

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: P198454

Luminaire Tested: **TT-C4-LED-E1-RW-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198454
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-C4-LED-E1-RW-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5073.6 lumens
Efficiency: N/A
Efficacy: 67.3 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): 75.4
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



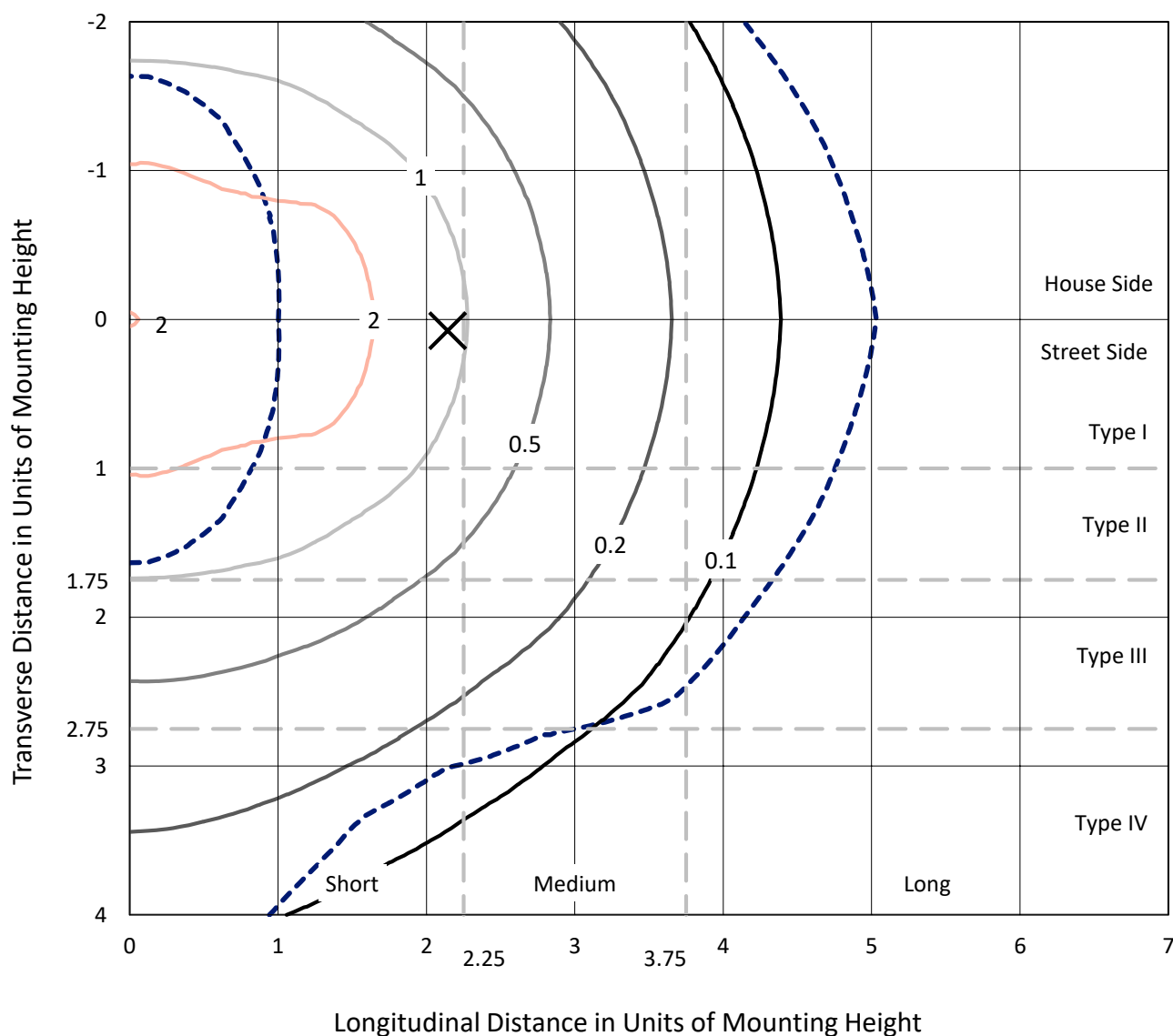
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

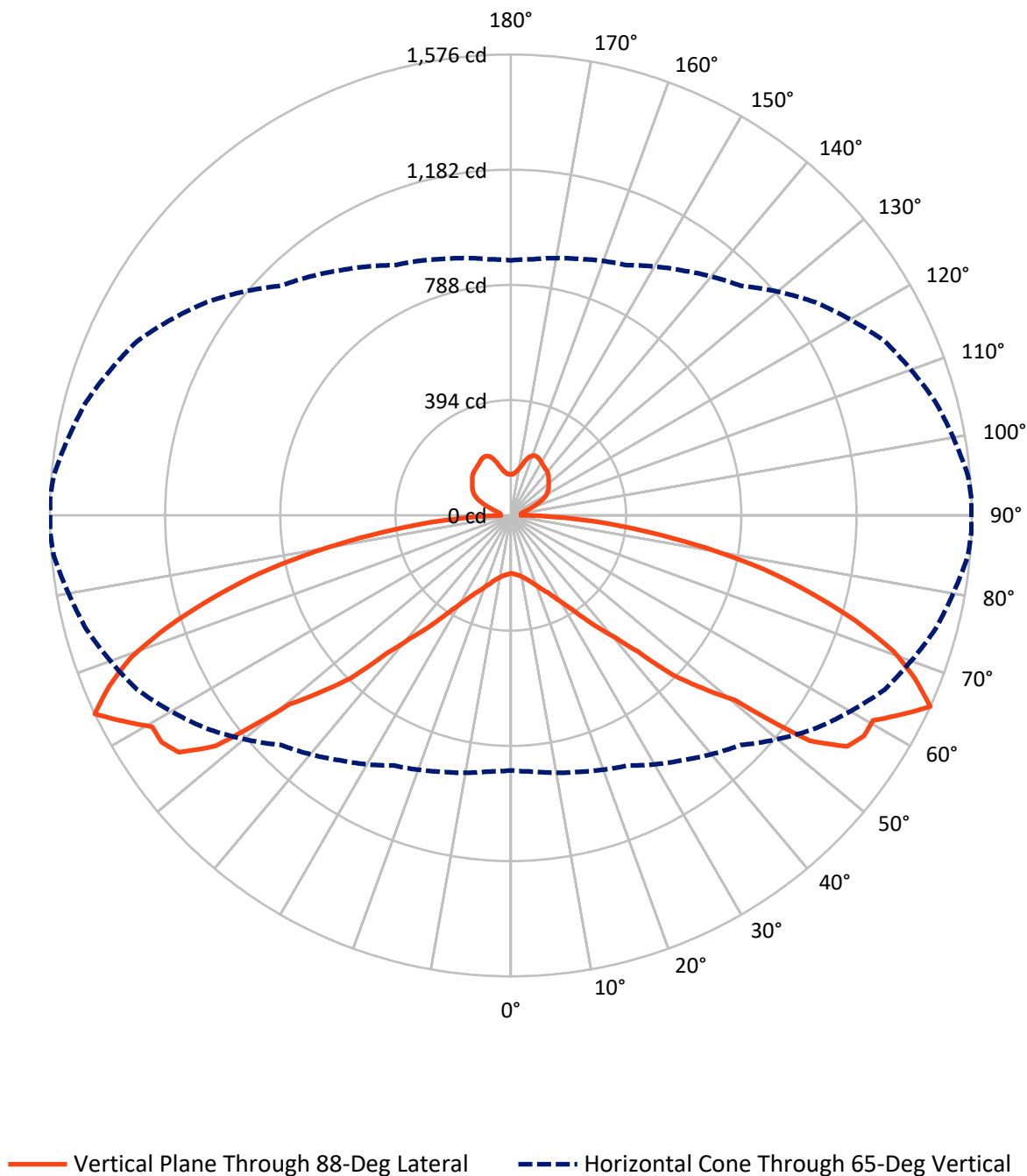


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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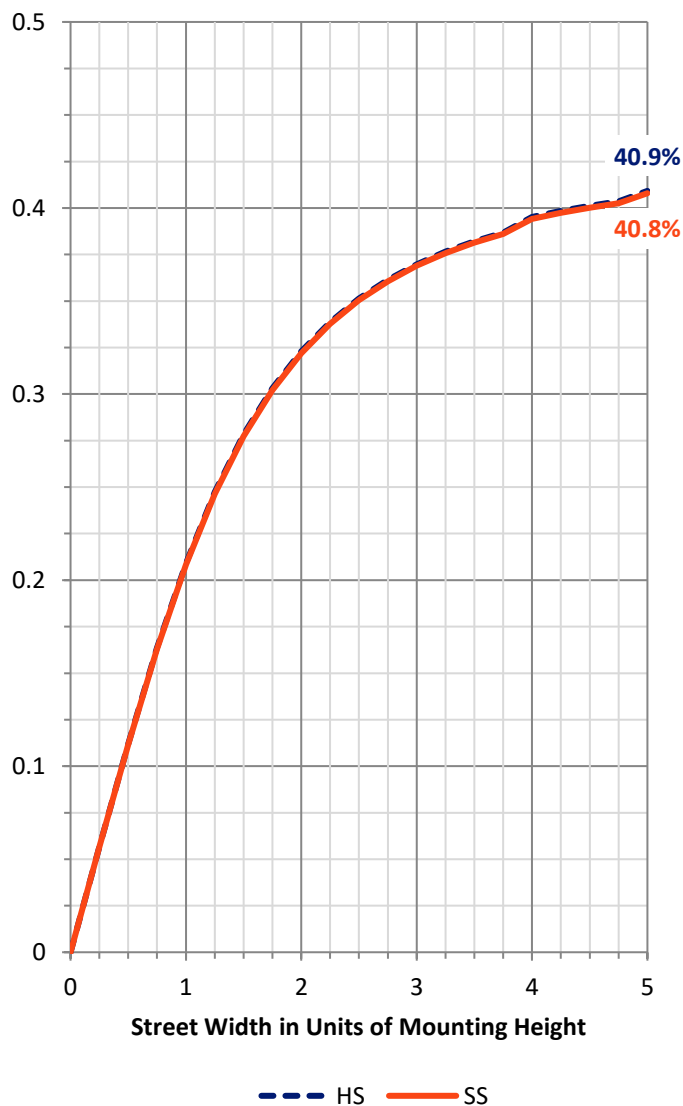
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.2	412.7	2536.8
	% Fixture	41.9	8.1	50.0
Street Side	Lumens	2124.2	412.7	2536.8
	% Fixture	41.9	8.1	50.0
Total	Lumens	4248.3	825.3	5073.6
	% Fixture	83.7	16.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.4
10°-20°	67.6	1.3
20°-30°	143.7	2.8
30°-40°	274.5	5.4
40°-50°	504.6	9.9
50°-60°	873.9	17.2
60°-70°	1136.9	22.4
70°-80°	931.7	18.4
80°-90°	295.7	5.8
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.4
120°-130°	148.9	2.9
130°-140°	153.3	3.0
140°-150°	136.3	2.7
150°-160°	103.9	2.0
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4248.3	83.7
0°-180°	5073.6	100.0

Coefficient of Utilization



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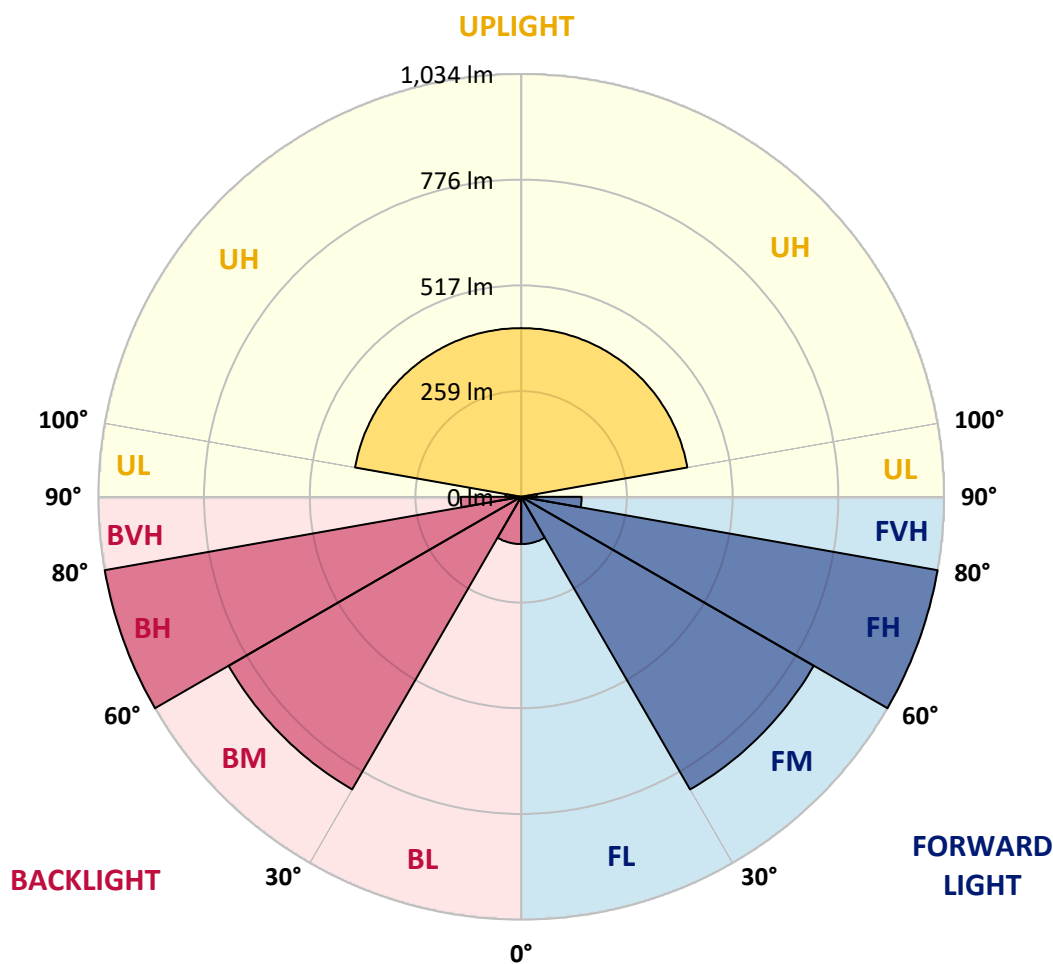
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	115.6	2.3			
FM	(30°-60°)	826.5	16.3			
FH	(60°-80°)	1034.3	20.4			G1/1800
FVH	(80°-90°)	147.8	2.9			G2/225
BL	(0°-30°)	115.6	2.3	B1/500		
BM	(30°-60°)	826.5	16.3	B1/1000		
BH	(60°-80°)	1034.3	20.4	B3/2500		G3/2500
BVH	(80°-90°)	147.8	2.9			G2/225
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.1		U3/500	

BUG Rating: B3-U4-G3

Type IV Short



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CATALOG NUMBER: TT-C4-LED-E1-RW-MS/DIM-8030-UPL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	88°
0°	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3	198.3
2.5°	200.1	200.1	200.1	200.1	200.1	200.1	200.1	200.1	200.1	200.1	200.1
5°	203.7	203.7	203.7	204.6	204.6	204.6	204.6	204.6	203.7	203.7	203.7
7.5°	208.1	208.1	209.0	209.0	209.0	209.0	208.1	208.1	207.2	207.2	207.2
10°	215.3	215.3	216.2	216.2	215.3	214.4	214.4	214.4	213.5	213.5	213.5
12.5°	225.1	225.1	226.0	225.1	224.2	223.3	223.3	222.4	221.5	221.5	221.5
15°	238.5	238.5	237.6	235.8	234.0	234.0	231.4	231.4	231.4	231.4	230.5
17.5°	256.4	255.5	251.9	251.0	248.3	246.5	244.8	243.9	243.0	243.0	243.9
20°	276.0	274.2	269.8	269.8	265.3	262.6	260.8	259.0	259.0	258.2	257.3
22.5°	299.2	297.5	292.1	290.3	285.8	281.4	279.6	275.1	274.2	274.2	275.1
25°	322.5	323.4	318.9	315.3	309.1	304.6	298.3	295.7	293.0	293.0	291.2
27.5°	349.3	350.2	344.8	340.3	335.0	326.0	322.5	318.9	316.2	318.0	316.2
30°	377.8	379.6	375.2	369.8	361.8	352.8	348.4	347.5	344.8	346.6	345.7
32.5°	410.9	410.0	407.3	402.0	391.2	384.1	380.5	379.6	381.4	382.3	381.4
35°	449.3	445.7	443.1	435.0	425.2	419.8	416.3	419.8	427.9	433.2	431.4
37.5°	489.5	484.1	481.5	472.5	463.6	460.9	465.4	472.5	480.6	487.7	487.7
40°	522.6	524.3	518.1	510.0	502.9	505.6	513.6	526.1	542.2	549.4	548.5
42.5°	555.6	561.0	554.7	546.7	547.6	555.6	567.2	590.4	626.2	636.9	636.0
45°	585.1	596.7	591.3	586.0	594.0	607.4	638.7	690.5	739.6	776.2	778.9
47.5°	623.5	629.7	627.1	627.1	639.6	670.8	718.2	790.5	842.3	877.2	882.5
50°	667.3	661.0	661.9	669.9	701.2	747.7	812.0	879.9	972.8	988.8	993.3
52.5°	703.9	693.2	699.4	714.6	760.2	819.1	899.5	1038.9	1157.7	1264.9	1280.0
55°	741.4	728.9	741.4	765.5	832.5	914.7	1032.6	1194.3	1319.3	1386.3	1394.4
57.5°	770.0	768.2	786.1	820.9	903.1	1013.0	1146.0	1284.5	1368.5	1415.8	1423.0
60°	805.7	807.5	828.0	874.5	972.8	1078.2	1177.3	1304.2	1387.2	1414.9	1423.0
62.5°	839.7	846.8	870.9	923.6	1009.4	1089.8	1185.4	1339.0	1444.4	1504.2	1498.9
65°	871.8	879.0	907.5	943.3	1021.9	1110.3	1270.2	1409.6	1502.5	1568.6	1575.7
67.5°	904.0	912.9	924.5	953.1	1029.0	1112.1	1250.6	1367.6	1442.6	1488.2	1490.8
70°	931.7	930.8	928.1	936.1	983.5	1047.8	1176.4	1269.3	1339.9	1377.4	1386.3
72.5°	935.2	932.6	901.3	878.1	893.3	944.2	1067.4	1141.6	1195.2	1226.4	1232.7
75°	905.8	890.6	828.9	778.9	776.2	827.2	930.8	984.4	1016.5	1056.7	1059.4
77.5°	810.2	793.2	724.4	656.5	656.5	689.6	776.2	804.8	845.0	875.4	883.4
80°	653.0	651.2	579.7	526.1	506.5	534.2	604.7	615.5	645.8	671.7	679.8
82.5°	472.5	459.1	419.8	374.3	358.2	376.1	424.3	435.0	446.6	469.9	479.7
85°	285.8	286.7	259.9	234.0	213.5	219.7	257.3	272.4	287.6	302.8	308.2
87.5°	102.7	118.8	92.9	82.2	71.5	67.9	79.5	98.3	115.2	136.7	148.3
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°	198.3
2.5°	200.1
5°	202.8
7.5°	207.2
10°	213.5
12.5°	221.5
15°	230.5
17.5°	242.1
20°	257.3
22.5°	273.3
25°	292.1
27.5°	318.0
30°	344.8
32.5°	381.4
35°	435.9
37.5°	487.7
40°	551.1
42.5°	639.6
45°	782.5
47.5°	881.6
50°	1001.3
52.5°	1267.5
55°	1397.1
57.5°	1424.7
60°	1423.0
62.5°	1513.2
65°	1574.8
67.5°	1492.6
70°	1389.9
72.5°	1230.0
75°	1065.7
77.5°	887.9
80°	683.3
82.5°	476.1
85°	320.7
87.5°	132.2
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)