

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: P198391

Luminaire Tested: **TT-C3-LED-E1-RW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198391
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-RW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5179.5 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G3

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



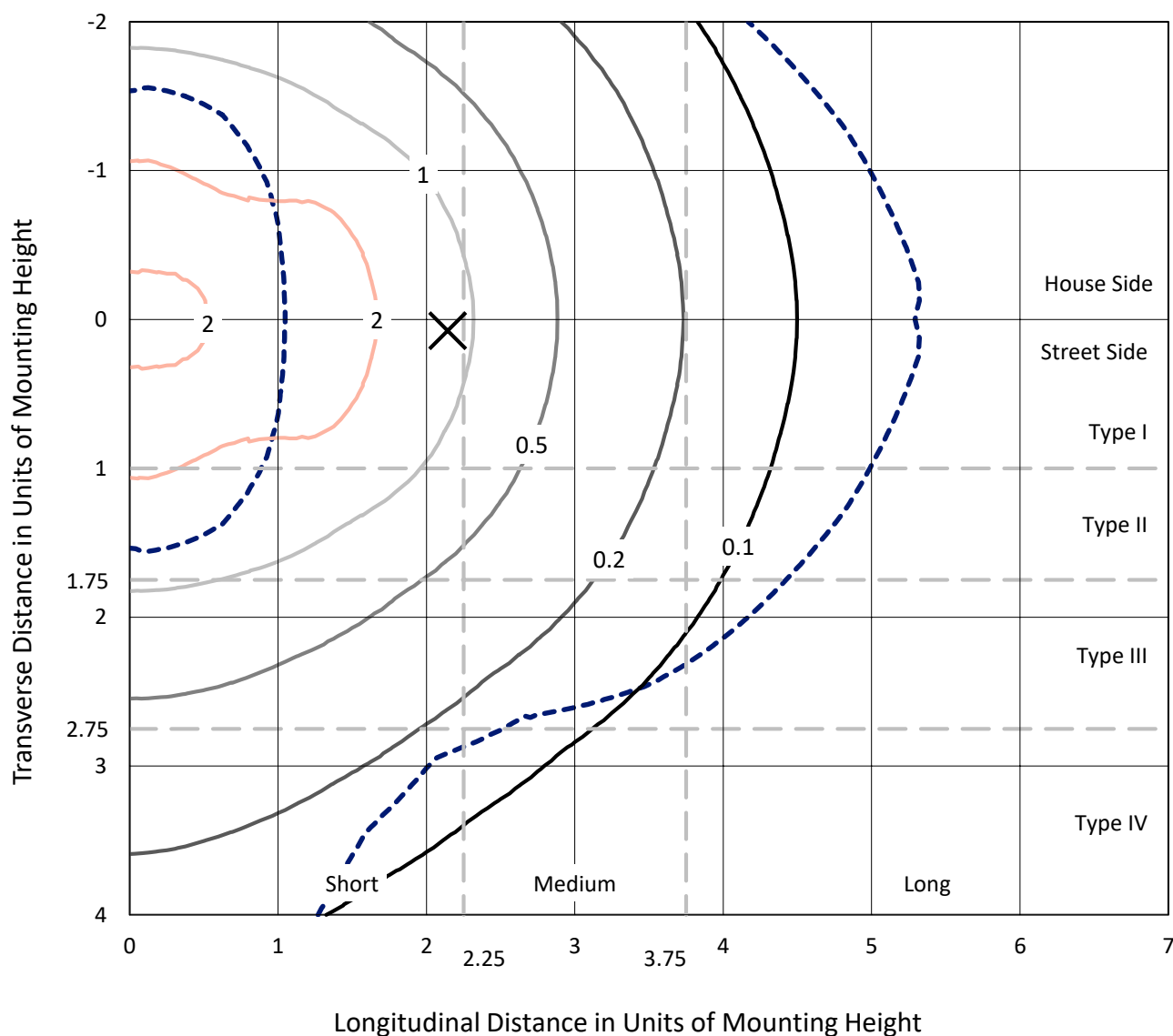
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

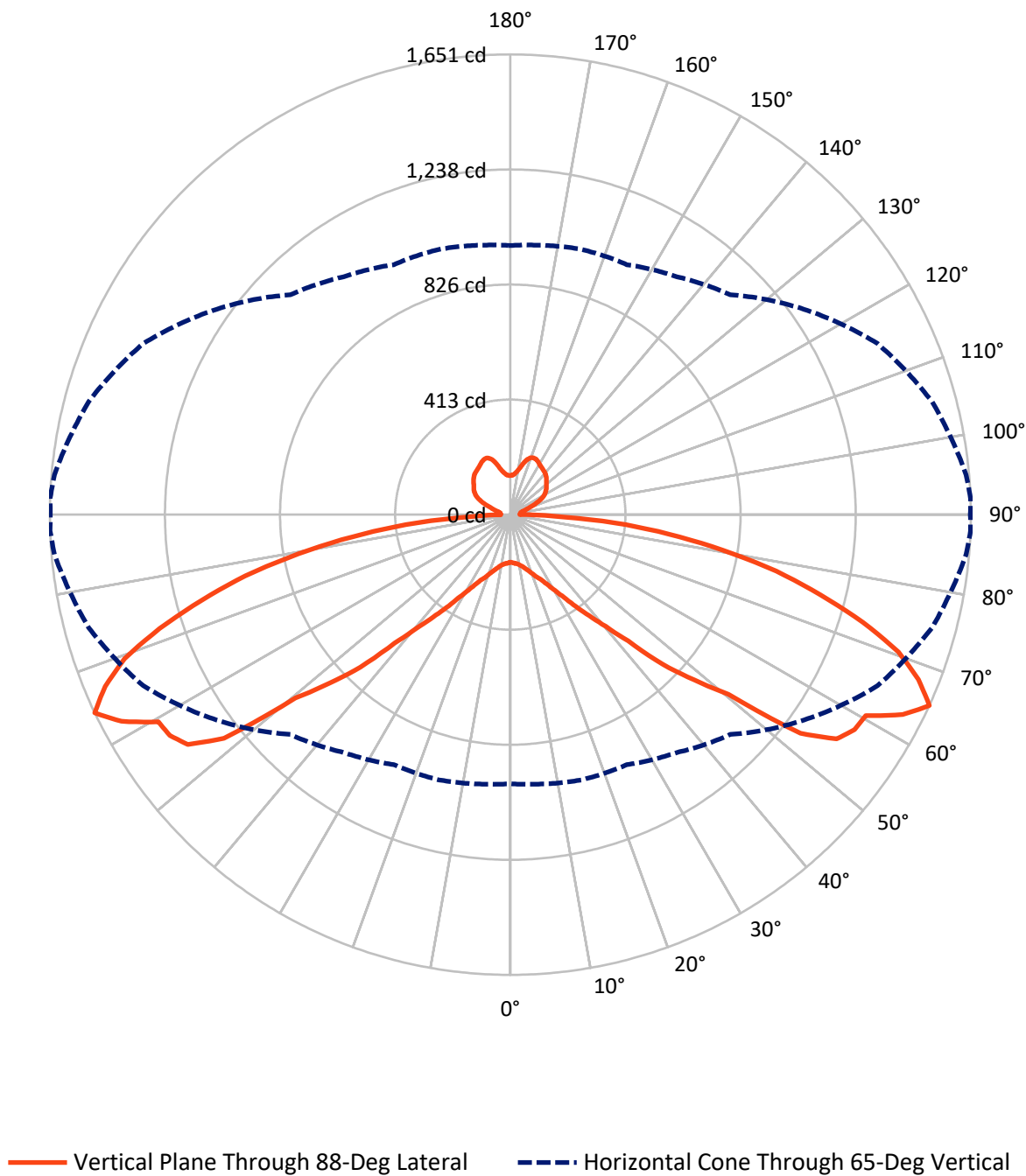


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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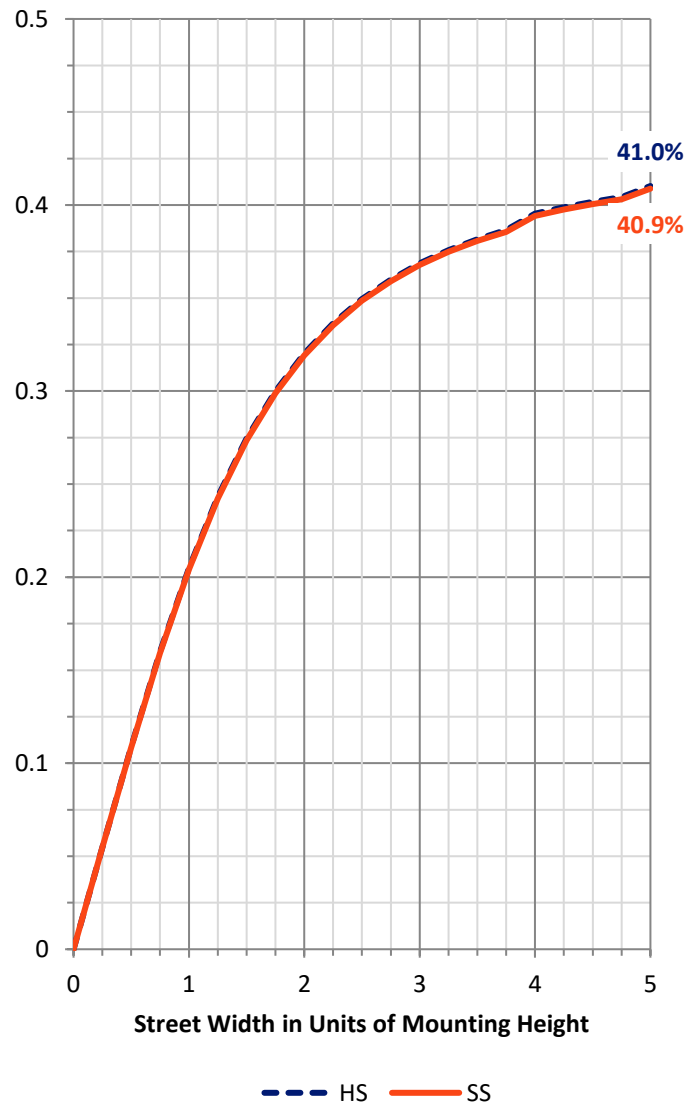
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2177.1	412.7	2589.7
	% Fixture	42.0	8.0	50.0
Street Side	Lumens	2177.1	412.7	2589.7
	% Fixture	42.0	8.0	50.0
Total	Lumens	4354.2	825.3	5179.5
	% Fixture	84.1	15.9	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.1	0.3
10°-20°	59.2	1.1
20°-30°	130.8	2.5
30°-40°	260.7	5.0
40°-50°	499.0	9.6
50°-60°	893.1	17.2
60°-70°	1183.5	22.9
70°-80°	987.7	19.1
80°-90°	323.1	6.2
90°-100°	38.4	0.7
100°-110°	59.5	1.1
110°-120°	119.6	2.3
120°-130°	148.9	2.9
130°-140°	153.3	3.0
140°-150°	136.3	2.6
150°-160°	103.9	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4354.2	84.1
0°-180°	5179.5	100.0

Coefficient of Utilization



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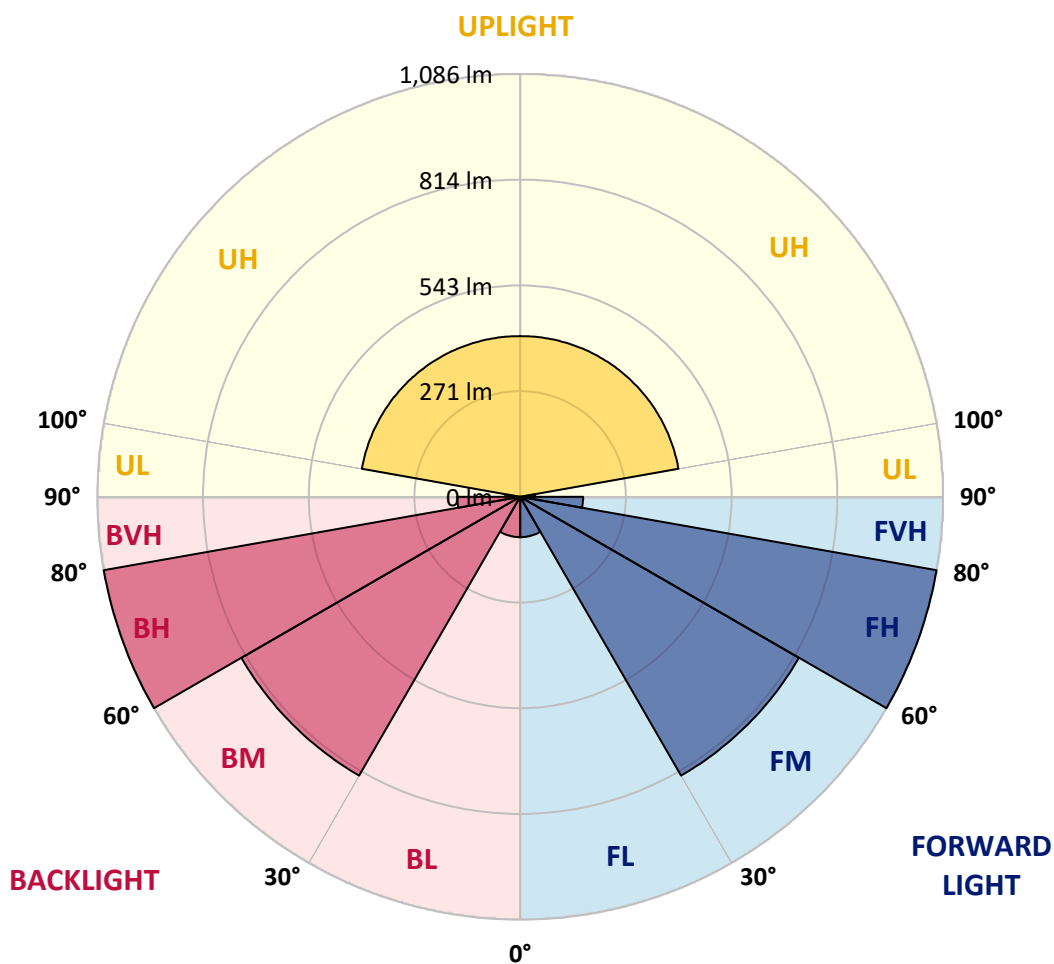
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.6	2.0			
FM	(30°-60°)	826.4	16.0			
FH	(60°-80°)	1085.6	21.0			G1/1800
FVH	(80°-90°)	161.5	3.1			G2/225
BL	(0°-30°)	103.6	2.0	B0/110		
BM	(30°-60°)	826.4	16.0	B1/1000		
BH	(60°-80°)	1085.6	21.0	B3/2500		G3/2500
BVH	(80°-90°)	161.5	3.1			G2/225
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.7	8.0		U3/500	

BUG Rating: B3-U4-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	170.3	170.3	170.3	170.3	170.3	170.3	170.3	170.3	170.3	170.3	170.3
2.5°	172.0	172.0	172.0	172.0	172.9	172.9	172.9	172.9	172.9	172.9	172.9
5°	174.6	174.6	175.5	175.5	176.3	176.3	176.3	176.3	175.5	175.5	175.5
7.5°	178.9	179.7	180.6	180.6	180.6	179.7	178.9	178.9	178.0	178.0	178.0
10°	186.6	186.6	187.4	187.4	186.6	185.7	184.9	184.0	184.0	184.0	183.2
12.5°	196.0	196.0	196.9	196.0	194.3	193.4	191.7	190.9	190.9	190.0	190.0
15°	208.8	210.5	210.5	208.0	205.4	202.8	202.0	200.3	200.3	200.3	200.3
17.5°	228.5	227.7	224.2	221.7	220.0	215.7	214.0	213.1	211.4	211.4	211.4
20°	250.8	249.1	244.8	241.4	237.9	232.8	229.4	227.7	226.8	226.0	226.0
22.5°	275.6	273.0	267.0	264.5	257.6	252.5	248.2	244.8	242.2	241.4	243.1
25°	301.3	301.3	296.1	289.3	282.4	274.7	268.7	264.5	261.0	260.2	259.3
27.5°	328.7	330.4	323.5	316.7	309.0	298.7	292.7	286.7	285.9	285.0	284.2
30°	357.8	361.2	354.3	347.5	337.2	326.9	319.2	316.7	314.1	315.8	315.8
32.5°	393.7	395.4	387.7	382.6	368.9	358.6	351.8	350.1	350.9	350.1	352.6
35°	435.6	433.1	427.1	416.8	404.8	395.4	390.3	393.7	403.1	406.5	404.8
37.5°	481.9	472.4	469.0	456.2	445.1	437.4	439.1	447.6	455.3	461.3	459.6
40°	516.1	517.8	508.4	496.4	486.1	484.4	493.8	505.0	519.5	524.7	526.4
42.5°	551.2	561.5	550.3	538.4	533.2	536.6	550.3	572.6	605.1	622.2	619.7
45°	591.4	602.5	590.6	581.1	580.3	593.1	623.1	681.3	729.2	763.4	766.9
47.5°	633.4	641.9	630.8	624.8	633.4	658.2	709.5	787.4	838.8	879.0	885.8
50°	686.4	683.0	674.4	673.6	692.4	737.8	807.1	885.8	978.3	1004.8	1013.4
52.5°	738.6	725.8	724.1	728.4	761.7	813.1	905.5	1060.4	1196.5	1292.4	1302.7
55°	787.4	772.9	776.3	787.4	834.5	912.4	1040.8	1229.9	1348.9	1416.5	1419.9
57.5°	831.9	823.4	831.1	846.5	916.7	1016.8	1152.9	1308.6	1398.5	1446.4	1455.0
60°	877.3	875.6	885.0	913.2	988.5	1077.6	1191.4	1329.2	1419.1	1455.9	1464.4
62.5°	920.1	926.1	938.1	965.4	1023.6	1093.0	1203.4	1372.0	1506.4	1564.6	1579.1
65°	965.4	970.6	985.1	989.4	1041.6	1115.2	1284.7	1452.4	1565.4	1640.7	1651.0
67.5°	1006.5	1013.4	1008.2	1004.8	1050.2	1115.2	1268.4	1415.6	1509.8	1567.1	1578.3
70°	1045.9	1038.2	1017.6	991.1	1004.0	1048.5	1188.8	1316.4	1411.4	1465.3	1476.4
72.5°	1056.2	1045.9	991.1	930.3	911.5	944.9	1074.1	1187.1	1265.0	1315.5	1322.3
75°	1029.6	1008.2	915.8	831.9	796.0	829.4	937.2	1033.9	1088.7	1143.5	1147.7
77.5°	923.5	909.8	807.1	705.2	665.0	689.8	779.7	848.2	911.5	964.6	974.9
80°	758.3	746.3	655.6	572.6	518.7	535.8	601.7	656.5	717.2	759.2	772.0
82.5°	558.0	556.3	491.3	413.4	375.7	374.0	423.7	477.6	523.8	564.0	572.6
85°	350.9	350.9	306.4	259.3	220.0	220.8	250.8	290.1	348.3	374.0	376.6
87.5°	119.0	113.0	105.3	85.6	68.5	61.6	65.9	75.3	114.7	142.1	147.2
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	38.4
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	48.6
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.6
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.4
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	114.2
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	130.6
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	143.2
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	151.2
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.8
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	164.2
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.8
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	177.2
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.4
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.4
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	201.6
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.2
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.6
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.6
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.4
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	220.2
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	216.2
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	191.2
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.2
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.6
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.2
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.6
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

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CANDELA DISTRIBUTION (continued):

	90°
0°	170.3
2.5°	172.9
5°	175.5
7.5°	178.0
10°	183.2
12.5°	190.9
15°	199.4
17.5°	211.4
20°	226.0
22.5°	242.2
25°	259.3
27.5°	285.0
30°	315.0
32.5°	351.8
35°	405.7
37.5°	461.3
40°	530.6
42.5°	626.5
45°	758.3
47.5°	885.8
50°	1004.0
52.5°	1281.3
55°	1423.3
57.5°	1454.1
60°	1461.9
62.5°	1571.4
65°	1649.3
67.5°	1577.4
70°	1473.8
72.5°	1317.2
75°	1154.6
77.5°	974.9
80°	761.7
82.5°	572.6
85°	370.6
87.5°	142.9
90°	34.0
92.5°	36.0
95°	38.0
97.5°	36.0
100°	37.0
102.5°	41.0
105°	49.0
107.5°	60.0
110°	75.0

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CANDELA DISTRIBUTION (continued):

	90°
112.5°	94.0
115°	113.0
117.5°	129.0
120°	142.0
122.5°	150.0
125°	158.0
127.5°	163.0
130°	169.0
132.5°	176.0
135°	184.0
137.5°	190.0
140°	195.0
142.5°	198.0
145°	202.0
147.5°	206.0
150°	211.0
152.5°	216.0
155°	219.0
157.5°	219.0
160°	215.0
162.5°	207.0
165°	192.0
167.5°	174.0
170°	160.0
172.5°	151.0
175°	144.0
177.5°	141.0
180°	140.0

(END OF REPORT)