

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: P200685

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030-800
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4216 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



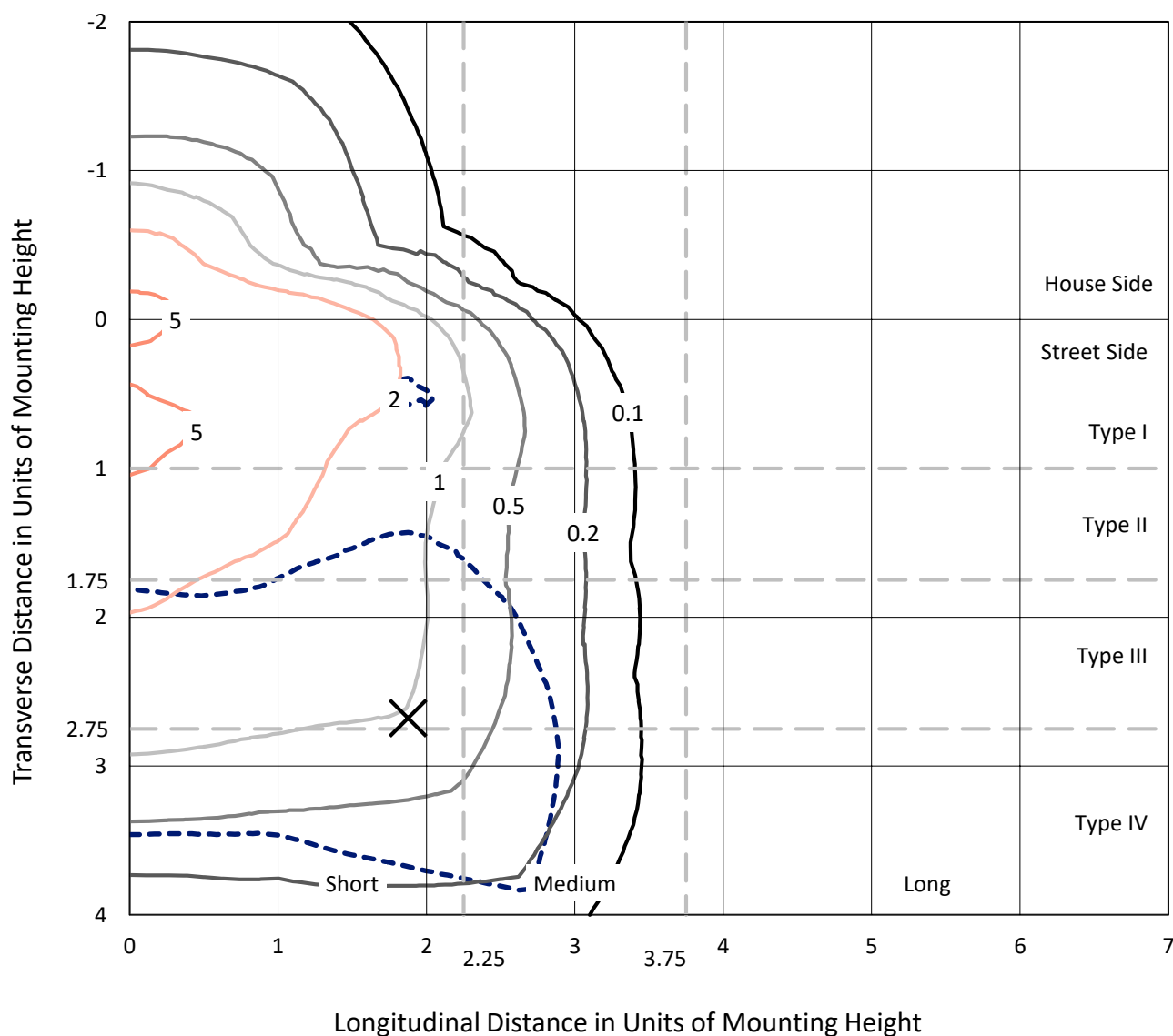
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

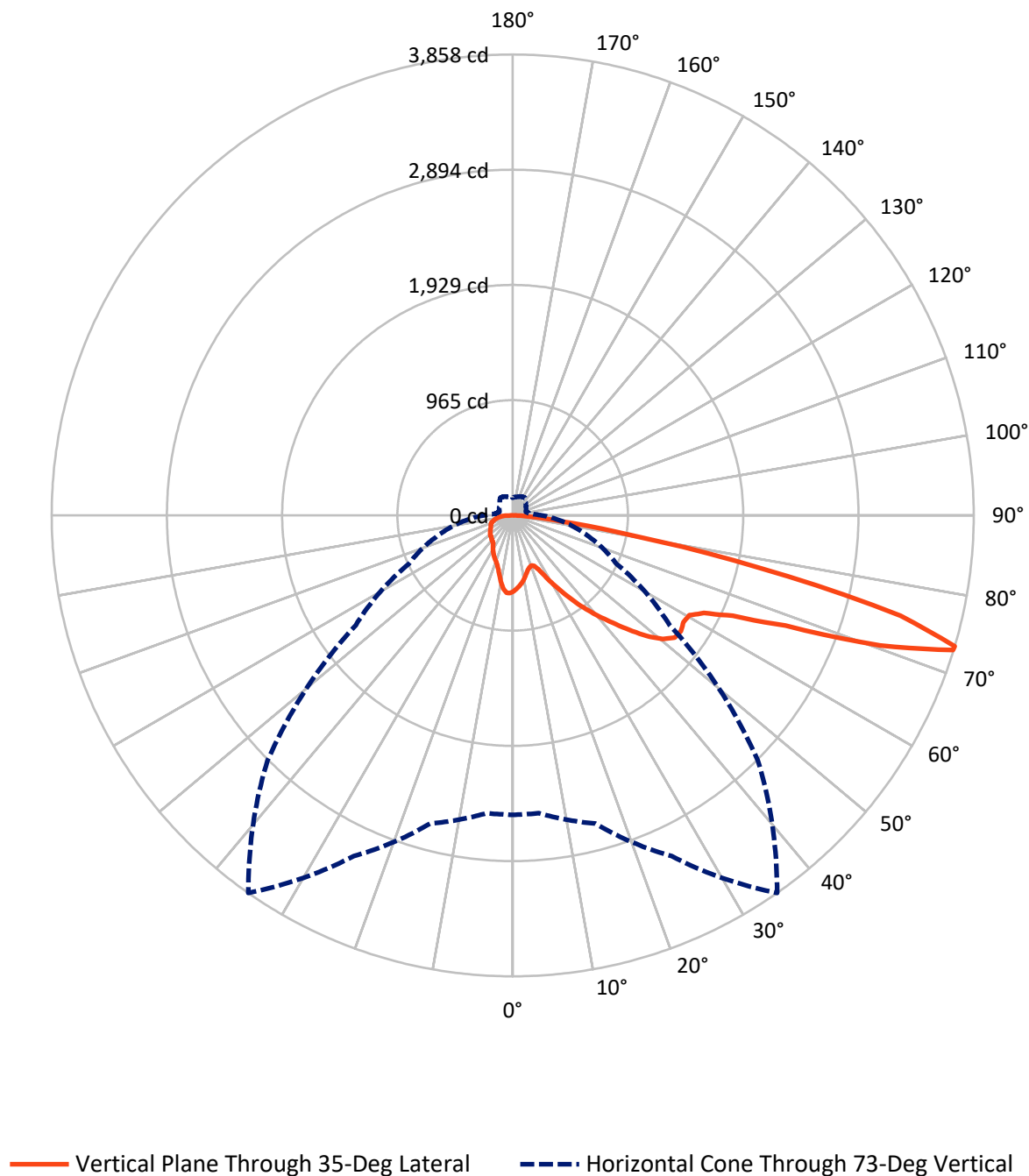


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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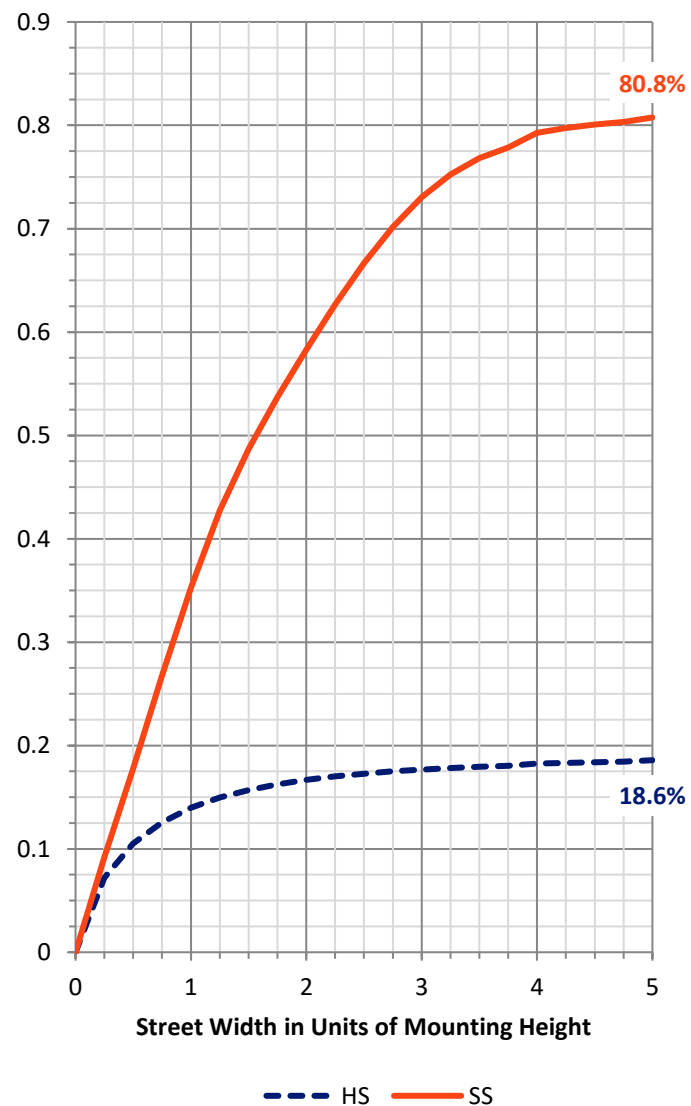
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.1	0.0	804.1
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	3411.9	0.0	3411.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	4216.0	0.0	4216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.4
10°-20°	143.8	3.4
20°-30°	232.4	5.5
30°-40°	389.8	9.2
40°-50°	600.8	14.3
50°-60°	806.0	19.1
60°-70°	1073.8	25.5
70°-80°	819.0	19.4
80°-90°	92.8	2.2
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°	4216.0	100.0
0°-180°	4216.0	100.0

Coefficient of Utilization



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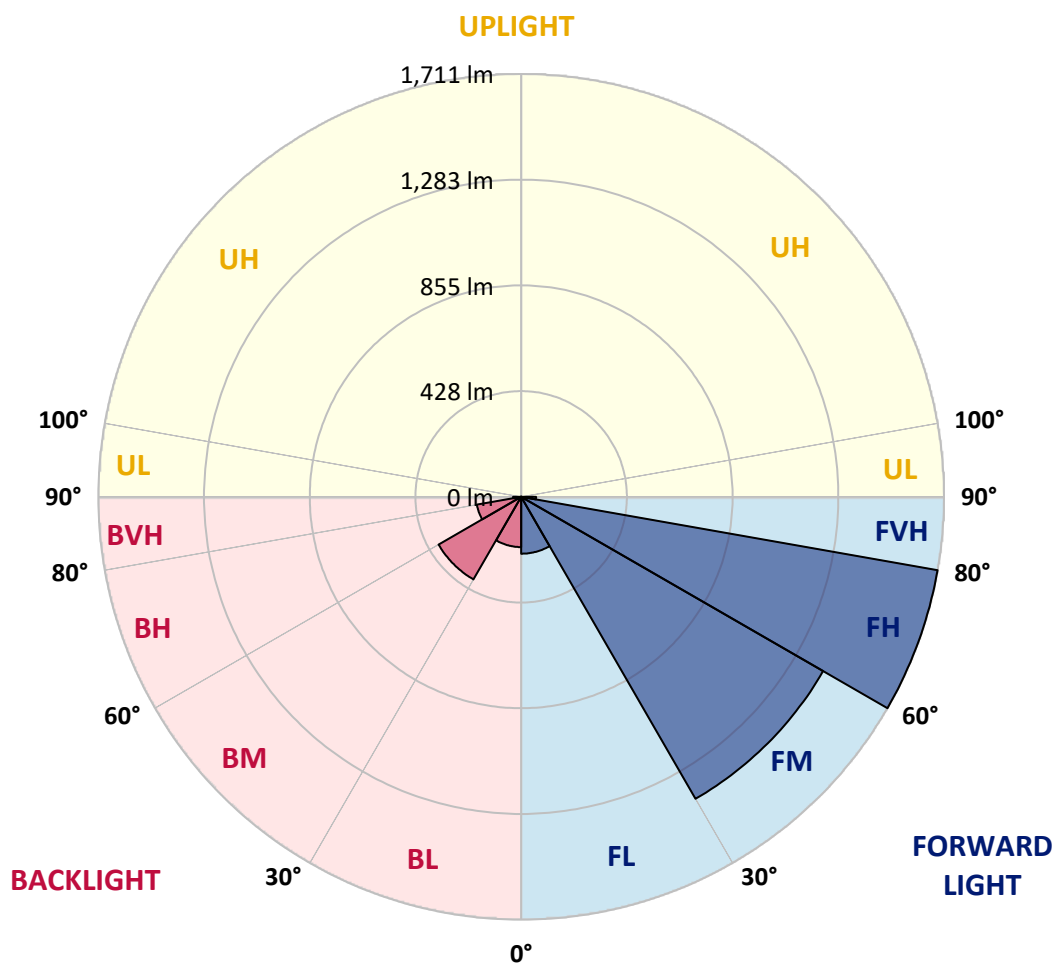
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.3	5.5			
FM	(30°-60°)	1410.7	33.5			
FH	(60°-80°)	1710.9	40.6			G1/1800
FVH	(80°-90°)	60.0	1.4			G1/100
BL	(0°-30°)	203.5	4.8	B1/500		
BM	(30°-60°)	385.9	9.2	B1/1000		
BH	(60°-80°)	181.9	4.3	B1/500		G1/500
BVH	(80°-90°)	32.8	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-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	611.2	612.4	611.0	612.8	615.9	619.1	621.3	624.6	628.2	633.3	634.5
5°	582.5	584.3	584.3	587.5	593.4	598.7	603.5	608.8	616.5	625.2	628.6
7.5°	550.9	551.9	553.7	558.6	567.1	574.6	581.5	590.0	600.5	612.0	618.1
10°	512.8	514.2	517.1	524.0	535.5	545.8	555.7	567.5	580.9	595.2	602.9
12.5°	485.9	485.5	486.7	491.8	501.9	514.4	528.8	543.8	560.2	577.0	586.3
15°	476.8	474.6	469.9	468.7	474.2	486.7	503.3	521.7	541.4	561.6	573.2
17.5°	482.5	478.6	465.9	456.5	455.7	465.2	482.9	503.5	526.2	550.9	565.3
20°	518.1	509.0	477.6	455.9	448.4	453.1	468.5	490.4	517.1	549.9	568.3
22.5°	603.3	590.0	523.4	483.1	457.8	452.1	463.6	486.9	518.1	562.4	585.9
25°	727.4	708.4	601.9	550.7	498.5	468.3	470.9	494.8	532.5	591.6	619.9
27.5°	825.4	813.1	704.6	646.0	572.6	512.0	494.6	514.6	561.8	639.4	668.3
30°	883.7	876.2	814.3	754.2	667.1	581.7	540.0	551.9	607.8	705.6	729.5
32.5°	951.3	946.9	916.5	861.3	769.1	673.2	611.8	607.6	669.3	785.1	796.1
35°	1021.4	1020.0	1002.2	962.5	878.7	793.8	707.2	678.4	736.3	867.7	860.9
37.5°	1086.6	1084.2	1073.8	1050.8	993.3	923.4	804.4	751.1	808.6	946.7	916.1
40°	1206.6	1187.6	1152.2	1134.8	1109.1	1032.5	881.5	818.9	883.5	1022.0	963.9
42.5°	1353.0	1322.1	1256.0	1232.2	1228.5	1118.6	934.1	884.7	959.0	1096.7	1010.9
45°	1468.2	1439.1	1382.2	1352.0	1365.4	1196.5	987.0	955.0	1036.8	1175.1	1059.3
47.5°	1591.1	1545.4	1470.0	1479.2	1508.3	1270.2	1040.8	1030.5	1122.0	1262.7	1119.4
50°	1595.6	1560.5	1527.5	1582.0	1627.4	1338.0	1108.3	1109.7	1226.3	1373.1	1199.4
52.5°	1503.0	1495.6	1548.0	1633.6	1699.0	1391.7	1185.0	1191.5	1359.7	1499.8	1287.2
55°	1470.7	1462.2	1522.7	1615.6	1708.7	1436.0	1268.2	1279.9	1521.1	1633.4	1372.9
57.5°	1549.6	1530.8	1534.8	1607.1	1685.1	1484.6	1358.9	1382.6	1696.4	1750.2	1427.9
60°	1770.3	1730.0	1653.5	1651.7	1697.8	1557.5	1463.8	1492.7	1878.6	1806.1	1406.5
62.5°	2079.9	2039.6	1896.2	1802.9	1796.0	1677.8	1592.5	1600.2	1983.9	1730.4	1275.5
65°	2414.9	2378.9	2218.7	2086.9	2023.4	1877.0	1742.2	1648.2	1949.5	1522.1	1046.3
67.5°	2821.7	2783.0	2645.3	2523.6	2462.5	2198.5	1847.2	1602.3	1731.0	1179.1	752.1
70°	3106.1	3066.6	3012.4	3111.0	3260.6	2662.3	1860.8	1415.4	1292.9	783.7	452.7
72.5°	2735.0	2716.6	2815.6	3230.8	3854.0	2943.7	1682.0	1030.5	750.9	416.1	262.0
73°	2505.8	2501.8	2670.6	3146.8	3858.2	2900.4	1603.7	957.8	644.0	368.1	239.5
75°	1131.5	1164.1	1534.2	2403.6	3352.1	2390.0	1128.7	549.5	363.8	254.3	180.8
77.5°	271.9	283.2	480.0	1141.5	2116.9	1424.3	511.4	271.7	232.6	179.6	132.0
80°	115.8	119.7	184.8	421.7	996.7	573.6	235.7	182.0	161.0	125.3	92.5
82.5°	64.4	68.4	104.9	191.3	402.3	195.6	143.7	126.7	105.9	75.5	60.1
85°	36.4	38.7	61.3	106.9	170.5	78.6	86.0	84.2	59.7	38.9	29.6
87.5°	17.2	18.6	29.6	49.6	66.8	30.8	43.7	48.2	37.5	23.7	15.4
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°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	635.9	639.6	643.8	646.0	648.1	650.5	652.9	652.9	653.3	653.5
5°	631.5	639.0	645.6	648.5	649.1	649.1	648.5	645.2	642.4	643.6
7.5°	622.2	633.1	638.8	637.7	630.0	621.1	613.7	604.5	599.9	599.1
10°	608.8	621.3	622.4	612.2	593.2	574.2	558.4	543.0	535.7	533.9
12.5°	594.0	605.6	599.1	578.2	547.6	519.9	499.9	484.3	477.4	475.6
15°	582.1	590.0	573.6	540.8	502.3	472.9	456.3	444.8	439.9	438.5
17.5°	575.8	577.4	547.4	503.1	462.2	437.7	427.4	421.9	420.1	419.1
20°	578.8	567.5	522.5	468.1	429.4	412.2	409.8	408.4	408.0	407.3
22.5°	594.0	564.5	499.7	434.9	400.7	393.2	395.2	395.0	394.6	394.2
25°	621.1	567.1	477.4	403.3	376.6	375.0	378.6	378.6	377.0	377.0
27.5°	657.0	572.6	452.5	373.3	354.7	354.9	357.7	356.9	355.1	353.9
30°	700.7	576.0	423.3	346.4	334.3	334.3	334.3	330.8	325.3	324.9
32.5°	745.5	571.7	389.5	322.5	312.6	310.8	310.2	305.3	299.0	297.2
35°	785.9	556.2	355.1	303.5	291.9	287.9	290.7	289.1	283.4	282.0
37.5°	815.5	527.2	324.1	286.7	277.2	276.2	278.0	278.6	271.9	270.5
40°	835.3	487.9	297.6	272.5	274.3	270.5	264.4	260.2	258.1	257.5
42.5°	851.3	447.0	275.3	265.8	274.9	263.8	250.6	243.8	247.4	249.0
45°	869.8	407.1	256.7	257.5	271.9	256.1	241.1	234.4	235.9	236.3
47.5°	895.1	358.6	236.7	244.2	261.8	250.8	235.3	225.7	219.1	216.0
50°	930.1	301.1	215.8	229.2	251.9	247.0	226.1	216.0	203.7	200.8
52.5°	954.4	247.4	198.6	216.6	242.9	239.3	218.9	205.7	192.7	190.3
55°	941.2	205.5	183.6	202.7	231.2	229.8	212.8	195.2	185.0	183.0
57.5°	875.4	179.0	172.1	189.5	216.8	221.7	204.7	186.3	179.0	177.6
60°	749.9	162.4	164.8	180.6	205.1	213.6	196.6	181.4	176.5	175.5
62.5°	581.9	151.2	159.3	174.1	196.0	207.9	192.1	180.8	179.0	177.8
65°	416.9	142.3	153.5	167.6	187.7	202.7	190.5	180.0	180.4	179.4
67.5°	283.2	134.4	146.4	160.3	179.6	198.0	188.3	177.2	182.2	181.0
70°	198.2	126.7	138.1	151.0	169.5	191.5	184.2	172.9	172.5	167.6
72.5°	154.7	116.6	126.7	138.1	156.5	182.4	176.1	163.4	156.7	151.6
73°	147.6	114.2	123.9	135.2	153.7	180.2	173.9	160.8	153.3	148.6
75°	122.1	103.7	112.6	122.7	141.5	169.7	163.0	148.8	139.3	136.5
77.5°	96.0	88.7	97.2	106.3	124.7	154.3	146.8	133.2	128.0	125.5
80°	71.1	73.5	81.0	89.1	108.1	137.9	131.2	117.6	141.1	135.2
82.5°	50.0	55.7	62.6	69.8	90.7	121.9	113.8	99.8	103.3	85.8
85°	29.6	36.4	42.9	49.2	65.4	101.0	93.9	79.6	65.2	62.2
87.5°	17.2	20.2	22.1	28.5	44.9	76.1	66.2	58.9	33.8	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)