

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: P198366

Luminaire Tested: **TT-C3-LED-E1-CQ-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198366
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
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-CQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
CONCENTRATED DISTRIBUTION
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7182.4 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G1

Input Watts (W): 62.4
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

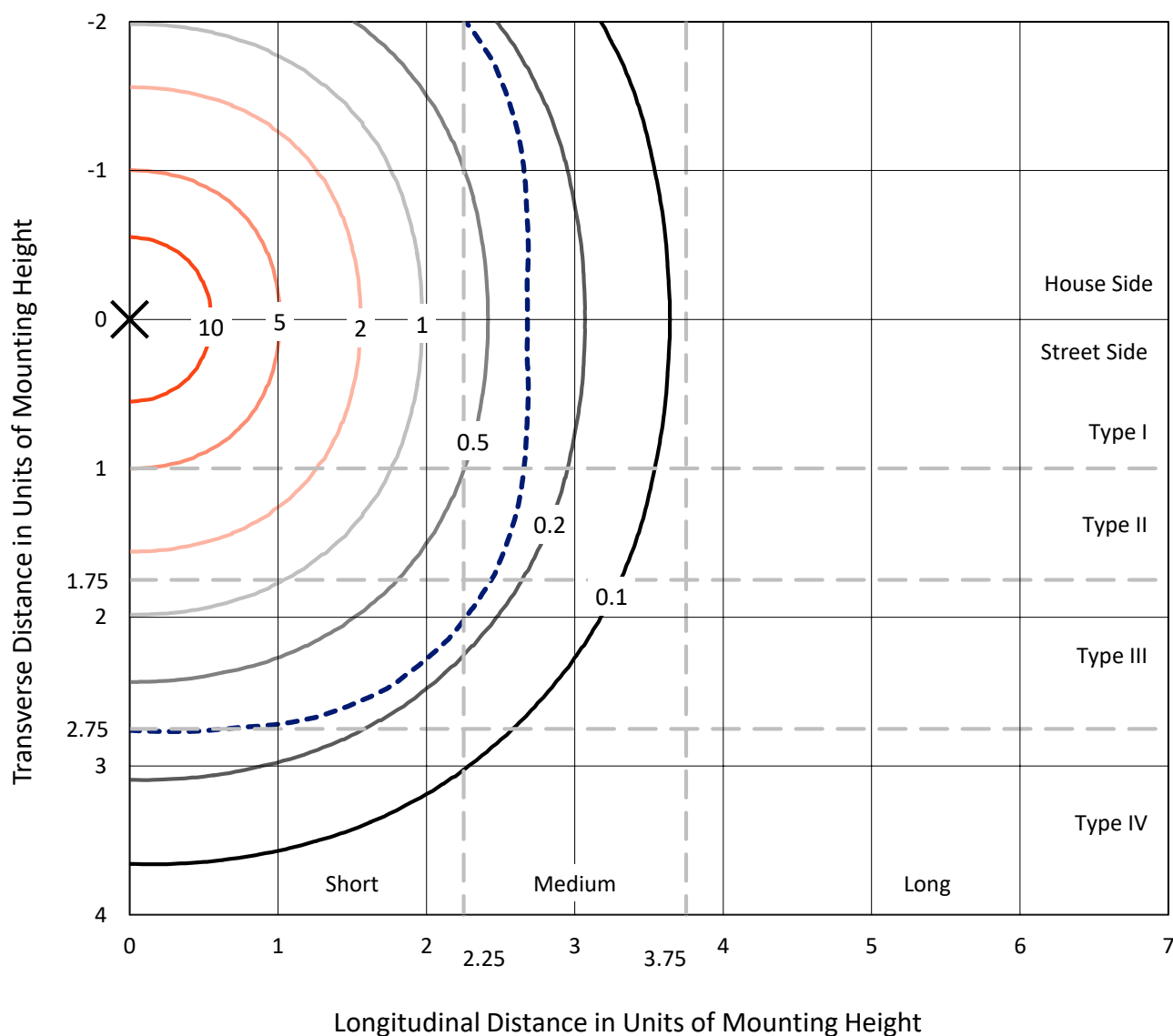


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

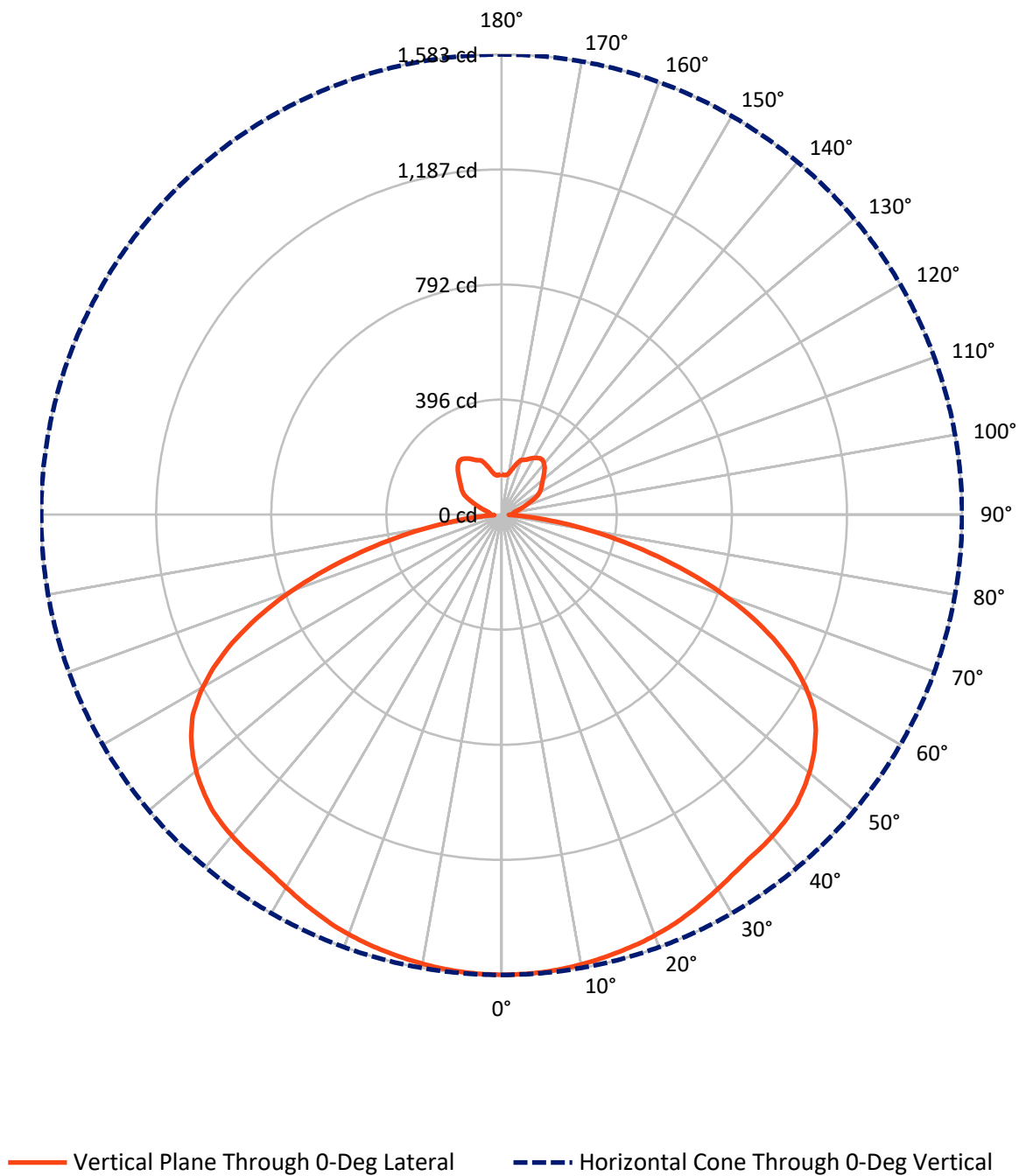


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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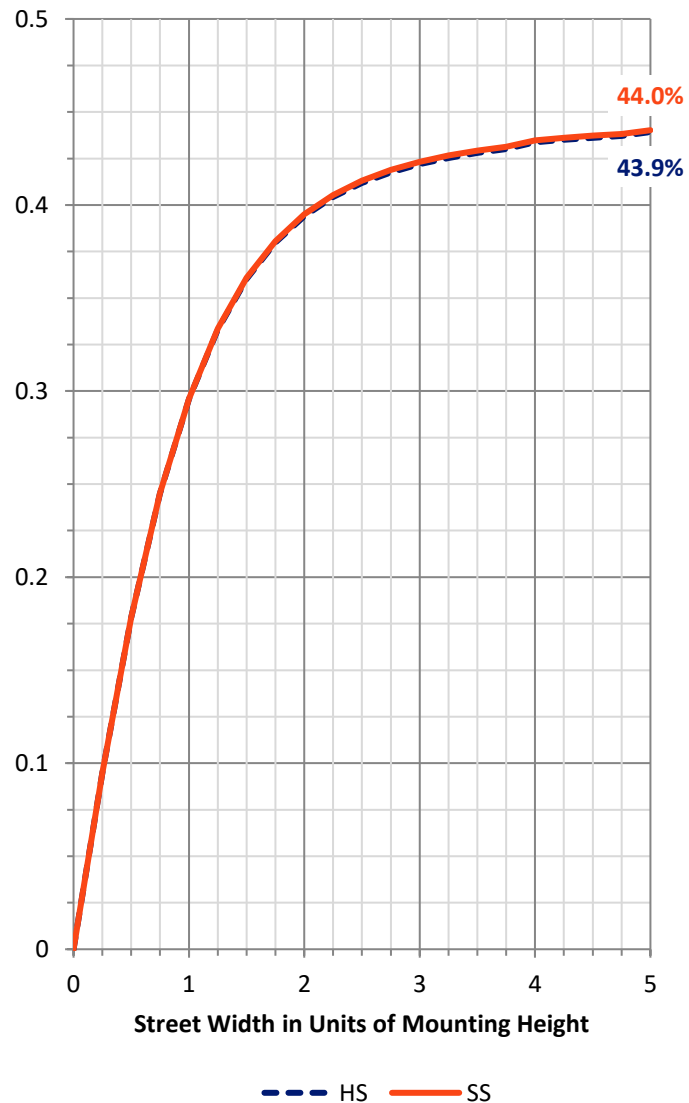
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3178.5	412.7	3591.2
	% Fixture	44.3	5.7	50.0
Street Side	Lumens	3178.5	412.7	3591.2
	% Fixture	44.3	5.7	50.0
Total	Lumens	6357.1	825.3	7182.4
	% Fixture	88.5	11.5	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	2.1
10°-20°	440.6	6.1
20°-30°	700.9	9.8
30°-40°	927.0	12.9
40°-50°	1131.1	15.7
50°-60°	1221.6	17.0
60°-70°	1057.9	14.7
70°-80°	599.8	8.4
80°-90°	127.8	1.8
90°-100°	38.4	0.5
100°-110°	59.5	0.8
110°-120°	119.6	1.7
120°-130°	148.9	2.1
130°-140°	153.3	2.1
140°-150°	136.3	1.9
150°-160°	103.9	1.4
160°-170°	51.8	0.7
170°-180°	13.6	0.2
0°-90°	6357.1	88.5
0°-180°	7182.4	100.0

Coefficient of Utilization



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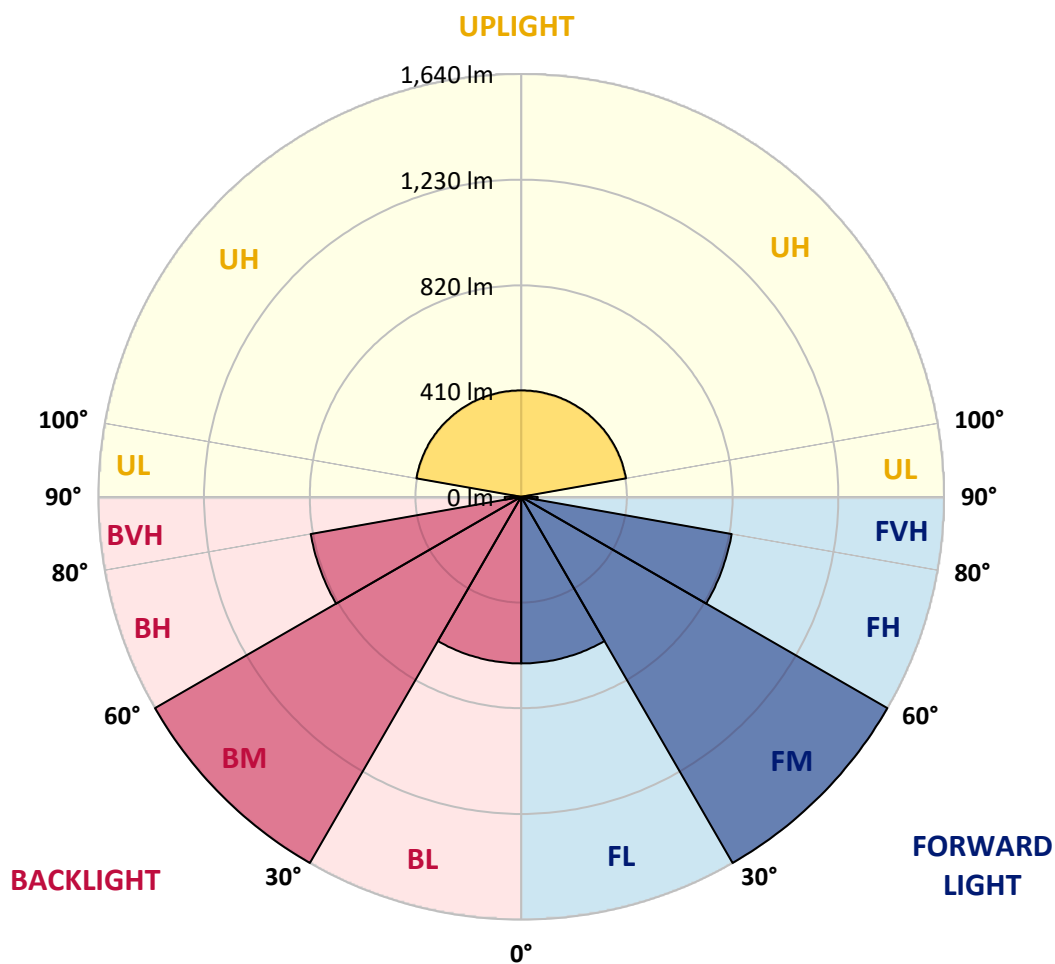
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.0	9.0			
FM	(30°-60°)	1639.8	22.8			
FH	(60°-80°)	828.8	11.5			G1/1800
FVH	(80°-90°)	63.9	0.9			G1/100
BL	(0°-30°)	646.0	9.0	B2/1000		
BM	(30°-60°)	1639.8	22.8	B2/2500		
BH	(60°-80°)	828.8	11.5	B2/1000		G1/1800
BVH	(80°-90°)	63.9	0.9			G1/100
UL	(90°-100°)	38.4	0.5		U2/50	
UH	(100°-180°)	412.7	5.7		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2	1583.2
2.5°	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1	1582.1
5°	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9	1579.9
7.5°	1575.5	1575.5	1575.5	1575.5	1575.5	1576.6	1575.5	1575.5	1575.5	1575.5	1576.6
10°	1570.0	1570.0	1571.1	1571.1	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0	1570.0
12.5°	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1563.5	1562.4	1562.4	1562.4
15°	1555.8	1555.8	1555.8	1556.9	1556.9	1556.9	1556.9	1555.8	1554.7	1553.6	1554.7
17.5°	1548.2	1548.2	1549.3	1550.4	1550.4	1550.4	1550.4	1548.2	1547.1	1546.0	1546.0
20°	1538.3	1539.4	1539.4	1540.5	1541.6	1541.6	1541.6	1540.5	1538.3	1536.2	1536.2
22.5°	1527.4	1528.5	1529.6	1530.7	1531.8	1530.7	1530.7	1529.6	1527.4	1526.3	1525.2
25°	1513.2	1513.2	1515.4	1517.6	1518.7	1518.7	1518.7	1516.5	1514.3	1513.2	1512.1
27.5°	1499.0	1499.0	1501.2	1504.4	1505.5	1506.6	1504.4	1503.4	1500.1	1497.9	1497.9
30°	1483.7	1483.7	1487.0	1491.3	1494.6	1495.7	1494.6	1490.2	1485.9	1483.7	1483.7
32.5°	1469.5	1470.6	1473.8	1480.4	1485.9	1488.0	1487.0	1481.5	1476.0	1471.6	1470.6
35°	1458.5	1459.6	1466.2	1473.8	1482.6	1485.9	1482.6	1477.1	1468.4	1461.8	1461.8
37.5°	1452.0	1452.0	1460.7	1473.8	1483.7	1488.0	1483.7	1476.0	1464.0	1455.2	1455.2
40°	1444.3	1446.5	1457.4	1473.8	1488.0	1494.6	1489.1	1478.2	1462.9	1452.0	1450.9
42.5°	1434.5	1437.8	1449.8	1471.6	1489.1	1499.0	1493.5	1480.4	1461.8	1449.8	1448.7
45°	1421.4	1422.4	1437.8	1464.0	1487.0	1500.1	1495.7	1479.3	1458.5	1444.3	1442.1
47.5°	1400.6	1402.8	1421.4	1452.0	1480.4	1494.6	1491.3	1472.7	1446.5	1430.1	1426.8
50°	1376.5	1378.7	1400.6	1435.6	1467.3	1483.7	1478.2	1455.2	1426.8	1404.9	1402.8
52.5°	1347.0	1351.4	1375.4	1414.8	1448.7	1464.0	1455.2	1425.7	1392.9	1368.9	1366.7
55°	1310.9	1315.3	1342.6	1384.2	1418.1	1430.1	1418.1	1383.1	1348.1	1320.8	1315.3
57.5°	1266.1	1269.4	1295.6	1339.3	1372.1	1382.0	1366.7	1330.6	1289.1	1259.5	1256.3
60°	1200.5	1204.9	1235.5	1275.9	1308.7	1320.8	1305.5	1261.7	1216.9	1187.4	1186.3
62.5°	1121.8	1129.4	1155.7	1199.4	1228.9	1245.3	1224.5	1179.7	1134.9	1101.0	1101.0
65°	1026.7	1032.1	1060.5	1103.2	1131.6	1145.8	1125.1	1083.5	1034.3	1004.8	1001.5
67.5°	917.3	921.7	946.8	990.6	1021.2	1033.2	1010.3	970.9	925.0	893.3	890.0
70°	796.0	802.5	821.1	861.6	888.9	895.5	878.0	840.8	799.2	770.8	768.6
72.5°	663.7	669.1	693.2	724.9	746.8	748.9	738.0	710.7	668.0	645.1	641.8
75°	528.1	536.8	557.6	584.9	601.3	601.3	594.8	575.1	537.9	520.4	520.4
77.5°	400.2	404.5	426.4	445.0	458.1	464.7	457.0	439.5	410.0	398.0	391.4
80°	278.8	283.2	293.0	307.2	320.4	324.7	316.0	301.8	285.4	276.6	272.2
82.5°	170.6	174.9	180.4	188.1	196.8	201.2	195.7	187.0	172.7	171.7	170.6
85°	82.0	84.2	88.6	90.7	95.1	96.2	97.3	92.9	88.6	83.1	85.3
87.5°	25.1	25.1	26.2	27.3	29.5	29.5	29.5	28.4	26.2	25.1	25.1
90°	36.0	36.0	36.0	34.0	29.0	26.0	28.0	32.0	34.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	28.0	32.0	35.0	36.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	34.0	37.0	39.0	38.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	33.0	34.0	36.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	38.0	38.0	37.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	43.0	44.0	42.0	41.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	54.0	53.0	49.0	48.0	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.0	217.0	209.0	195.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	220.0	223.0	211.0	198.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	230.0	227.0	211.0	201.0	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	196.0	200.0	204.0	207.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.0	181.0	185.0	190.0	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.0	140.0	140.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)