

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: P198395

Luminaire Tested: **TT-C3-LED-E1-RW-CG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198395
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-CG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4743.1 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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

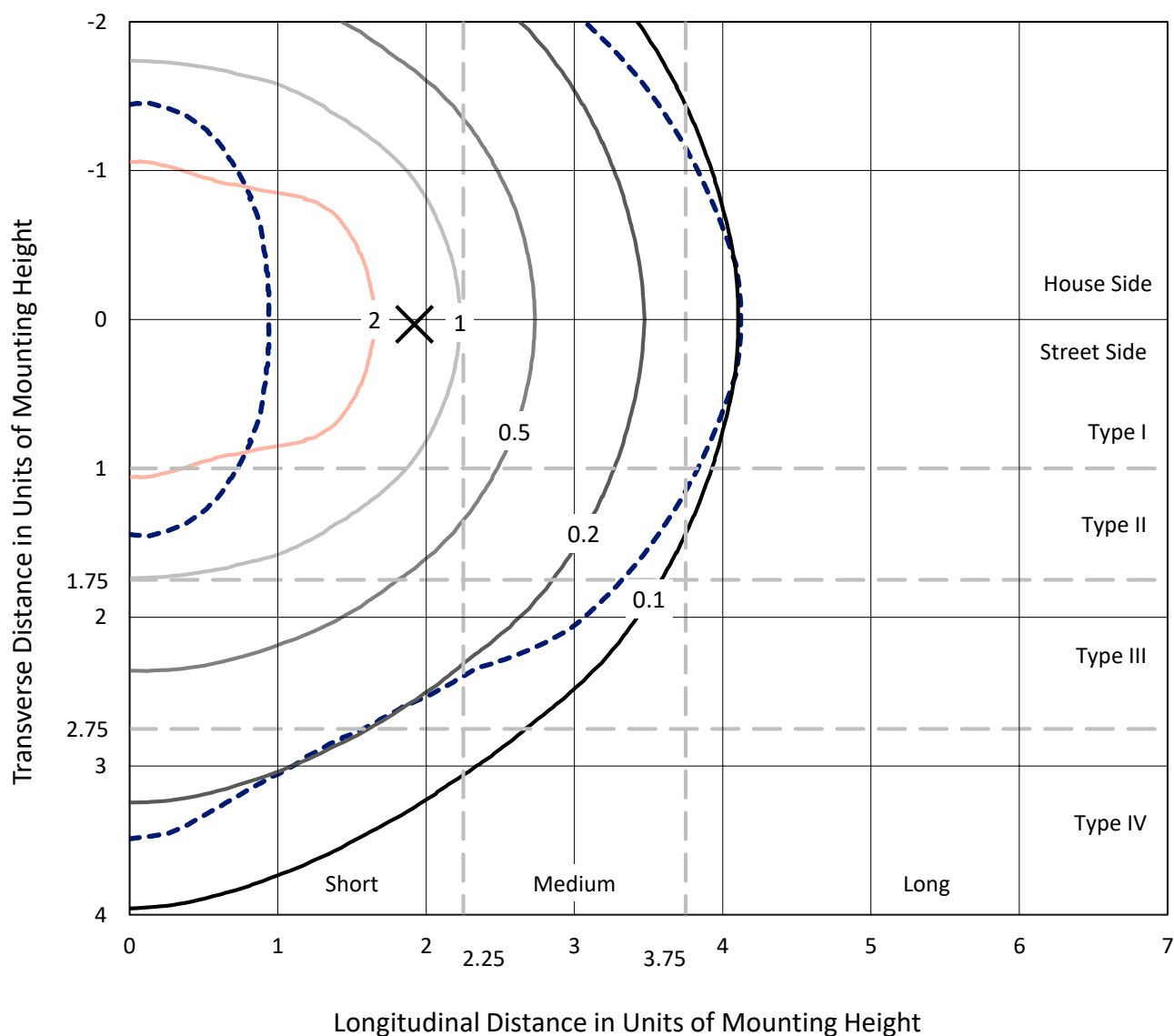


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

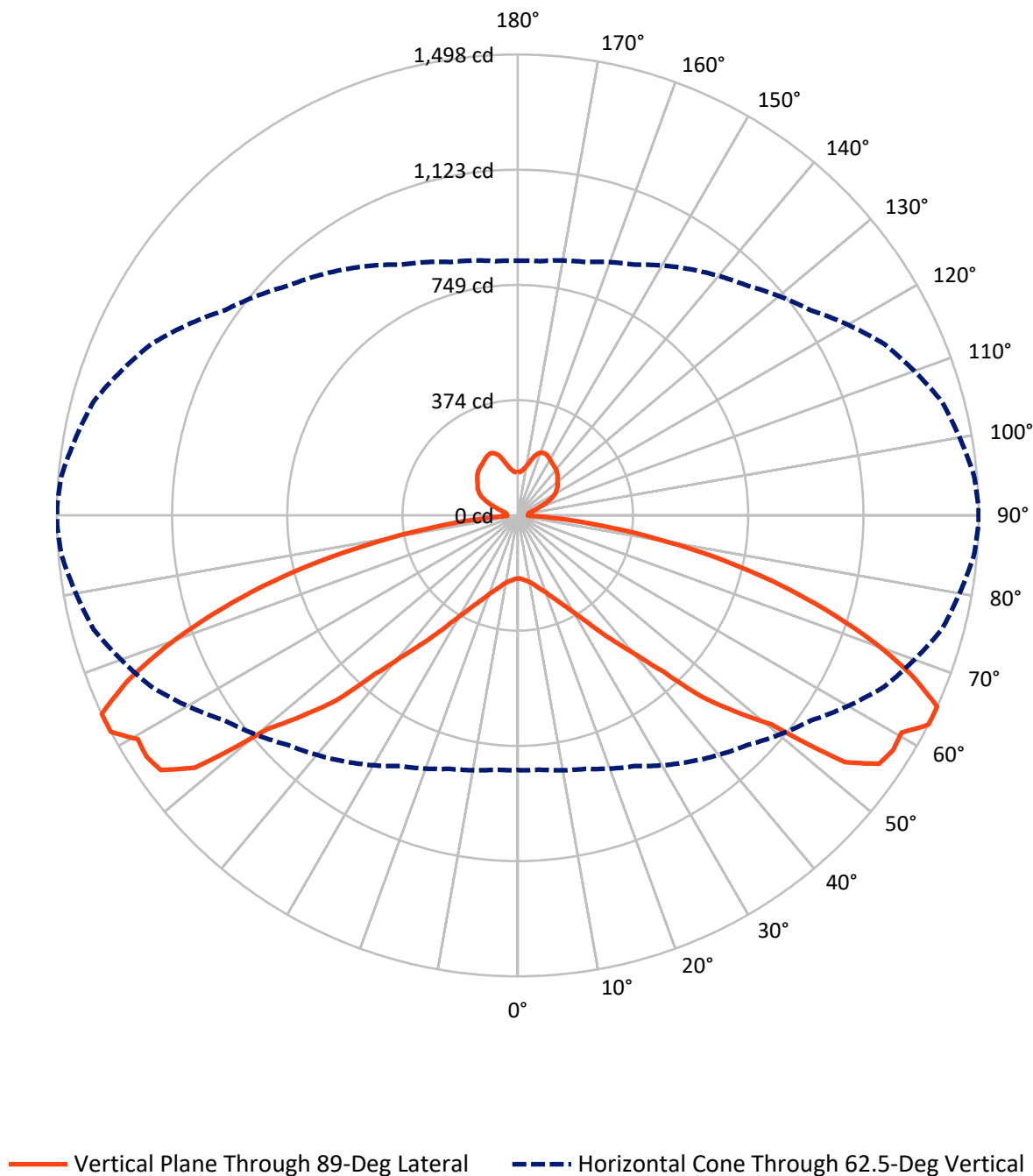


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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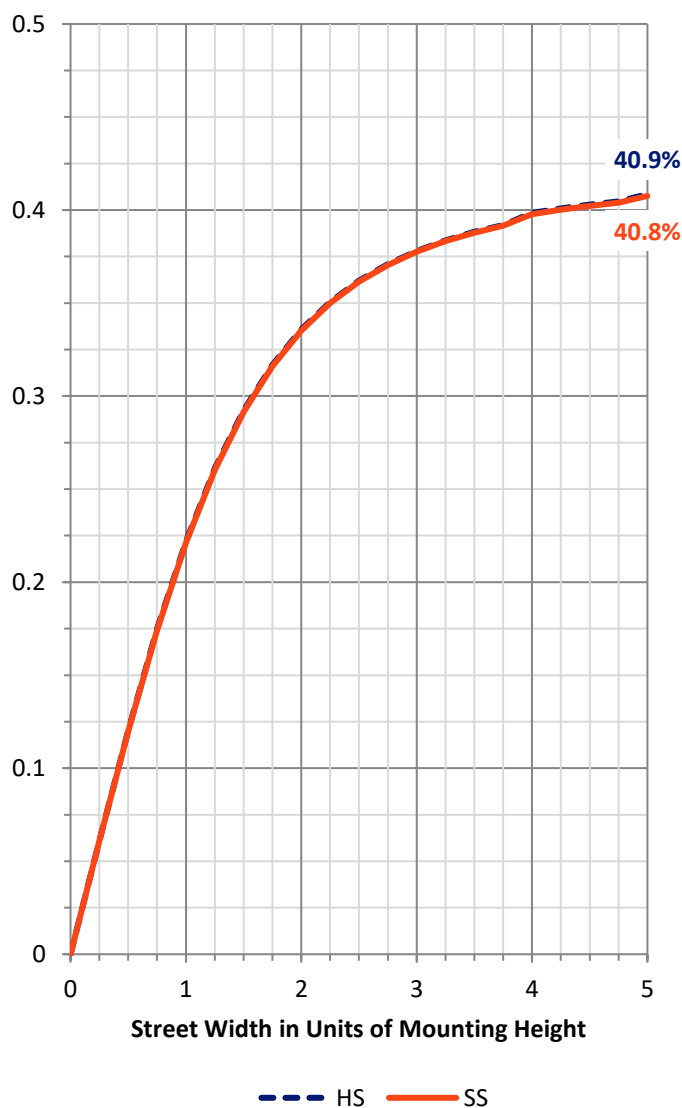
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.9	412.7	2371.5
	% Fixture	41.3	8.7	50.0
Street Side	Lumens	1958.9	412.7	2371.5
	% Fixture	41.3	8.7	50.0
Total	Lumens	3917.7	825.3	4743.1
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	0.4
10°-20°	69.6	1.5
20°-30°	148.1	3.1
30°-40°	284.6	6.0
40°-50°	527.0	11.1
50°-60°	890.2	18.8
60°-70°	1075.2	22.7
70°-80°	740.2	15.6
80°-90°	162.3	3.4
90°-100°	38.4	0.8
100°-110°	59.5	1.3
110°-120°	119.6	2.5
120°-130°	148.9	3.1
130°-140°	153.3	3.2
140°-150°	136.3	2.9
150°-160°	103.9	2.2
160°-170°	51.8	1.1
170°-180°	13.6	0.3
0°-90°	3917.7	82.6
0°-180°	4743.1	100.0

Coefficient of Utilization



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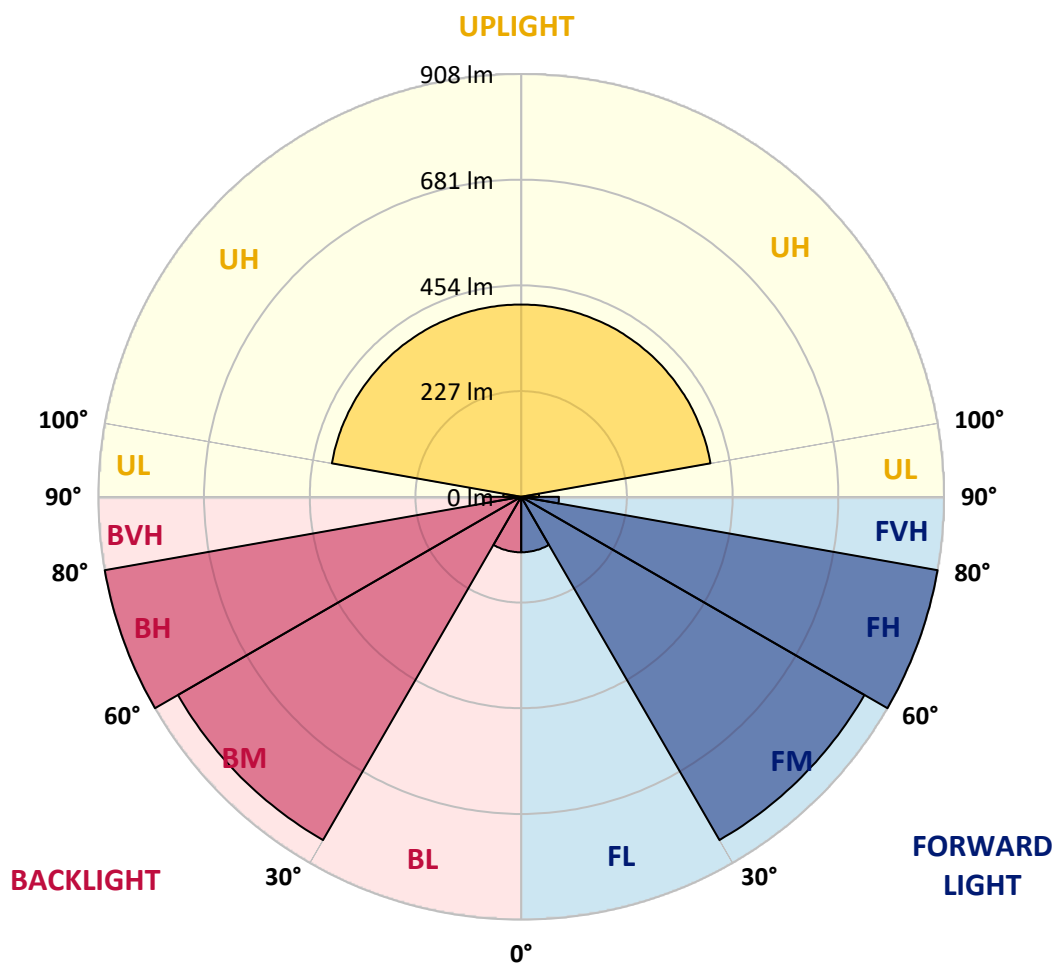
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.1	2.5			
FM	(30°-60°)	850.9	17.9			
FH	(60°-80°)	907.7	19.1			G1/1800
FVH	(80°-90°)	81.2	1.7			G1/100
BL	(0°-30°)	119.1	2.5	B1/500		
BM	(30°-60°)	850.9	17.9	B1/1000		
BH	(60°-80°)	907.7	19.1	B2/1000		G2/1000
BVH	(80°-90°)	81.2	1.7			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.7		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6	204.6
2.5°	206.3	206.3	206.3	206.3	207.1	207.1	207.1	207.1	207.1	207.1	206.3
5°	209.7	208.8	209.7	210.5	210.5	211.4	211.4	211.4	211.4	210.5	210.5
7.5°	214.0	214.0	214.8	215.7	216.5	215.7	215.7	214.8	214.8	214.8	214.8
10°	221.7	220.8	221.7	222.5	221.7	221.7	221.7	221.7	221.7	221.7	220.8
12.5°	230.2	230.2	230.2	230.2	229.4	230.2	229.4	230.2	230.2	230.2	229.4
15°	242.2	242.2	242.2	241.4	240.5	240.5	240.5	240.5	240.5	240.5	241.4
17.5°	258.5	257.6	256.8	255.1	254.2	253.3	253.3	253.3	254.2	254.2	254.2
20°	277.3	275.6	273.9	273.0	272.2	270.5	269.6	270.5	271.3	271.3	268.7
22.5°	300.4	297.8	295.3	294.4	291.0	290.1	289.3	288.4	288.4	289.3	288.4
25°	321.8	322.7	320.1	315.8	315.0	313.3	310.7	311.5	310.7	311.5	310.7
27.5°	348.3	350.1	347.5	343.2	340.6	338.1	336.4	336.4	337.2	339.8	337.2
30°	378.3	379.2	376.6	373.2	368.9	365.5	364.6	368.9	368.9	372.3	370.6
32.5°	410.0	409.1	405.7	404.8	399.7	399.7	400.6	404.0	410.0	412.5	411.7
35°	448.5	443.3	442.5	439.1	434.8	434.8	439.9	448.5	459.6	466.5	467.3
37.5°	483.6	481.9	481.0	475.9	473.3	478.4	488.7	504.1	513.5	527.2	527.2
40°	519.5	523.8	519.5	514.4	517.0	524.7	541.8	561.5	582.9	597.4	597.4
42.5°	554.6	562.3	558.0	553.8	560.6	578.6	600.0	633.4	676.1	695.0	694.1
45°	592.3	598.3	594.0	594.8	609.4	631.6	672.7	744.6	804.5	843.0	843.9
47.5°	633.4	634.2	631.6	635.9	657.3	700.1	755.7	843.9	903.0	949.2	952.6
50°	674.4	670.2	669.3	679.6	718.1	772.0	851.6	937.2	1030.5	1064.7	1067.3
52.5°	711.2	706.1	709.5	726.6	777.1	843.9	943.2	1088.7	1223.9	1324.9	1331.8
55°	746.3	740.3	748.9	776.3	843.0	932.9	1057.0	1238.5	1353.2	1419.1	1425.0
57.5°	776.3	774.6	788.3	822.5	904.7	1014.2	1150.3	1298.4	1383.1	1432.8	1438.7
60°	806.2	806.2	824.2	868.7	960.3	1060.4	1168.3	1297.5	1384.8	1426.8	1432.8
62.5°	827.6	829.4	852.5	898.7	976.6	1055.3	1162.3	1315.5	1427.6	1488.4	1497.8
65°	839.6	843.0	867.9	898.7	969.7	1050.2	1200.8	1330.0	1422.5	1486.7	1497.8
67.5°	841.3	848.2	860.2	883.3	943.2	1011.7	1139.2	1244.5	1321.5	1370.3	1378.0
70°	833.6	831.1	830.2	836.2	866.2	915.8	1027.9	1110.9	1187.1	1217.9	1223.9
72.5°	795.1	794.3	764.3	745.5	753.2	787.4	886.7	950.9	1000.5	1039.9	1044.2
75°	718.1	711.2	661.6	623.1	615.4	646.2	720.7	767.7	812.2	849.0	858.5
77.5°	599.1	582.0	531.5	486.1	471.6	494.7	550.3	582.9	615.4	658.2	658.2
80°	434.8	426.2	382.6	345.8	331.2	344.9	384.3	398.0	415.1	453.6	454.5
82.5°	280.7	271.3	242.2	219.1	206.3	214.8	231.1	237.1	251.6	274.7	273.9
85°	136.9	136.9	122.4	109.6	97.6	99.3	109.6	113.0	125.0	131.0	129.2
87.5°	34.2	37.7	33.4	30.8	27.4	27.4	30.8	30.8	37.7	37.7	35.9
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	38.2
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	48.8
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	59.8
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	74.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.2
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.6
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.8
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.6
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.6
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.4
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.6
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.4
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.6
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.2
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.2
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	201.8
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	205.6
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	210.8
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	215.8
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.2
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.6
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.6
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	191.6
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	173.6
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	159.8
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	150.6
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	143.8
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°	204.6
2.5°	206.3
5°	210.5
7.5°	214.8
10°	220.8
12.5°	230.2
15°	240.5
17.5°	255.1
20°	271.3
22.5°	288.4
25°	310.7
27.5°	339.8
30°	372.3
32.5°	410.8
35°	463.9
37.5°	527.2
40°	598.3
42.5°	695.0
45°	845.6
47.5°	949.2
50°	1064.7
52.5°	1327.5
55°	1424.2
57.5°	1439.6
60°	1434.5
62.5°	1497.8
65°	1496.1
67.5°	1376.3
70°	1226.5
72.5°	1051.0
75°	861.9
77.5°	653.9
80°	472.4
82.5°	275.6
85°	131.0
87.5°	39.4
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)