

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: P821305

Luminaire Tested: **TT-D3-740-24VDC-WQ-UPL**

Issue Date: 7/23/2020



Test Information

Test Method: LM-79-08
Report Number: P821305
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-740-24VDC-WQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

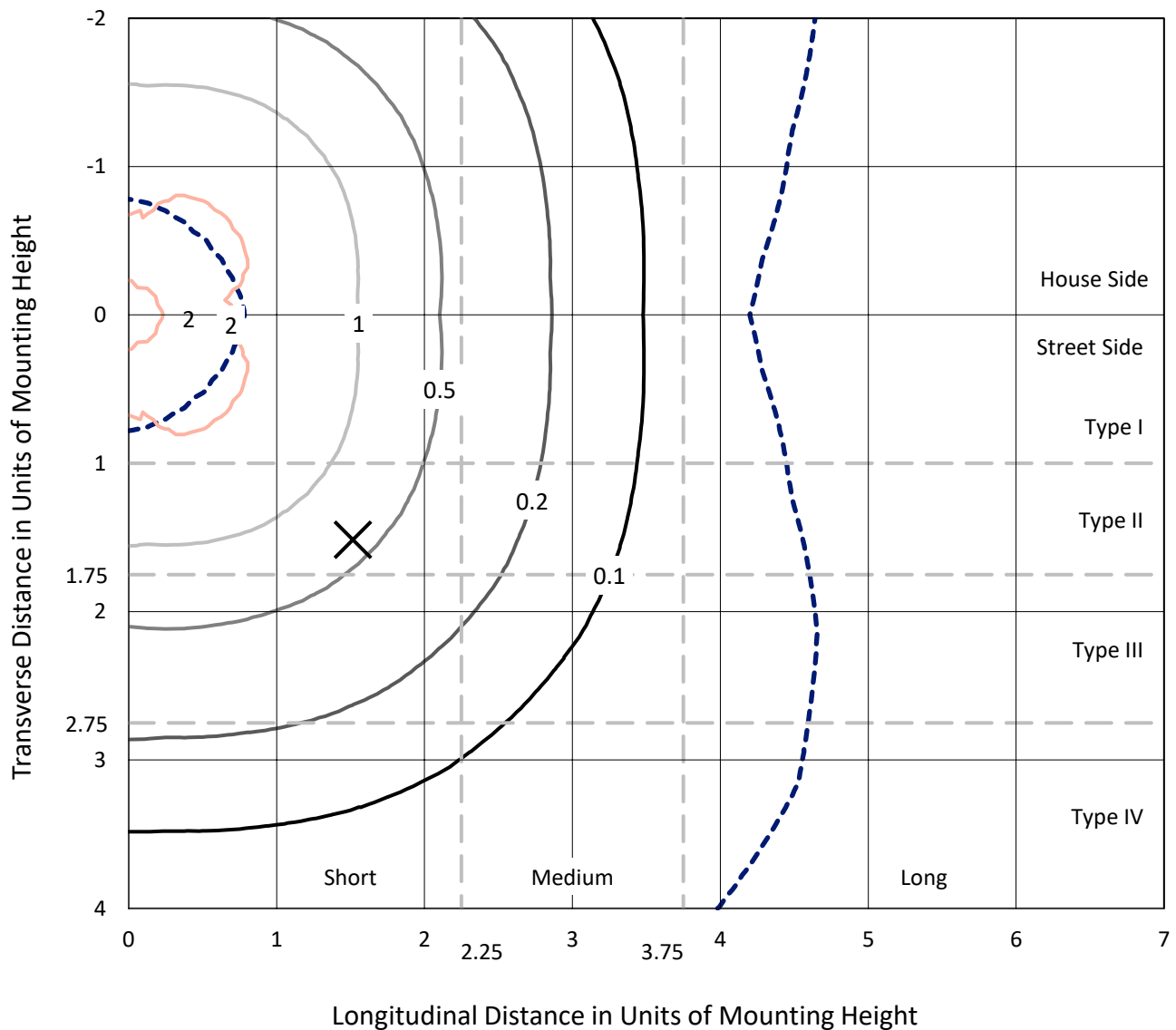
Lumens per Lamp: N/A
Luminaire Lumens: 7248.7 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

Input Watts (W): 46
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

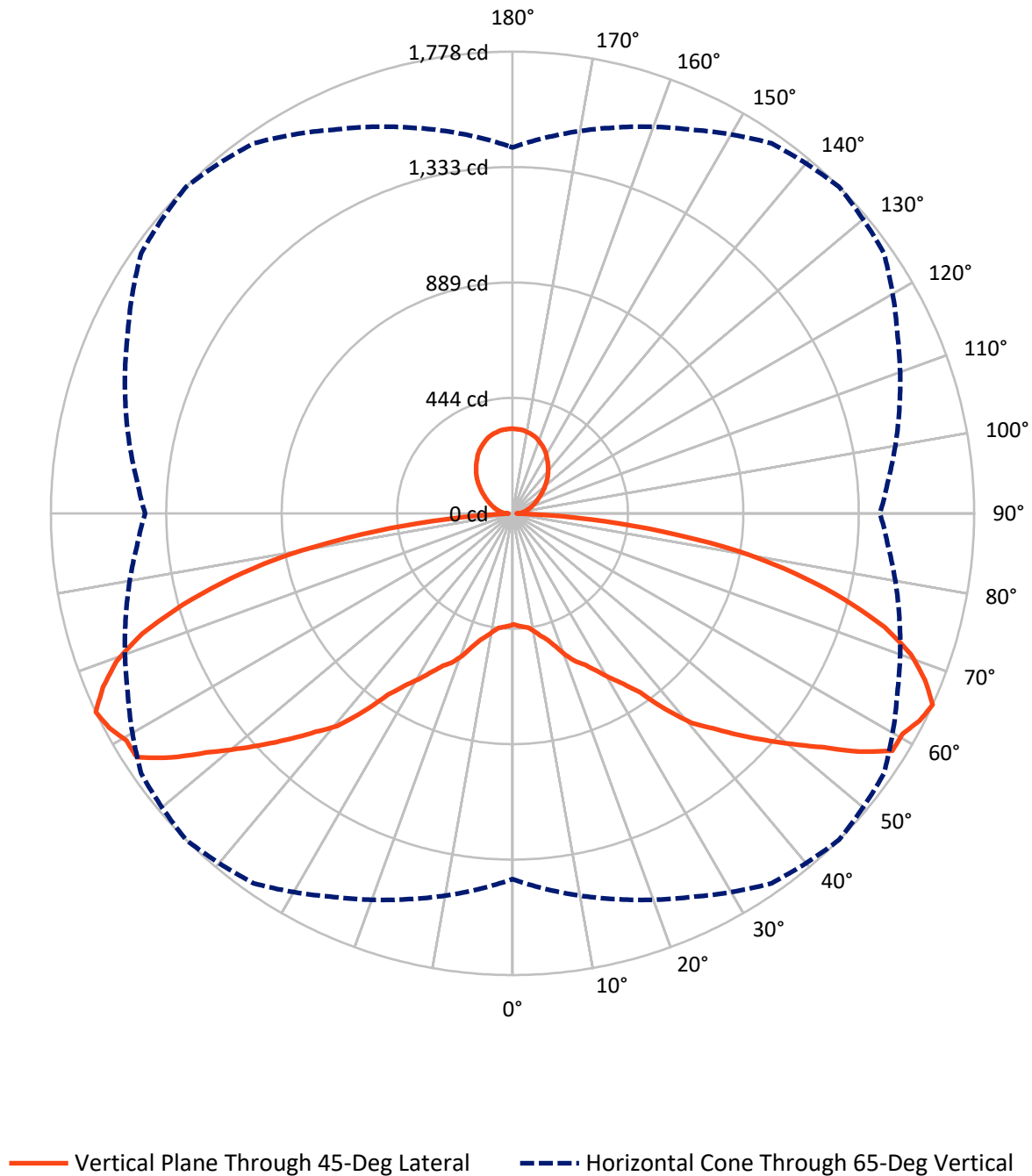
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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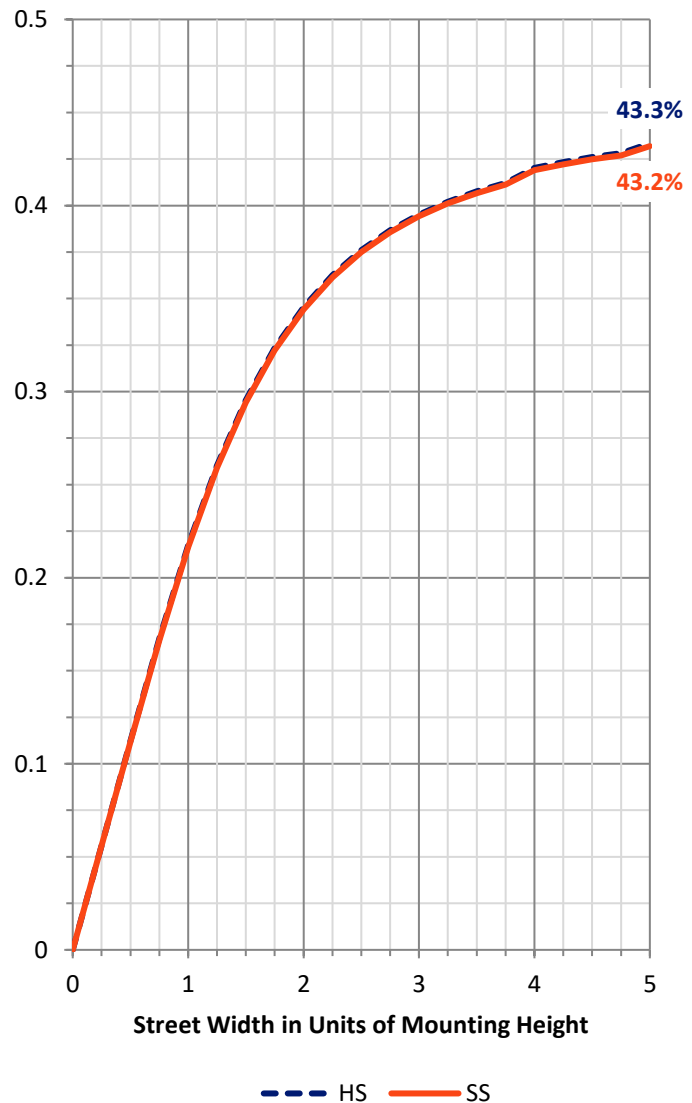
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.6	442.7	3624.4
	% Fixture	43.9	6.1	50.0
Street Side	Lumens	3181.6	442.7	3624.4
	% Fixture	43.9	6.1	50.0
Total	Lumens	6363.2	885.5	7248.7
	% Fixture	87.8	12.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	0.6
10°-20°	146.8	2.0
20°-30°	301.4	4.2
30°-40°	535.5	7.4
40°-50°	902.6	12.5
50°-60°	1331.5	18.4
60°-70°	1562.7	21.6
70°-80°	1217.5	16.8
80°-90°	322.6	4.4
90°-100°	45.4	0.6
100°-110°	70.3	1.0
110°-120°	97.7	1.3
120°-130°	126.6	1.7
130°-140°	147.6	2.0
140°-150°	149.5	2.1
150°-160°	129.8	1.8
160°-170°	87.7	1.2
170°-180°	30.8	0.4
0°-90°	6363.2	87.8
0°-180°	7248.7	100.0



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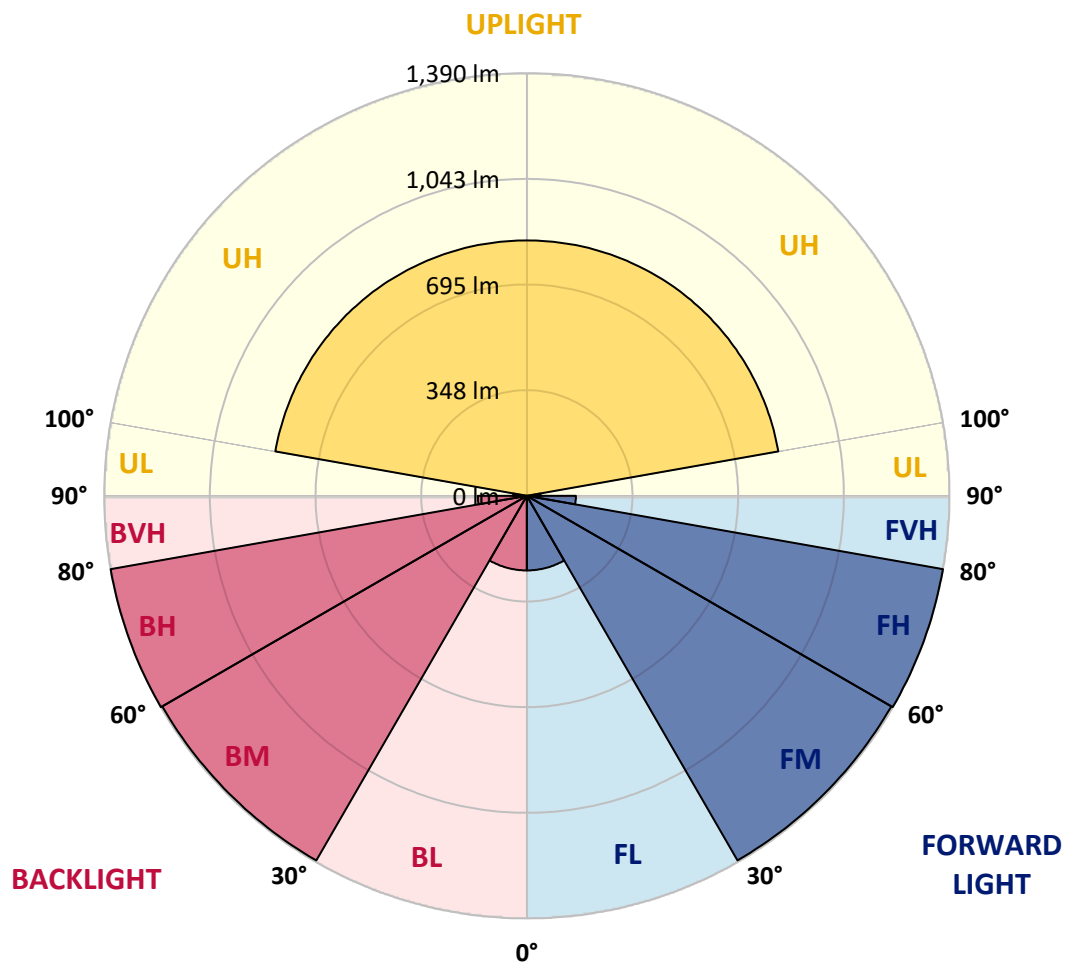
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	245.4	3.4			
FM	(30°-60°)	1384.8	19.1			
FH	(60°-80°)	1390.1	19.2			G1/1800
FVH	(80°-90°)	161.3	2.2			G2/225
BL	(0°-30°)	245.4	3.4	B1/500		
BM	(30°-60°)	1384.8	19.1	B2/2500		
BH	(60°-80°)	1390.1	19.2	B3/2500		G1/1800
BVH	(80°-90°)	161.3	2.2			G2/225
UL	(90°-100°)	45.4	0.6		U2/50	
UH	(100°-180°)	840.1	11.6		U4/1000	

BUG Rating: B3-U4-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0	428.0
2.5°	435.0	435.0	435.0	434.0	434.0	434.0	434.0	435.0	435.0	435.0	435.0
5°	445.0	445.0	443.0	441.0	439.0	439.0	440.0	441.0	442.0	444.0	444.0
7.5°	451.0	451.0	450.0	448.0	445.0	445.0	446.0	448.0	449.0	449.0	448.0
10°	459.0	460.0	463.0	464.0	462.0	462.0	463.0	464.0	462.0	459.0	459.0
12.5°	478.0	479.0	483.0	486.0	486.0	484.0	485.0	487.0	482.0	477.0	478.0
15°	505.0	505.0	506.0	509.0	507.0	505.0	507.0	508.0	505.0	504.0	506.0
17.5°	541.0	541.0	535.0	540.0	541.0	540.0	542.0	537.0	534.0	538.0	540.0
20°	580.0	576.0	573.0	577.0	585.0	582.0	586.0	575.0	572.0	574.0	575.0
22.5°	605.0	608.0	610.0	612.0	623.0	619.0	623.0	611.0	609.0	605.0	602.0
25°	635.0	638.0	650.0	644.0	651.0	645.0	650.0	643.0	647.0	635.0	635.0
27.5°	669.0	675.0	682.0	679.0	688.0	685.0	688.0	678.0	679.0	674.0	672.0
30°	715.0	715.0	713.0	719.0	735.0	733.0	734.0	721.0	712.0	713.0	717.0
32.5°	761.0	755.0	758.0	776.0	786.0	782.0	784.0	778.0	758.0	754.0	757.0
35°	804.0	813.0	820.0	835.0	849.0	847.0	846.0	836.0	823.0	807.0	802.0
37.5°	871.0	881.0	900.0	927.0	952.0	957.0	944.0	931.0	901.0	878.0	866.0
40°	959.0	960.0	982.0	1034.0	1057.0	1061.0	1054.0	1032.0	986.0	960.0	959.0
42.5°	1036.0	1029.0	1065.0	1108.9	1129.9	1131.9	1126.9	1108.9	1065.0	1028.0	1035.0
45°	1096.0	1096.0	1138.9	1173.9	1207.9	1215.9	1206.9	1168.9	1139.9	1096.9	1094.0
47.5°	1150.9	1165.9	1201.9	1244.9	1292.9	1303.9	1292.9	1247.9	1198.9	1166.9	1149.9
50°	1216.9	1234.9	1260.9	1327.9	1381.9	1396.9	1380.9	1331.9	1260.9	1233.9	1223.9
52.5°	1293.9	1308.9	1349.9	1433.9	1473.9	1495.9	1482.9	1435.9	1351.9	1310.9	1302.9
55°	1385.9	1371.9	1435.9	1516.9	1590.9	1619.9	1593.9	1518.9	1445.9	1371.9	1385.9
57.5°	1432.9	1416.9	1506.9	1583.9	1686.9	1724.9	1692.9	1589.9	1506.9	1421.9	1431.9
60°	1436.9	1443.9	1511.9	1637.9	1708.9	1724.9	1714.9	1646.9	1514.9	1449.9	1430.9
62.5°	1424.9	1467.9	1525.9	1655.9	1719.9	1758.9	1724.9	1657.9	1531.9	1474.9	1425.9
65°	1408.9	1451.9	1537.9	1629.9	1738.9	1777.9	1745.9	1634.9	1541.9	1451.9	1414.9
67.5°	1380.9	1365.9	1471.9	1594.9	1689.9	1712.9	1692.9	1596.9	1470.9	1363.9	1383.9
70°	1291.9	1278.9	1369.9	1504.9	1595.9	1627.9	1603.9	1506.9	1371.9	1281.9	1293.9
72.5°	1159.9	1163.9	1251.9	1380.9	1478.9	1498.9	1485.9	1379.9	1256.9	1168.9	1152.9
75°	1006.0	1016.0	1099.9	1216.9	1305.9	1317.9	1304.9	1221.9	1098.9	1022.0	1001.0
77.5°	827.0	842.0	910.0	1027.0	1086.0	1112.9	1092.0	1030.0	915.0	846.0	825.0
80°	641.0	646.0	694.0	788.0	866.0	884.0	864.0	791.0	700.0	648.0	633.0
82.5°	420.0	428.0	471.0	543.0	594.0	589.0	594.0	537.0	476.0	426.0	401.0
85°	187.0	203.0	232.0	266.0	299.0	308.0	299.0	270.0	232.0	199.0	195.0
87.5°	13.0	15.0	18.0	19.0	21.0	16.0	16.0	16.0	14.0	16.0	13.0
90°	32.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
92.5°	37.0	37.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
95°	42.0	42.0	42.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
97.5°	48.0	48.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
100°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
102.5°	60.0	59.0	60.0	60.0	59.0	59.0	59.0	60.0	60.0	60.0	59.0
105°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	67.0	66.0	66.0	66.0
107.5°	73.0	73.0	73.0	74.0	74.0	74.0	74.0	74.0	73.0	74.0	73.0
110°	80.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.0	89.0	89.0	89.0	89.0	90.0	90.0	90.0	90.0	90.0	89.0
115°	97.0	97.0	98.0	98.0	98.0	98.0	99.0	99.0	98.0	98.0	98.0
117.5°	107.0	107.0	107.0	107.0	107.0	108.0	108.0	108.0	108.0	108.0	107.0
120°	117.0	117.0	117.0	118.0	118.0	118.0	119.0	119.0	118.0	118.0	118.0
122.5°	129.0	128.0	129.0	129.0	129.0	129.0	130.0	130.0	130.0	130.0	129.0
125°	140.0	140.0	141.0	141.0	141.0	141.0	142.0	142.0	142.0	142.0	141.0
127.5°	153.0	153.0	153.0	153.0	153.0	154.0	154.0	154.0	154.0	154.0	154.0
130°	165.0	165.0	166.0	166.0	166.0	166.0	167.0	167.0	167.0	167.0	166.0
132.5°	179.0	178.0	179.0	178.0	178.0	179.0	179.0	180.0	179.0	180.0	179.0
135°	191.0	191.0	191.0	191.0	191.0	192.0	192.0	192.0	192.0	192.0	192.0
137.5°	204.0	203.0	204.0	203.0	203.0	204.0	204.0	204.0	204.0	204.0	204.0
140°	216.0	215.0	216.0	215.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
142.5°	228.0	227.0	228.0	227.0	227.0	228.0	228.0	228.0	228.0	228.0	228.0
145°	239.0	239.0	239.0	238.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
147.5°	250.0	249.0	250.0	249.0	249.0	250.0	250.0	250.0	250.0	250.0	250.0
150°	263.0	262.0	263.0	262.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
152.5°	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0
155°	282.0	282.0	283.0	282.0	282.0	282.0	283.0	282.0	282.0	282.0	282.0
157.5°	290.0	290.0	290.0	290.0	290.0	290.0	291.0	291.0	290.0	291.0	290.0
160°	298.0	298.0	299.0	298.0	298.0	298.0	299.0	298.0	298.0	298.0	298.0
162.5°	306.0	305.0	306.0	305.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
165°	311.0	311.0	312.0	311.0	311.0	311.0	312.0	311.0	311.0	311.0	311.0
167.5°	316.0	315.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
170°	319.0	319.0	320.0	319.0	319.0	319.0	320.0	319.0	319.0	319.0	319.0
172.5°	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
175°	324.0	324.0	325.0	324.0	325.0	324.0	325.0	324.0	324.0	324.0	324.0
177.5°	325.0	325.0	326.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
180°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0

(END OF REPORT)