647.8	640.9	654.7	677.5	679.5	658.7	628.0	629.0
72.5°	759.7	696.3	605.2	560.6	552.7	565.6	594.3	608.2	609.2	598.3	597.3
75°	610.2	552.7	487.3	449.7	451.7	471.5	493.3	517.1	525.0	531.9	537.9
77.5°	454.7	424.0	368.5	343.7	348.7	370.5	384.3	399.2	416.0	424.0	429.9
80°	318.0	291.2	254.6	239.7	245.7	258.5	270.4	283.3	305.1	306.1	318.0
82.5°	199.1	181.3	162.4	157.5	158.5	163.4	177.3	185.2	195.1	198.1	196.1
85°	97.1	93.1	87.2	84.2	85.2	90.1	99.1	105.0	110.9	109.9	104.0
87.5°	30.7	31.7	32.7	33.7	33.7	36.6	39.6	39.6	41.6	40.6	40.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)