

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: P198409

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198409
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-WQ-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5778.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U4 - G2

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



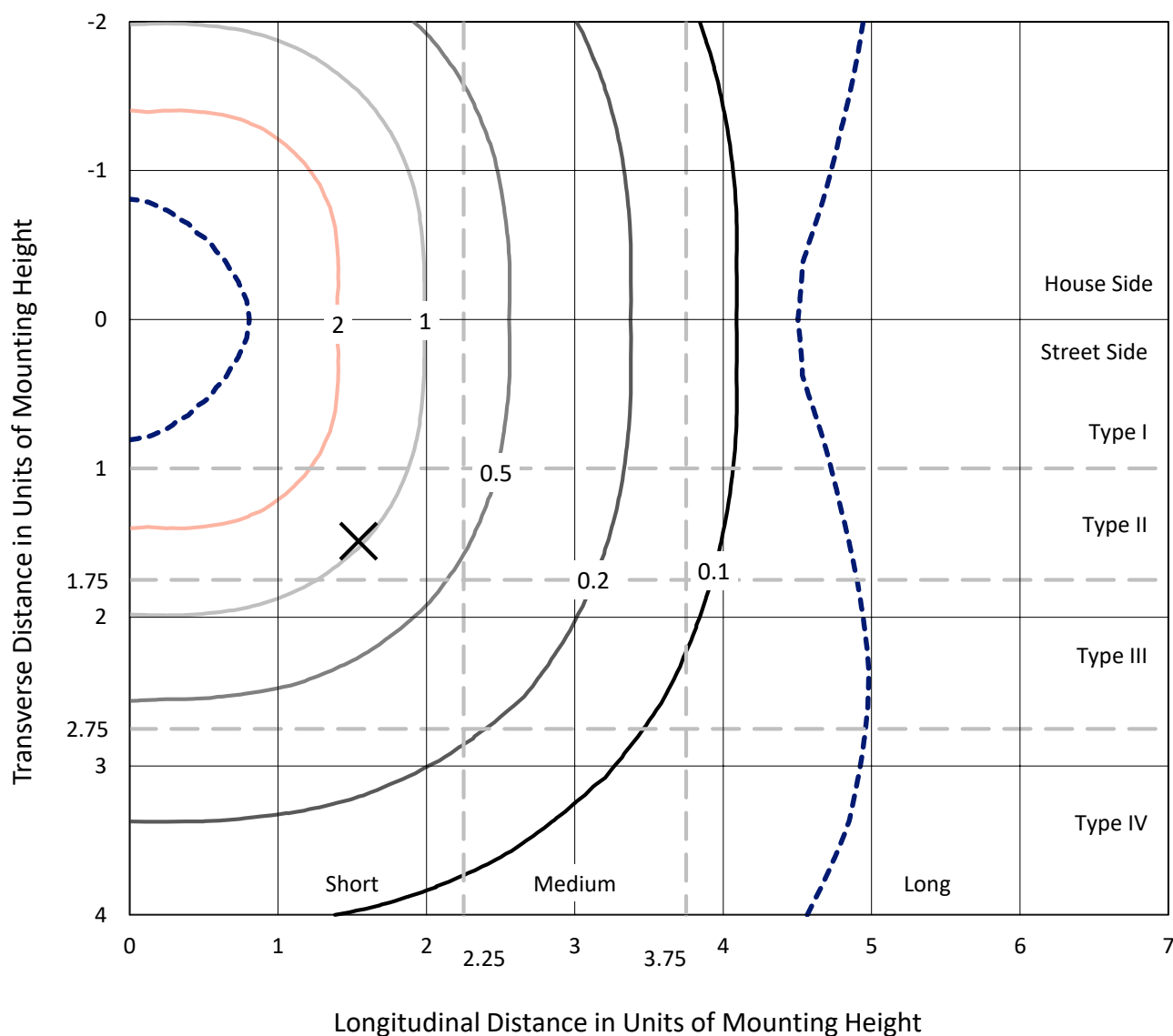
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

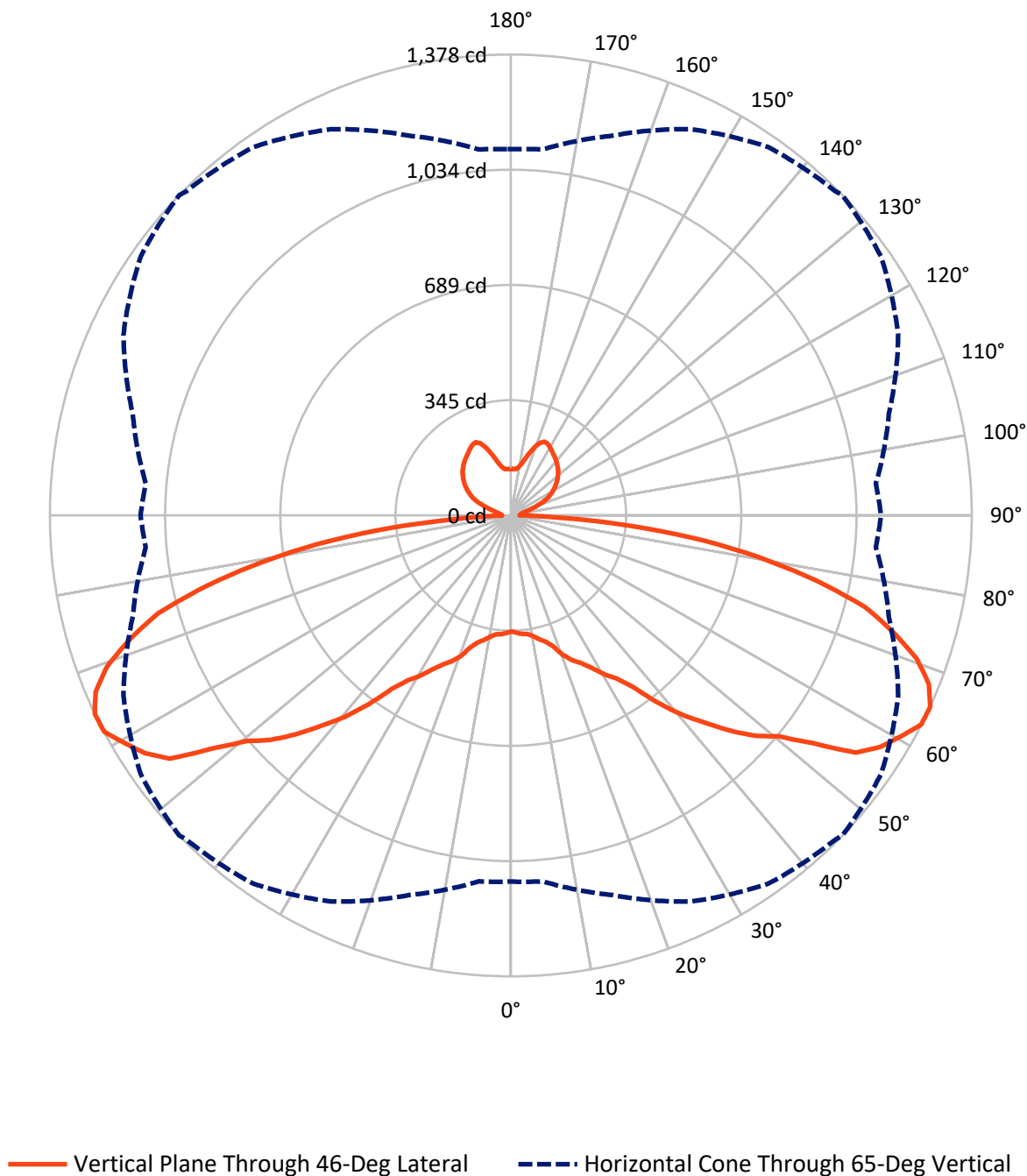


Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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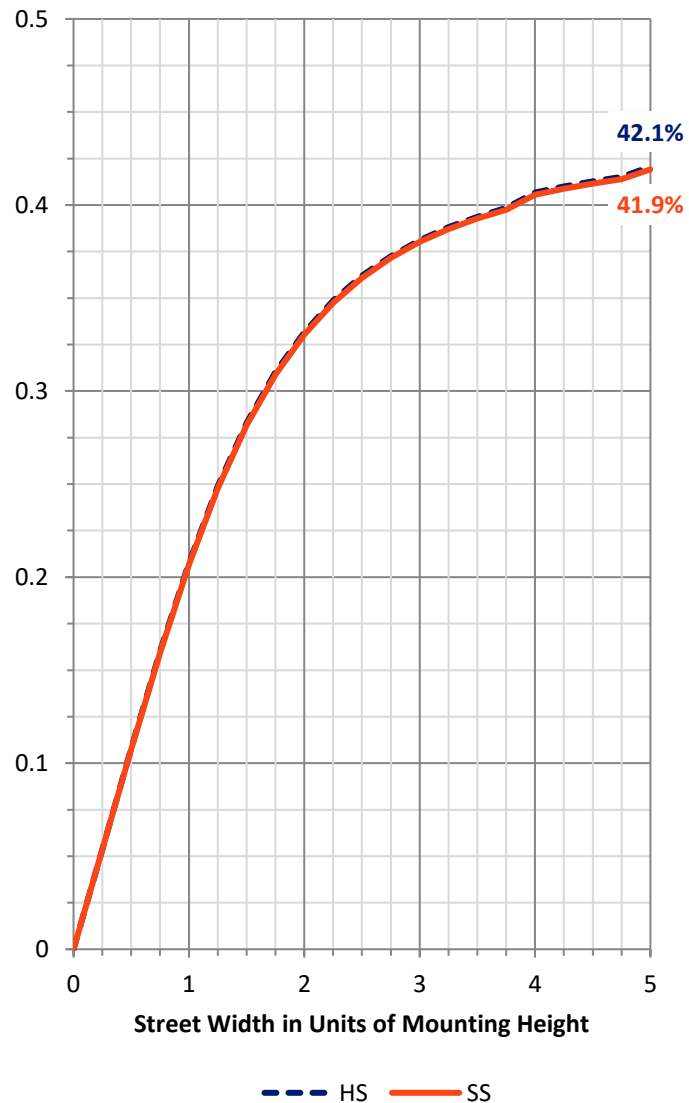
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.5	412.6	2889.1
	% Fixture	42.9	7.1	50.0
Street Side	Lumens	2476.5	412.6	2889.1
	% Fixture	42.9	7.1	50.0
Total	Lumens	4953.0	825.3	5778.3
	% Fixture	85.7	14.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	0.6
10°-20°	114.2	2.0
20°-30°	229.9	4.0
30°-40°	400.3	6.9
40°-50°	677.1	11.7
50°-60°	1009.2	17.5
60°-70°	1207.8	20.9
70°-80°	977.9	16.9
80°-90°	302.3	5.2
90°-100°	38.4	0.7
100°-110°	59.5	1.0
110°-120°	119.6	2.1
120°-130°	148.9	2.6
130°-140°	153.3	2.7
140°-150°	136.3	2.4
150°-160°	103.9	1.8
160°-170°	51.8	0.9
170°-180°	13.6	0.2
0°-90°	4953.0	85.7
0°-180°	5778.3	100.0

Coefficient of Utilization



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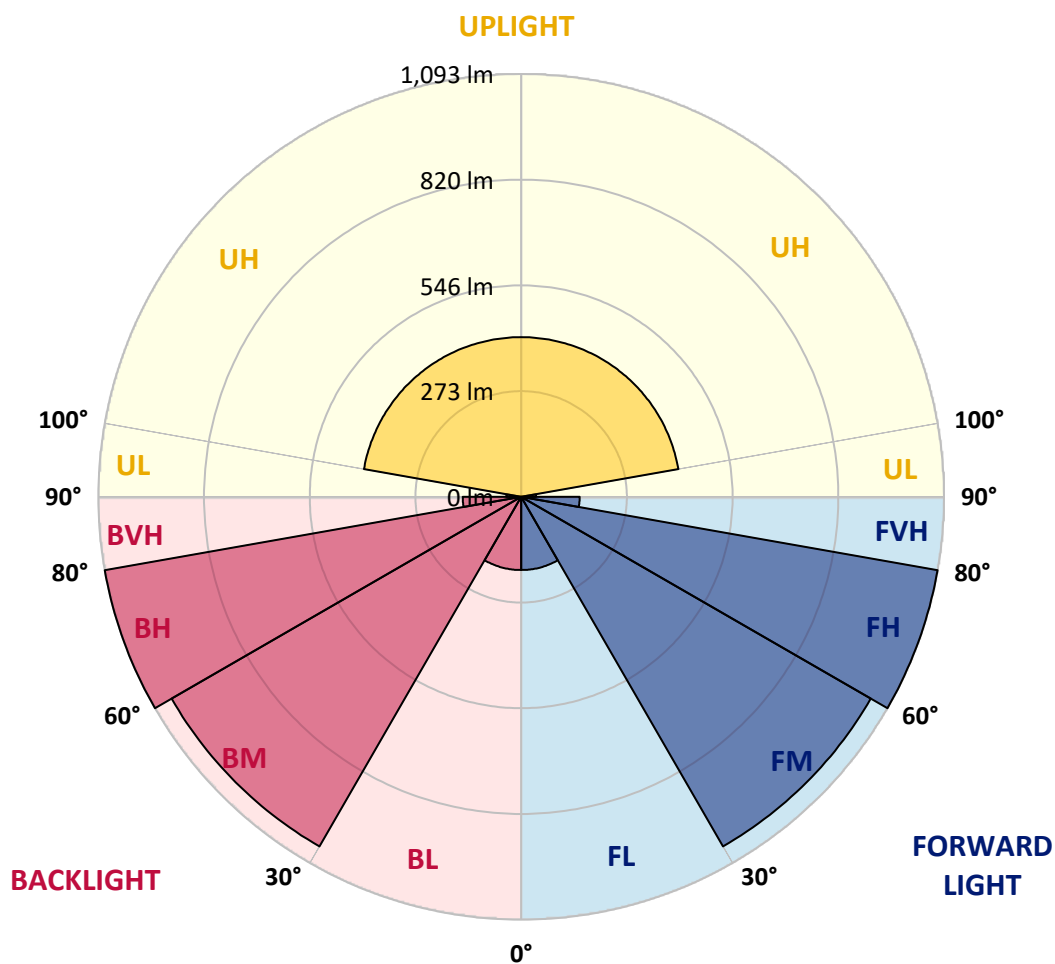
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.2	3.3			
FM	(30°-60°)	1043.3	18.1			
FH	(60°-80°)	1092.8	18.9			G1/1800
FVH	(80°-90°)	151.2	2.6			G2/225
BL	(0°-30°)	189.2	3.3	B1/500		
BM	(30°-60°)	1043.3	18.1	B2/2500		
BH	(60°-80°)	1092.8	18.9	B3/2500		G1/1800
BVH	(80°-90°)	151.2	2.6			G2/225
UL	(90°-100°)	38.4	0.7		U2/50	
UH	(100°-180°)	412.6	7.1		U3/500	

BUG Rating: B3-U4-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	346.6	346.6	346.6	346.6	346.6	346.6	346.6	346.6	346.6	346.6	346.6
2.5°	352.6	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	351.8	352.6
5°	358.6	358.6	357.8	356.9	356.9	356.0	356.0	356.0	356.9	357.8	357.8
7.5°	361.2	360.3	360.3	359.5	358.6	358.6	357.8	358.6	359.5	360.3	360.3
10°	366.3	367.2	368.0	368.9	369.7	368.9	367.2	368.9	368.9	368.0	366.3
12.5°	378.3	378.3	380.9	383.4	383.4	382.6	380.0	383.4	382.6	380.0	378.3
15°	394.6	395.4	395.4	398.0	396.3	394.6	392.0	396.3	396.3	394.6	393.7
17.5°	417.7	416.0	413.4	415.1	416.8	416.8	411.7	416.8	413.4	411.7	414.2
20°	443.3	442.5	441.6	443.3	450.2	447.6	445.1	448.5	444.2	438.2	439.9
22.5°	463.0	464.7	467.3	469.9	476.7	475.0	469.9	475.9	469.0	467.3	462.2
25°	487.9	487.0	493.8	493.8	498.1	495.6	489.6	498.1	491.3	493.8	486.1
27.5°	512.7	511.8	517.0	517.0	524.7	523.8	516.1	524.7	517.0	515.2	512.7
30°	540.9	539.2	540.1	546.9	558.0	558.0	551.2	555.5	546.9	538.4	537.5
32.5°	570.9	567.5	572.6	583.7	589.7	588.0	581.1	588.0	585.4	570.9	567.5
35°	600.0	604.3	613.7	623.1	634.2	635.9	629.9	633.4	623.9	612.8	604.3
37.5°	648.8	655.6	667.6	689.8	707.0	712.1	707.0	705.2	691.6	666.7	654.8
40°	717.2	718.9	735.2	768.6	786.6	790.0	780.6	783.1	766.9	739.5	713.8
42.5°	772.9	770.3	799.4	829.4	848.2	855.9	845.6	849.0	826.8	800.3	772.0
45°	818.2	820.8	850.7	880.7	910.7	925.2	917.5	911.5	879.0	849.0	824.2
47.5°	860.2	872.1	892.7	936.3	974.0	990.3	984.3	975.7	941.5	891.8	873.0
50°	913.2	920.9	945.8	1002.2	1037.3	1043.3	1038.2	1038.2	1005.7	948.3	922.6
52.5°	970.6	971.4	1008.2	1066.4	1110.9	1134.9	1130.6	1118.6	1067.3	1016.8	974.9
55°	1039.0	1029.6	1087.0	1147.7	1214.5	1253.9	1252.2	1226.5	1156.3	1089.5	1033.9
57.5°	1077.6	1079.3	1131.5	1223.1	1287.3	1298.4	1304.4	1289.0	1235.9	1133.2	1089.5
60°	1086.1	1106.7	1154.6	1255.6	1306.1	1338.6	1340.3	1314.6	1259.0	1161.4	1115.2
62.5°	1089.5	1114.4	1173.4	1253.9	1339.5	1371.1	1377.1	1350.6	1260.7	1176.0	1108.4
65°	1094.7	1098.1	1175.1	1273.6	1343.7	1371.1	1378.0	1350.6	1277.8	1170.0	1095.5
67.5°	1073.3	1064.7	1132.3	1239.3	1307.8	1340.3	1348.0	1315.5	1241.9	1134.0	1075.8
70°	996.3	999.7	1075.0	1176.8	1252.2	1283.0	1288.1	1253.0	1176.0	1082.7	1015.1
72.5°	914.9	923.5	986.8	1089.5	1157.2	1187.1	1196.5	1159.7	1094.7	998.8	928.6
75°	802.0	818.2	879.0	971.4	1039.0	1084.4	1093.8	1045.9	968.0	885.0	817.4
77.5°	677.0	688.1	746.3	825.9	898.7	921.8	930.3	907.2	830.2	756.6	693.3
80°	532.4	536.6	595.7	659.0	715.5	734.3	747.2	718.1	665.9	599.1	537.5
82.5°	365.5	371.5	413.4	471.6	521.2	528.9	545.2	521.2	472.4	421.1	374.9
85°	190.0	198.6	231.1	262.8	301.3	310.7	315.8	297.8	272.2	230.2	199.4
87.5°	41.1	45.4	50.5	65.0	77.9	89.0	96.7	80.5	64.2	53.9	41.1
90°	36.0	36.0	36.0	34.0	29.0	26.0	26.0	28.0	32.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	27.0	28.0	32.0	35.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.0	30.0	30.0	34.0	37.0	39.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.0	32.8	33.0	34.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	35.8	36.0	38.0	38.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	42.0	43.0	44.0	42.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	52.0	52.0	54.0	53.0	49.0	48.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	68.0	66.0	60.0	59.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	86.8	84.0	84.0	78.0	74.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	106.2	102.0	105.0	100.0	95.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	123.2	121.0	125.0	123.0	116.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	135.8	138.0	141.0	139.0	133.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	147.2	150.0	153.0	148.0	145.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	158.0	159.0	162.0	155.0	153.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.8	167.0	168.0	163.0	160.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	177.4	176.0	175.0	173.0	166.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	185.4	183.0	183.0	184.0	171.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	194.2	190.0	192.0	192.0	179.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	200.2	196.0	201.0	199.0	185.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	207.0	203.0	210.0	204.0	191.0
140°	229.0	226.0	216.0	200.0	207.0	213.0	212.8	212.0	217.0	209.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	218.0	218.0	220.0	223.0	211.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	223.0	223.4	230.0	227.0	211.0	201.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	229.8	239.0	229.0	212.0	204.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	235.8	242.0	232.0	214.0	210.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	241.0	242.0	235.0	219.0	215.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	242.2	238.0	234.0	224.0	220.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	234.0	228.0	229.0	226.0	222.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	218.4	215.0	219.0	221.0	218.0
162.5°	185.0	184.0	193.0	193.0	198.0	198.0	197.6	196.0	200.0	204.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	177.0	176.6	176.0	181.0	185.0	190.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	158.8	160.0	165.0	168.0	172.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	147.0	148.0	152.0	155.0	159.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	140.8	141.0	145.0	146.0	149.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.8	138.0	141.0	141.0	143.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	138.8	138.0	140.0	140.0	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°	346.6
2.5°	351.8
5°	357.8
7.5°	360.3
10°	366.3
12.5°	377.4
15°	394.6
17.5°	416.0
20°	439.1
22.5°	459.6
25°	484.4
27.5°	512.7
30°	541.8
32.5°	565.7
35°	599.1
37.5°	653.9
40°	719.8
42.5°	772.9
45°	816.5
47.5°	865.3
50°	914.1
52.5°	976.6
55°	1038.2
57.5°	1069.9
60°	1089.5
62.5°	1104.9
65°	1106.7
67.5°	1062.2
70°	994.5
72.5°	917.5
75°	804.5
77.5°	685.6
80°	532.4
82.5°	374.0
85°	196.0
87.5°	38.5
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)