

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: P821373

Luminaire Tested: **TT-D3-750-24VDC-MQ-UPL**

Issue Date: 7/23/2020

Test Information

Test Method: LM-79-08
Report Number: P821373
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-3) AND
Test Lab: INNOVATION CENTER
Issue Date: 7/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-750-24VDC-MQ-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
5000K, 70 CRI LEDS AND MEDIUM DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7627.3 lumens
Efficiency: N/A
Efficacy: 165.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short
BUG Rating: B3 - U4 - G2

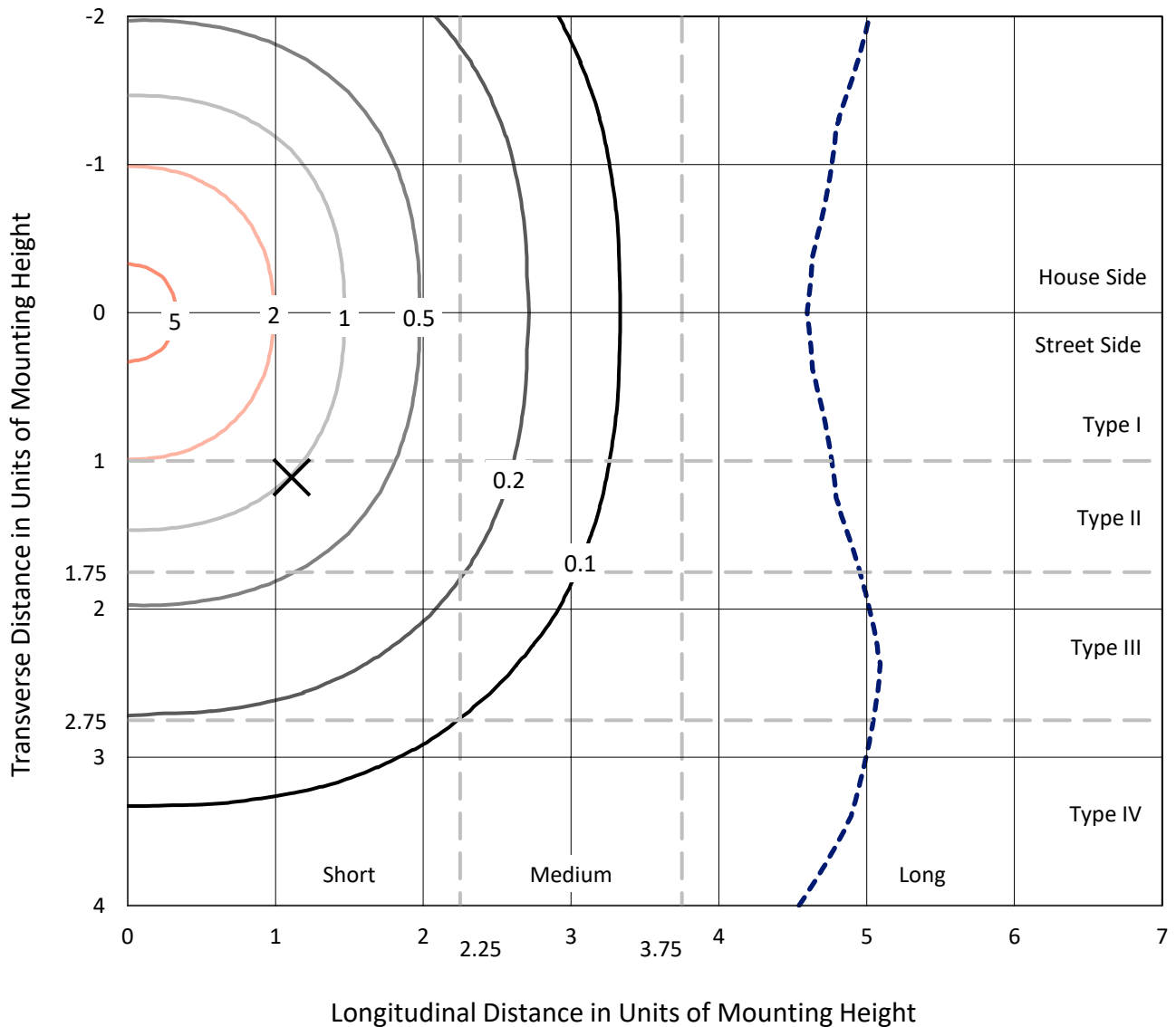
Input Watts (W): 46
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

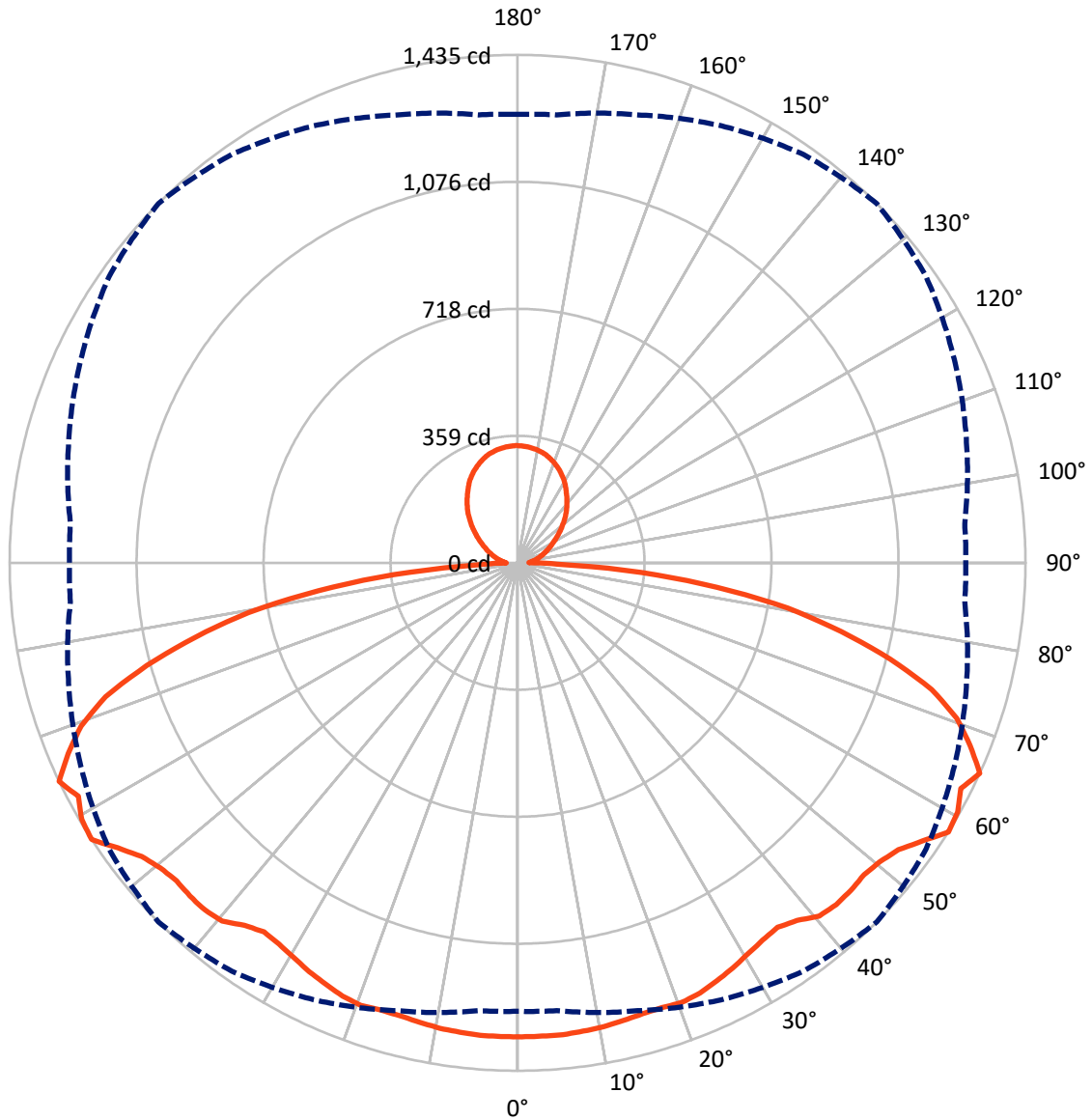
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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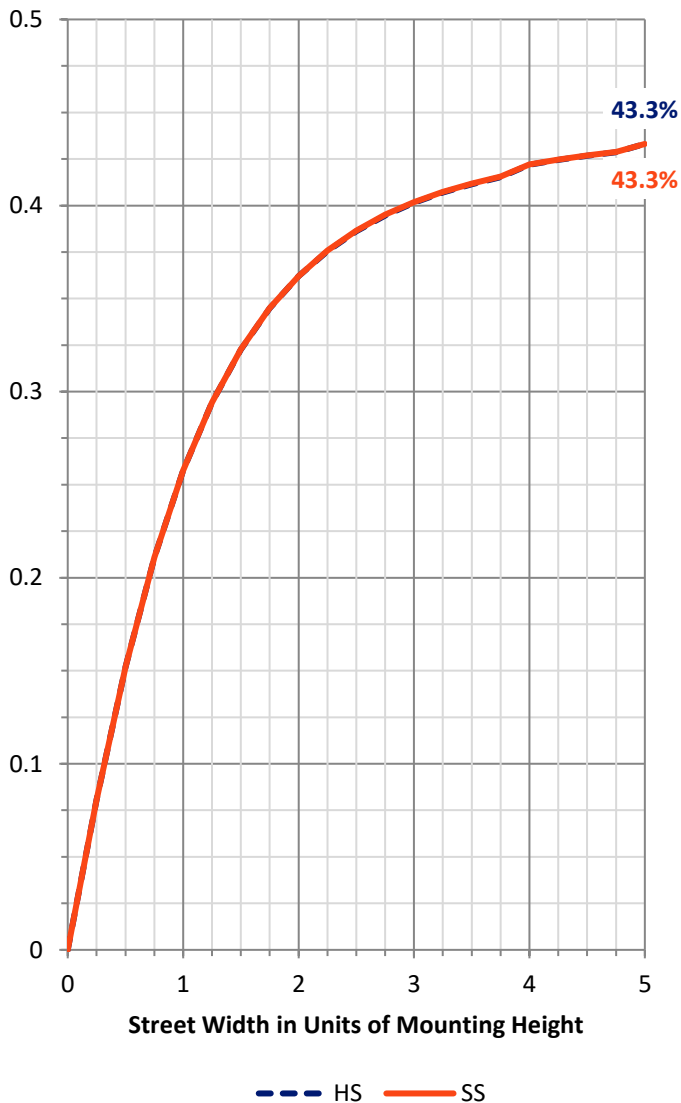
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.6	450.0	3813.6
	% Fixture	44.1	5.9	50.0
Street Side	Lumens	3363.6	450.0	3813.6
	% Fixture	44.1	5.9	50.0
Total	Lumens	6727.3	900.0	7627.3
	% Fixture	88.2	11.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.7
10°-20°	375.3	4.9
20°-30°	603.0	7.9
30°-40°	796.1	10.4
40°-50°	996.0	13.1
50°-60°	1184.7	15.5
60°-70°	1284.9	16.8
70°-80°	1022.8	13.4
80°-90°	336.8	4.4
90°-100°	46.1	0.6
100°-110°	71.4	0.9
110°-120°	99.4	1.3
120°-130°	128.8	1.7
130°-140°	150.0	2.0
140°-150°	152.1	2.0
150°-160°	131.9	1.7
160°-170°	89.0	1.2
170°-180°	31.3	0.4
0°-90°	6727.3	88.2
0°-180°	7627.3	100.0

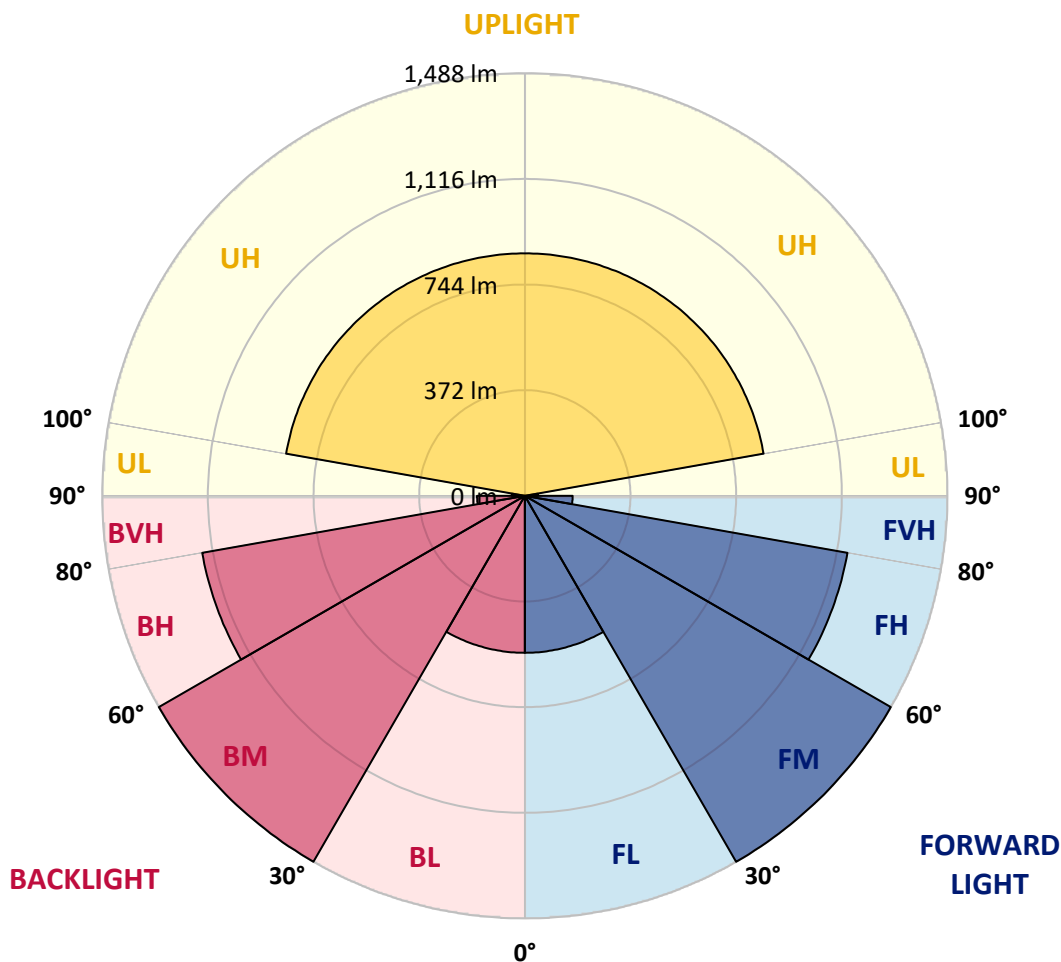


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.0	7.2			
FM (30°-60°)	1488.4	19.5			
FH (60°-80°)	1153.8	15.1			G1/1800
FVH (80°-90°)	168.4	2.2			G2/225
BL (0°-30°)	553.0	7.2	B2/1000		
BM (30°-60°)	1488.4	19.5	B2/2500		
BH (60°-80°)	1153.8	15.1	B3/2500		G1/1800
BVH (80°-90°)	168.4	2.2			G2/225
UL (90°-100°)	46.1	0.6		U2/50	
UH (100°-180°)	853.9	11.2		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°	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0
2.5°	1341.0	1340.0	1341.0	1340.0	1340.0	1339.0	1340.0	1340.0	1340.0	1340.0	1340.0
5°	1340.0	1339.0	1339.0	1340.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0
7.5°	1336.0	1336.0	1337.0	1336.0	1336.0	1336.0	1336.0	1336.0	1336.0	1337.0	1337.0
10°	1333.0	1332.0	1333.0	1333.0	1332.0	1333.0	1332.0	1333.0	1333.0	1333.0	1333.0
12.5°	1329.0	1328.0	1329.0	1329.0	1328.0	1327.0	1328.0	1328.0	1329.0	1329.0	1329.0
15°	1322.0	1322.0	1324.0	1323.0	1323.0	1322.0	1324.0	1323.0	1322.0	1323.0	1323.0
17.5°	1317.0	1317.0	1319.0	1321.0	1321.0	1321.0	1321.0	1320.0	1318.0	1319.0	1317.0
20°	1318.0	1319.0	1320.0	1323.0	1325.0	1326.0	1326.0	1323.0	1320.0	1321.0	1320.0
22.5°	1315.0	1314.0	1315.0	1317.0	1320.0	1320.0	1320.0	1316.0	1315.0	1314.0	1314.0
25°	1303.0	1303.0	1305.0	1307.0	1309.0	1308.0	1309.0	1307.0	1305.0	1303.0	1303.0
27.5°	1289.0	1289.0	1292.0	1294.0	1296.0	1296.0	1295.0	1293.0	1292.0	1290.0	1289.0
30°	1275.0	1275.0	1278.0	1280.0	1283.0	1282.0	1282.0	1279.0	1276.0	1274.0	1274.0
32.5°	1260.0	1259.0	1262.0	1267.0	1271.0	1271.0	1271.0	1265.0	1261.0	1259.0	1258.0
35°	1247.0	1247.0	1251.0	1260.0	1265.0	1265.0	1263.0	1259.0	1250.0	1247.0	1247.0
37.5°	1243.0	1246.0	1257.0	1270.0	1280.0	1282.0	1279.0	1268.0	1256.0	1247.0	1244.0
40°	1256.0	1259.0	1273.0	1294.0	1309.0	1312.0	1309.0	1293.0	1272.0	1258.0	1257.0
42.5°	1258.0	1260.0	1277.0	1301.0	1315.0	1320.0	1315.0	1299.0	1276.0	1259.0	1258.0
45°	1251.0	1252.0	1272.0	1297.0	1314.0	1320.0	1314.0	1295.0	1271.0	1252.0	1251.0
47.5°	1242.0	1244.0	1266.0	1292.0	1313.0	1317.0	1312.0	1291.0	1264.0	1245.0	1242.0
50°	1235.0	1241.0	1261.0	1290.0	1315.0	1327.0	1315.0	1287.0	1260.0	1239.0	1235.0
52.5°	1239.0	1241.0	1267.0	1308.0	1342.0	1347.0	1341.0	1308.0	1265.0	1241.0	1238.0
55°	1251.0	1260.0	1288.0	1347.0	1378.0	1387.0	1374.0	1345.0	1289.0	1260.0	1251.0
57.5°	1267.0	1270.0	1310.0	1362.0	1408.0	1435.0	1409.0	1361.0	1313.0	1268.0	1266.0
60°	1254.0	1245.0	1295.0	1356.0	1418.0	1429.0	1414.0	1357.0	1293.0	1244.0	1253.0
62.5°	1219.0	1225.0	1266.0	1350.0	1393.0	1405.0	1389.0	1350.0	1264.0	1230.0	1216.0
65°	1191.0	1227.0	1272.0	1332.0	1401.0	1435.0	1402.0	1330.0	1274.0	1221.0	1188.0
67.5°	1152.0	1159.0	1226.0	1300.0	1362.0	1379.0	1361.0	1301.0	1220.0	1154.0	1159.0
70°	1086.0	1076.0	1144.0	1230.0	1289.0	1316.0	1291.0	1226.0	1141.0	1074.0	1083.0
72.5°	977.0	983.0	1046.0	1137.0	1198.0	1224.0	1199.0	1130.0	1044.0	989.0	983.0
75°	863.0	870.0	931.0	1014.0	1076.0	1087.0	1080.0	1009.0	933.0	869.0	863.0
77.5°	733.0	740.0	790.0	881.0	918.0	935.0	920.0	886.0	788.0	739.0	731.0
80°	589.0	587.0	631.0	709.0	755.0	774.0	755.0	711.0	629.0	591.0	578.0
82.5°	421.0	423.0	464.0	518.0	562.0	568.0	559.0	523.0	460.0	428.0	410.0
85°	234.0	243.0	273.0	313.0	342.0	352.0	337.0	303.0	272.0	247.0	239.0
87.5°	56.0	61.0	71.0	90.0	101.0	111.0	101.0	94.0	67.0	61.0	56.0
90°	32.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
92.5°	37.6	37.1	37.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
95°	42.7	42.7	42.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
97.5°	48.3	48.3	48.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
100°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
102.5°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	61.0	60.5	60.5	60.5
105°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.1	67.1	67.1	67.1
107.5°	74.2	74.2	74.7	74.7	74.7	74.7	74.7	75.2	74.7	74.7	74.7
110°	81.3	81.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.9	89.9	90.9	90.9	90.9	90.9	91.4	91.4	90.9	90.9	90.9
115°	98.6	98.6	99.6	99.6	99.6	99.6	100.6	100.6	99.6	99.6	99.6
117.5°	108.8	108.8	109.2	109.8	109.8	109.8	110.8	110.8	109.8	109.8	109.8
120°	118.9	118.9	118.9	119.9	119.9	119.9	121.0	121.0	119.9	119.9	119.9
122.5°	130.6	130.6	131.1	131.6	131.6	131.6	132.6	132.6	132.1	132.1	131.6
125°	142.3	142.3	143.3	143.3	143.3	143.3	144.3	144.3	144.3	144.3	143.3
127.5°	155.0	155.0	156.0	156.0	156.0	156.0	157.0	157.0	157.0	157.0	156.0
130°	167.7	167.7	168.7	168.7	168.7	168.7	169.7	169.7	169.7	169.7	168.7
132.5°	180.9	180.9	181.4	181.4	181.4	181.4	182.4	182.4	182.4	182.4	181.9
135°	194.1	194.1	194.1	194.1	194.1	194.1	195.1	195.1	195.1	195.1	195.1
137.5°	206.8	206.3	206.8	206.3	206.8	207.3	207.3	207.3	207.3	207.3	207.3
140°	219.5	218.5	219.5	218.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5
142.5°	231.2	230.7	231.2	230.2	231.2	231.2	231.2	231.2	231.2	231.2	231.2
145°	242.9	242.9	242.9	241.9	242.9	242.9	242.9	242.9	242.9	242.9	242.9
147.5°	255.1	254.6	255.1	254.1	255.1	255.1	255.1	255.1	255.1	255.1	255.1
150°	267.3	266.3	267.3	266.3	267.3	267.3	267.3	267.3	267.3	267.3	267.3
152.5°	277.0	276.5	277.5	276.5	277.0	277.0	277.5	277.0	277.0	277.0	277.0
155°	286.6	286.6	287.6	286.6	286.6	286.6	287.6	286.6	286.6	286.6	286.6
157.5°	294.8	294.8	295.8	294.8	294.8	294.8	295.8	294.8	294.8	294.8	294.8
160°	302.9	302.9	303.9	302.9	302.9	302.9	303.9	302.9	302.9	302.9	302.9
162.5°	309.5	309.5	310.5	309.5	309.5	309.5	310.5	309.5	309.5	309.5	309.5
165°	316.1	316.1	317.1	316.1	316.1	316.1	317.1	316.1	316.1	316.1	316.1
167.5°	320.2	320.2	321.2	320.2	320.2	320.2	321.2	320.2	320.2	320.2	320.2
170°	324.2	324.2	325.2	324.2	324.2	324.2	325.2	324.2	324.2	324.2	324.2
172.5°	326.8	326.8	327.8	326.8	327.2	326.8	327.8	326.8	326.8	326.8	326.8
175°	329.3	329.3	330.3	329.3	330.3	329.3	330.3	329.3	329.3	329.3	329.3
177.5°	330.3	330.3	330.8	330.3	330.8	330.3	330.8	330.3	330.3	330.3	330.3
180°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3

(END OF REPORT)