

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: P200673

Luminaire Tested: **GWC-AF-01-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T3-8030-1200
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5692 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

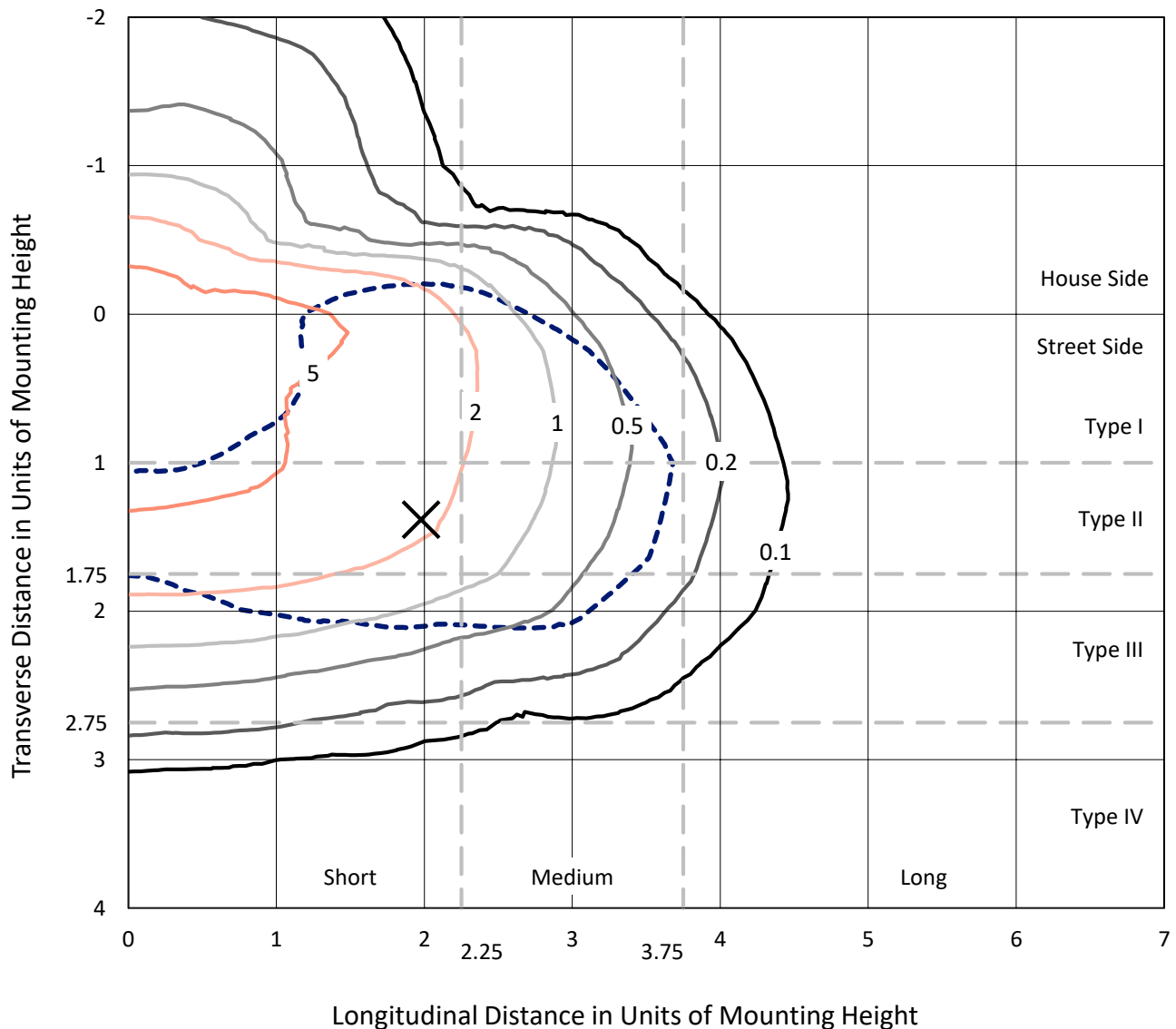


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

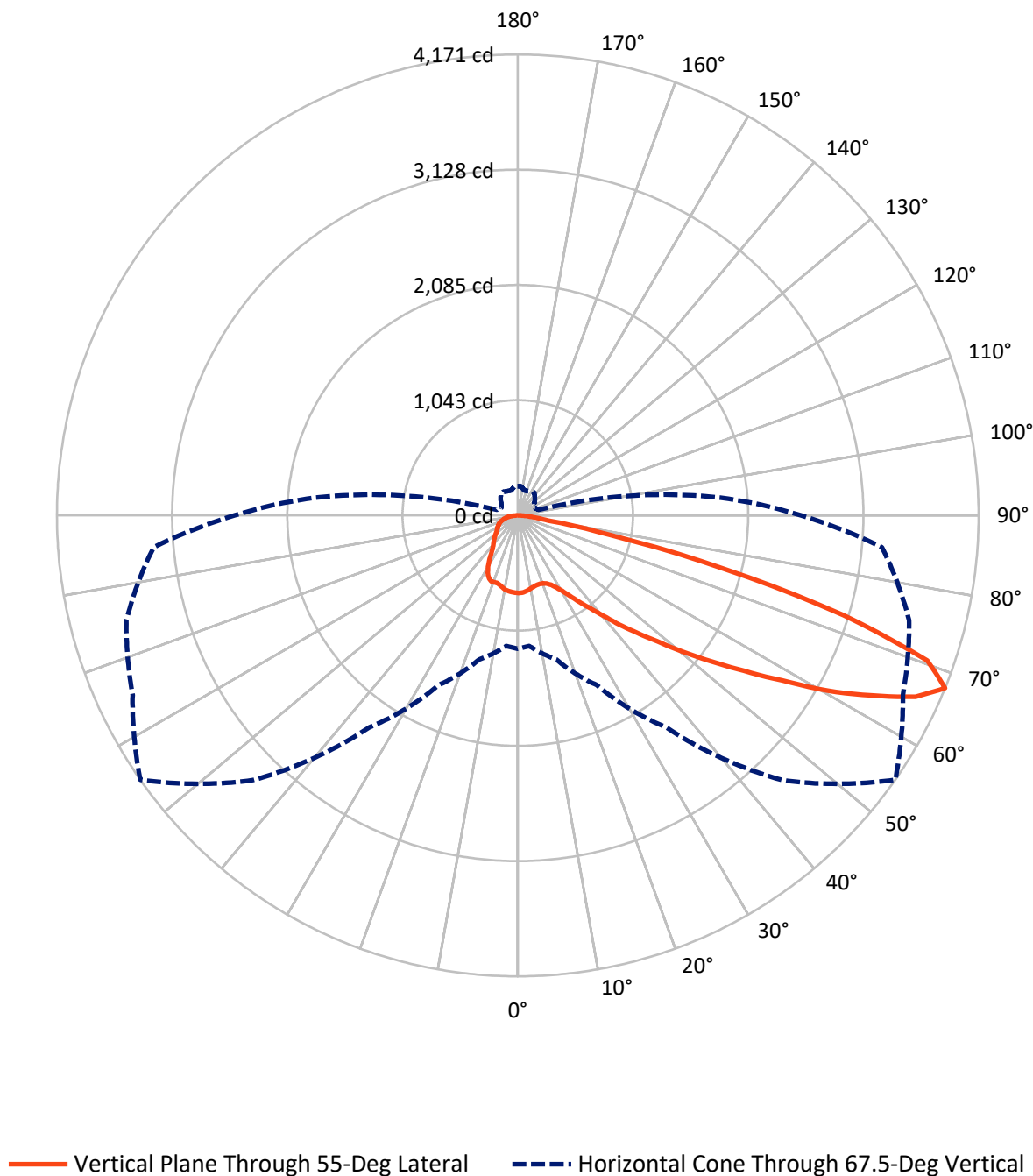


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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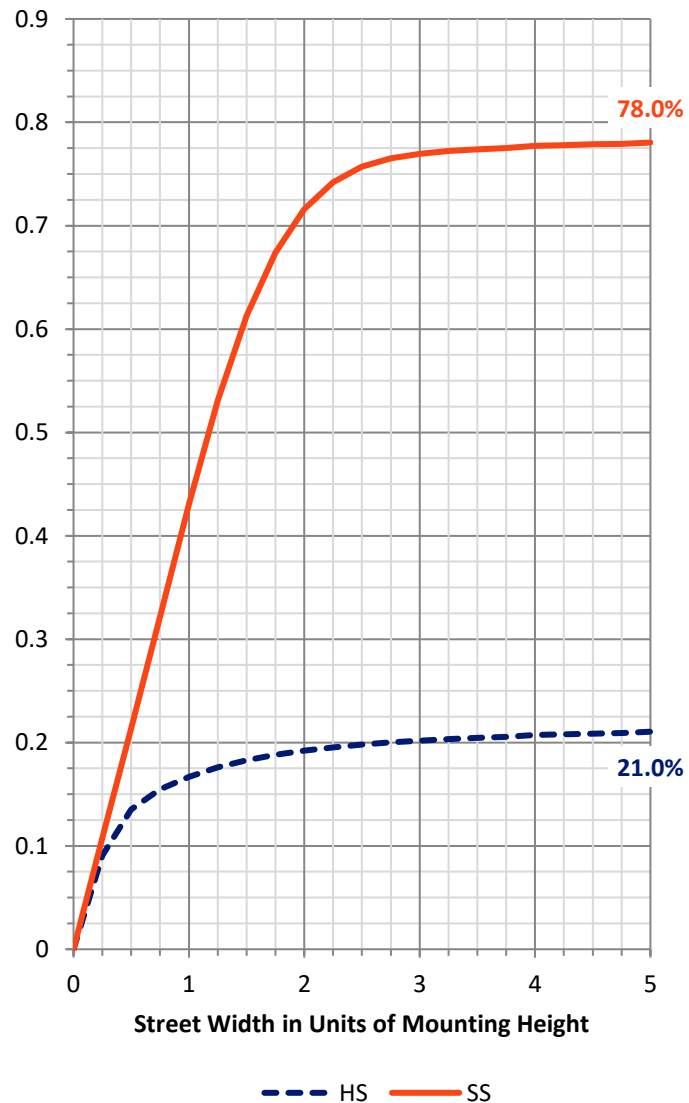
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1229.6	0.0	1229.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4462.4	0.0	4462.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	5692.0	0.0	5692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.2
10°-20°	185.5	3.3
20°-30°	310.8	5.5
30°-40°	511.1	9.0
40°-50°	860.3	15.1
50°-60°	1354.1	23.8
60°-70°	1616.0	28.4
70°-80°	693.9	12.2
80°-90°	94.6	1.7
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°	5692.0	100.0
0°-180°	5692.0	100.0

Coefficient of Utilization



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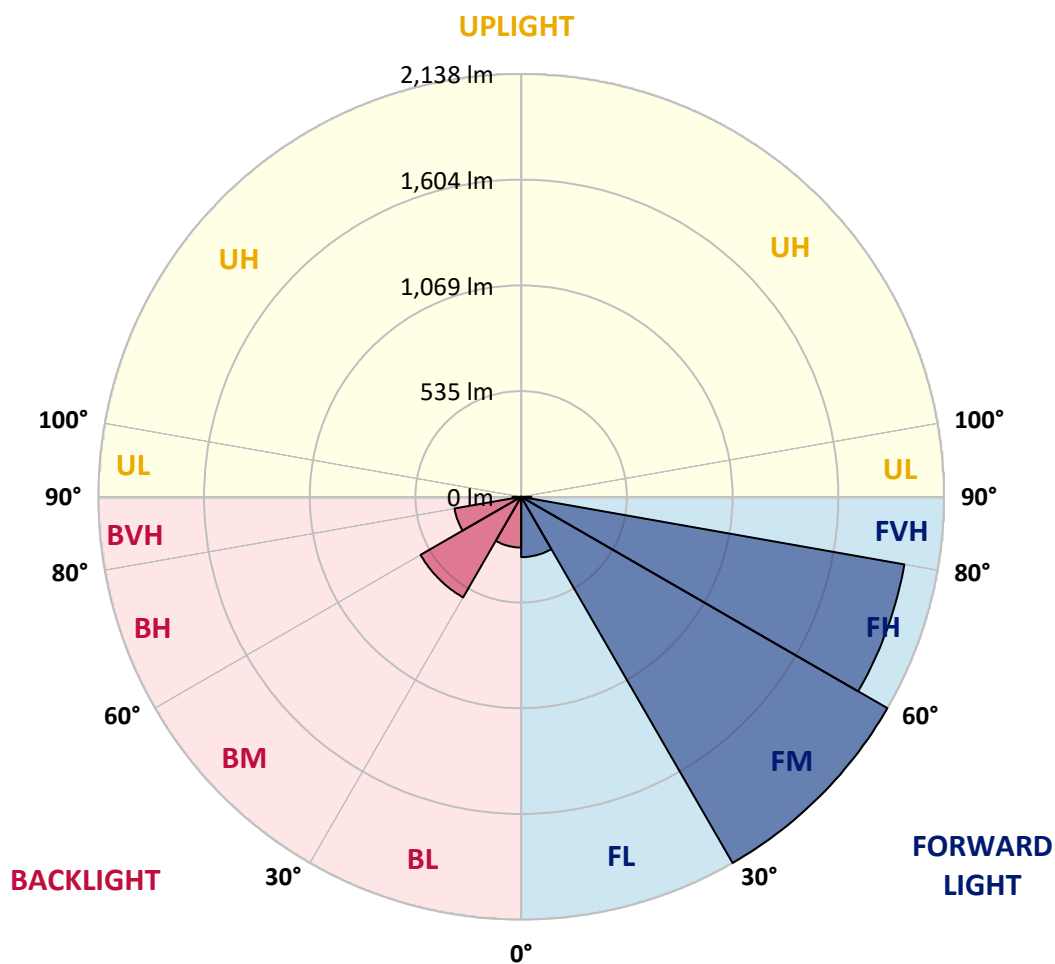
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	305.1	5.4			
FM	(30°-60°)	2138.3	37.6			
FH	(60°-80°)	1967.7	34.6			G2/5000
FVH	(80°-90°)	51.2	0.9			G1/100
BL	(0°-30°)	256.8	4.5	B1/500		
BM	(30°-60°)	587.2	10.3	B1/1000		
BH	(60°-80°)	342.2	6.0	B1/500		G1/500
BVH	(80°-90°)	43.4	0.8			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9
2.5°	695.8	696.1	696.7	698.9	700.8	700.2	700.5	699.4	699.1	697.5	699.1
5°	687.0	687.9	688.1	691.7	693.9	694.5	693.6	692.3	690.6	689.0	689.8
7.5°	667.0	669.2	669.4	674.4	678.0	682.6	682.9	683.2	682.4	681.3	682.9
10°	654.3	654.9	654.6	658.2	660.9	666.1	669.2	674.4	676.6	677.1	678.2
12.5°	653.5	652.9	652.1	652.1	651.3	653.5	659.0	666.4	671.6	673.3	674.7
15°	662.3	662.0	659.3	655.1	649.9	648.3	652.9	661.2	668.1	671.6	673.0
17.5°	682.1	680.4	676.0	666.7	655.4	651.0	651.6	658.4	666.4	671.1	672.5
20°	718.4	718.4	709.0	691.4	671.4	660.9	656.0	660.1	667.8	674.1	676.0
22.5°	781.1	781.6	765.9	737.1	703.3	681.0	668.6	667.8	676.9	684.0	686.2
25°	869.9	867.7	845.7	804.4	753.0	716.2	694.7	689.8	697.5	705.5	708.2
27.5°	973.2	965.3	939.1	889.4	822.9	769.0	736.0	728.0	735.4	744.5	747.2
30°	1075.5	1067.3	1036.2	981.8	907.8	839.6	792.3	779.4	789.9	802.8	804.4
32.5°	1177.8	1177.8	1143.1	1079.6	999.1	924.0	867.4	852.0	869.3	885.0	888.6
35°	1300.1	1300.7	1267.1	1190.7	1104.1	1024.6	962.2	951.0	977.1	988.1	996.6
37.5°	1450.5	1453.5	1410.4	1318.0	1223.1	1139.6	1065.3	1049.9	1076.1	1106.0	1133.5
40°	1613.0	1616.8	1569.3	1455.5	1360.6	1273.2	1192.9	1165.1	1208.6	1265.8	1301.2
42.5°	1768.0	1787.8	1741.9	1624.8	1522.8	1432.4	1351.0	1310.6	1365.0	1451.3	1482.1
45°	1992.1	2006.4	1926.4	1820.3	1724.3	1623.2	1515.4	1472.8	1548.9	1657.8	1664.1
47.5°	2141.4	2130.7	2090.0	2024.0	1963.2	1868.7	1706.5	1659.7	1760.9	1889.0	1853.6
50°	2220.9	2224.2	2218.7	2222.5	2224.7	2165.3	1940.7	1876.6	1997.3	2152.1	2070.5
52.5°	2295.1	2273.1	2291.2	2381.4	2490.3	2468.3	2195.6	2128.8	2250.8	2444.1	2299.8
55°	2293.4	2259.9	2319.0	2478.2	2714.3	2739.6	2481.8	2404.8	2518.9	2757.2	2542.8
57.5°	2212.3	2214.0	2305.0	2513.4	2870.5	2994.8	2813.9	2698.4	2803.1	3074.5	2764.7
60°	2100.7	2115.8	2247.0	2507.6	2995.6	3204.0	3221.3	3014.8	3081.6	3362.9	2948.3
62.5°	1920.6	1936.6	2117.5	2447.7	2976.6	3405.5	3589.7	3373.9	3372.8	3537.7	3002.2
65°	1636.6	1632.0	1821.9	2223.6	2817.4	3554.5	3955.6	3684.3	3592.2	3540.5	2893.9
67.5°	1206.9	1186.0	1349.1	1693.5	2341.8	3387.6	4170.9	3845.9	3667.0	3307.6	2562.9
70°	626.3	605.4	737.4	988.9	1540.1	2644.0	3932.5	3762.4	3501.7	2772.6	2007.8
72.5°	267.8	264.2	317.8	433.8	745.0	1525.0	3083.6	3256.5	3004.7	2065.8	1380.4
75°	180.1	179.0	199.0	236.4	335.1	618.9	1929.7	2311.6	2198.3	1280.9	776.4
77.5°	141.3	139.9	151.8	169.9	217.2	244.1	856.4	1241.0	1148.6	557.5	339.8
80°	110.5	109.4	116.8	126.7	156.2	154.0	281.8	493.8	382.1	213.6	165.2
82.5°	87.2	87.2	93.2	93.5	110.8	105.0	147.1	217.5	190.8	124.5	101.2
85°	79.7	79.7	86.1	69.8	72.3	66.3	91.3	128.9	121.0	51.1	44.0
87.5°	40.1	39.0	72.3	61.9	39.3	35.2	44.5	62.4	67.1	28.3	22.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9
2.5°	698.6	698.3	698.9	699.1	701.3	704.4	705.7	707.7	708.8	708.2
5°	690.3	690.9	693.1	694.7	698.6	703.5	706.3	708.5	710.4	709.6
7.5°	683.5	684.8	688.1	689.5	691.7	693.1	692.8	693.6	695.3	693.4
10°	679.6	681.3	683.7	681.8	676.6	669.2	662.3	658.7	659.8	658.4
12.5°	675.8	678.0	676.0	667.0	652.4	642.8	637.6	638.1	640.6	641.1
15°	673.6	674.4	666.1	649.1	634.3	632.9	635.6	635.1	635.4	635.4
17.5°	673.6	671.4	656.0	638.9	632.6	630.1	621.6	610.9	606.2	604.6
20°	677.1	671.4	652.7	641.4	627.7	606.5	583.9	564.1	555.4	552.9
22.5°	687.9	678.0	662.0	642.5	603.5	568.0	532.3	508.6	492.7	489.9
25°	709.6	698.6	680.4	627.9	565.0	514.4	473.7	447.3	431.4	429.2
27.5°	747.5	740.4	690.3	595.8	513.8	459.7	422.0	401.7	389.8	389.0
30°	804.7	801.1	685.4	548.2	450.9	406.6	388.5	376.6	367.9	367.6
32.5°	896.0	867.1	669.2	490.2	393.4	369.0	361.5	354.4	347.5	347.5
35°	1013.4	920.5	638.4	428.1	358.5	348.1	338.7	327.4	318.4	317.8
37.5°	1151.4	953.4	583.1	378.0	342.0	334.0	320.3	303.5	287.6	284.8
40°	1290.8	963.3	505.3	347.2	331.6	320.0	303.2	283.4	268.1	267.2
42.5°	1418.6	944.4	422.8	326.1	321.1	305.7	288.1	270.5	258.4	258.2
45°	1525.8	895.2	353.6	306.0	310.1	292.8	277.1	262.8	253.5	251.6
47.5°	1626.7	825.6	304.9	284.8	299.1	285.6	272.5	259.0	249.9	248.5
50°	1743.9	750.5	270.8	264.2	289.5	283.2	276.3	262.3	247.2	245.5
52.5°	1885.7	685.7	244.1	246.1	282.1	286.5	286.2	271.6	245.2	243.0
55°	2044.1	613.6	224.1	231.2	279.0	292.5	288.7	280.4	246.9	243.6
57.5°	2200.0	529.5	210.0	219.9	274.7	292.0	276.9	265.0	250.7	246.1
60°	2316.8	416.5	199.3	210.0	265.0	282.9	263.9	248.3	249.9	246.3
62.5°	2324.5	321.9	186.4	201.5	250.5	273.8	255.4	240.8	253.5	250.2
65°	2187.9	243.3	174.0	191.3	234.8	268.1	247.2	236.7	260.9	257.3
67.5°	1842.0	195.7	163.6	180.9	219.1	256.0	239.7	232.9	267.5	261.2
70°	1329.8	166.9	153.4	168.3	205.1	242.2	233.1	226.0	249.6	239.7
72.5°	818.7	144.6	141.9	151.5	194.4	227.9	223.2	213.1	224.9	216.9
75°	408.8	125.4	128.9	135.0	179.3	211.7	206.7	196.6	198.2	196.6
77.5°	195.7	107.2	113.8	118.5	159.7	193.3	188.0	177.6	175.7	176.0
80°	124.0	89.6	95.9	99.2	142.7	171.8	166.6	156.2	178.2	165.2
82.5°	77.5	72.9	74.5	80.6	124.3	149.6	142.7	133.3	160.6	127.0
85°	42.9	50.9	53.1	58.3	95.7	125.1	118.2	106.4	95.4	93.7
87.5°	25.6	30.2	31.1	34.9	64.3	90.5	80.0	75.9	63.0	62.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)