

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: P198459

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198459
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-SG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
RECTANGULAR DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY
SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4945.3 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U4 - G2

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



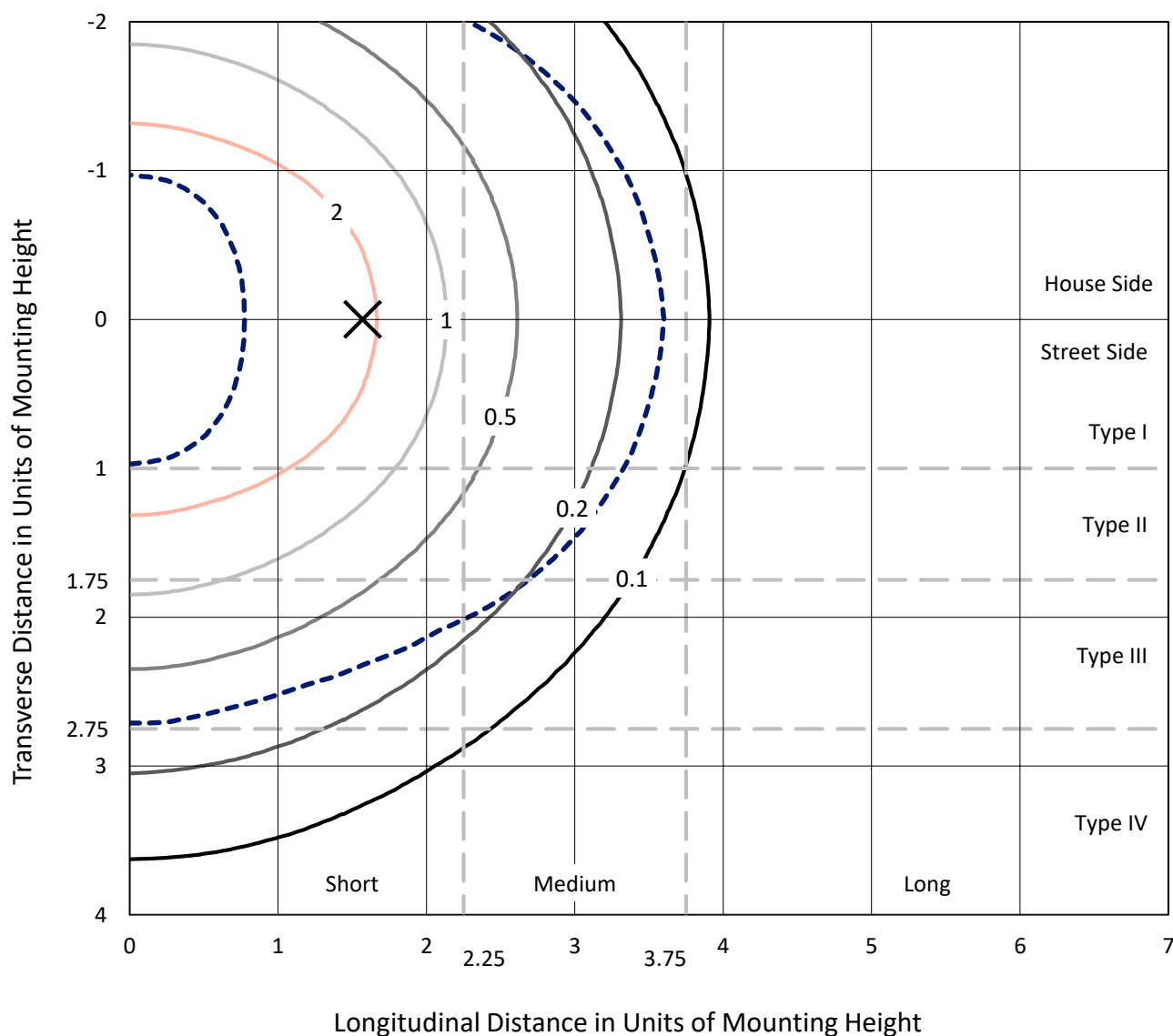
REPORT NUMBER: P198459

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

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

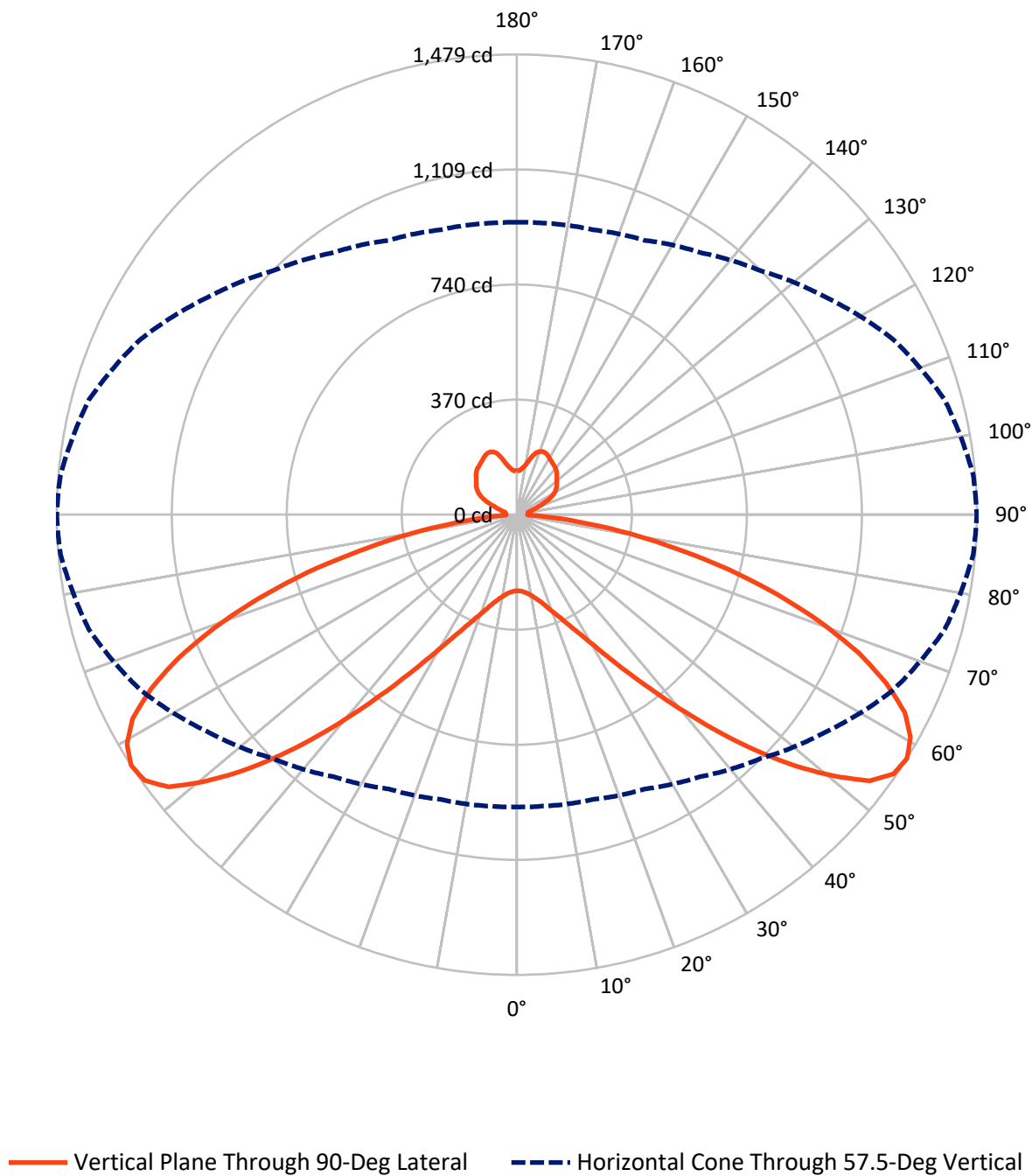


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P198459

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

Luminous Intensity Polar Plot



REPORT NUMBER: P198459

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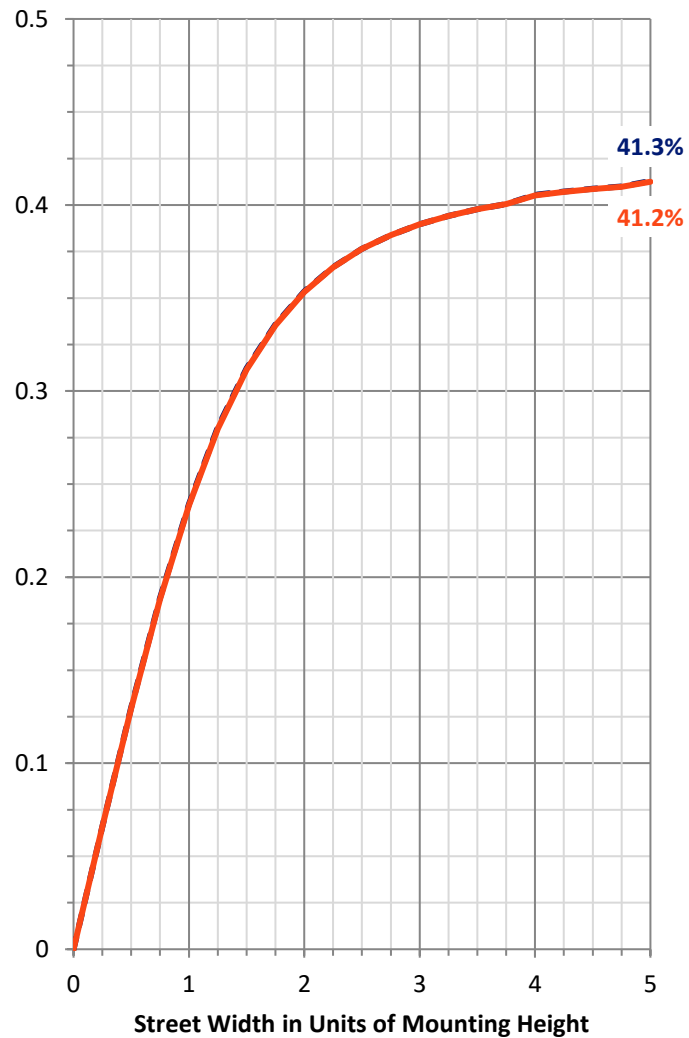
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2060.0	412.7	2472.7
	% Fixture	41.7	8.3	50.0
Street Side	Lumens	2060.0	412.7	2472.7
	% Fixture	41.7	8.3	50.0
Total	Lumens	4120.0	825.3	4945.3
	% Fixture	83.3	16.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.3	0.5
10°-20°	84.0	1.7
20°-30°	183.3	3.7
30°-40°	368.0	7.4
40°-50°	687.2	13.9
50°-60°	1012.2	20.5
60°-70°	1019.7	20.6
70°-80°	608.7	12.3
80°-90°	132.6	2.7
90°-100°	38.4	0.8
100°-110°	59.5	1.2
110°-120°	119.6	2.4
120°-130°	148.9	3.0
130°-140°	153.3	3.1
140°-150°	136.3	2.8
150°-160°	103.9	2.1
160°-170°	51.8	1.0
170°-180°	13.6	0.3
0°-90°	4120.0	83.3
0°-180°	4945.3	100.0

Coefficient of Utilization



REPORT NUMBER: P198459

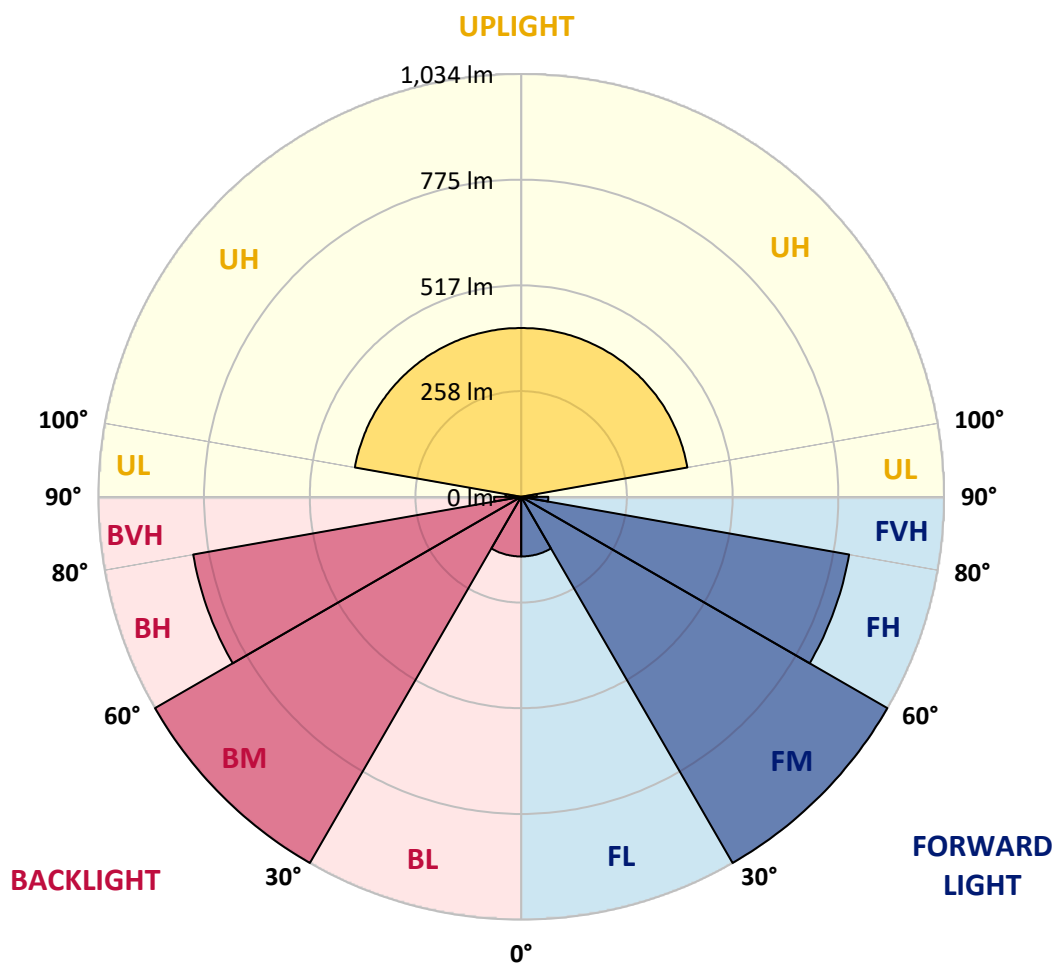
CATALOG NUMBER: TT-C4-LED-E1-RW-SG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.8	2.9			
FM	(30°-60°)	1033.7	20.9			
FH	(60°-80°)	814.2	16.5			G1/1800
FVH	(80°-90°)	66.3	1.3			G1/100
BL	(0°-30°)	145.8	2.9	B1/500		
BM	(30°-60°)	1033.7	20.9	B2/2500		
BH	(60°-80°)	814.2	16.5	B2/1000		G2/1000
BVH	(80°-90°)	66.3	1.3			G1/100
UL	(90°-100°)	38.4	0.8		U2/50	
UH	(100°-180°)	412.7	8.3		U3/500	

BUG Rating: B2-U4-G2

Type III Short



REPORT NUMBER: P198459

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	244.8	244.8	244.8	244.8	244.8	244.8	244.8	244.8	244.8	244.8	244.8
2.5°	246.5	246.5	246.5	246.5	246.5	245.6	246.5	245.6	245.6	245.6	245.6
5°	249.2	249.2	249.2	250.1	250.1	250.1	250.1	249.2	250.1	249.2	250.1
7.5°	255.5	255.5	255.5	255.5	255.5	255.5	256.4	255.5	256.4	255.5	255.5
10°	263.5	263.5	263.5	263.5	264.4	264.4	264.4	265.3	265.3	265.3	265.3
12.5°	275.1	275.1	275.1	275.1	275.1	275.1	276.0	276.0	276.9	276.9	276.9
15°	290.3	290.3	289.4	289.4	289.4	290.3	290.3	292.1	291.2	291.2	291.2
17.5°	309.1	308.2	308.2	308.2	308.2	308.2	308.2	310.0	310.0	310.0	310.9
20°	329.6	331.4	330.5	328.7	328.7	328.7	329.6	331.4	331.4	334.1	335.0
22.5°	358.2	359.1	357.3	356.4	353.7	353.7	356.4	357.3	360.9	360.0	360.9
25°	388.6	387.7	386.8	385.0	385.0	385.0	386.8	389.5	392.1	394.8	394.8
27.5°	422.5	421.6	420.7	419.8	418.0	420.7	422.5	428.8	430.5	436.8	435.0
30°	460.0	460.9	459.1	458.2	457.3	458.2	465.4	474.3	481.5	485.9	486.8
32.5°	502.0	502.9	502.0	500.2	502.0	506.5	515.4	527.0	541.3	549.4	552.0
35°	548.5	550.2	548.5	550.2	552.0	560.1	576.2	594.0	619.0	626.2	630.6
37.5°	598.5	596.7	595.8	598.5	606.5	623.5	645.8	677.1	703.0	724.4	724.4
40°	648.5	649.4	650.3	650.3	665.5	688.7	725.3	767.3	805.7	833.4	834.3
42.5°	702.1	702.1	702.1	710.1	728.9	765.5	812.9	874.5	927.2	953.1	956.7
45°	756.6	760.2	761.9	772.7	800.4	846.8	909.3	983.5	1050.5	1085.3	1083.5
47.5°	810.2	814.7	818.2	834.3	871.8	921.8	999.6	1088.9	1164.8	1204.1	1207.7
50°	865.6	862.9	870.0	889.7	931.7	996.0	1079.1	1181.8	1268.4	1316.7	1320.2
52.5°	902.2	901.3	908.4	929.0	978.1	1050.5	1146.0	1263.1	1356.9	1406.9	1421.2
55°	928.1	927.2	935.2	959.4	1013.0	1089.8	1193.4	1316.7	1411.3	1463.2	1470.3
57.5°	939.7	940.6	947.7	972.8	1028.1	1108.5	1215.7	1334.5	1424.7	1473.0	1479.2
60°	937.9	938.8	945.1	969.2	1023.7	1101.4	1205.0	1316.7	1402.4	1447.1	1454.2
62.5°	919.2	918.3	923.6	944.2	992.4	1064.8	1163.9	1269.3	1350.6	1391.7	1399.7
65°	879.9	879.0	879.0	896.8	937.9	999.6	1093.3	1187.1	1263.1	1302.4	1304.2
67.5°	815.5	815.5	813.8	824.5	854.8	914.7	995.1	1080.8	1142.5	1179.1	1184.5
70°	728.9	730.7	724.4	730.7	755.7	803.0	874.5	943.3	991.5	1033.5	1036.2
72.5°	634.2	627.1	624.4	626.2	644.9	675.3	736.9	795.0	839.7	868.2	873.6
75°	511.8	511.8	510.0	507.4	518.1	548.5	589.5	636.9	674.4	694.1	701.2
77.5°	392.1	395.7	390.4	390.4	398.4	421.6	457.3	483.3	510.0	523.4	519.9
80°	278.7	277.8	275.1	273.3	282.3	295.7	324.3	339.4	347.5	360.0	365.3
82.5°	172.4	174.2	176.9	168.8	172.4	184.9	200.1	208.1	211.7	217.1	216.2
85°	84.9	85.8	86.6	87.5	87.5	92.0	100.9	104.5	107.2	109.9	108.1
87.5°	31.3	29.5	28.6	28.6	28.6	29.5	33.9	33.1	34.8	34.8	36.6
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	38.0
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	49.0
107.5°	72.0	72.0	70.0	67.0	66.0	68.0	68.0	66.0	60.0	59.0	60.0
110°	86.0	86.0	89.0	85.0	86.0	87.0	84.0	84.0	78.0	74.0	75.0

REPORT NUMBER: P198459

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	101.0	102.0	108.0	107.0	110.0	107.0	102.0	105.0	100.0	95.0	94.0
115°	121.0	122.0	128.0	128.0	129.0	124.0	121.0	125.0	123.0	116.0	113.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.0	138.0	141.0	139.0	133.0	129.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	150.0	153.0	148.0	145.0	142.0
122.5°	161.0	162.0	164.0	154.0	155.0	158.0	159.0	162.0	155.0	153.0	150.0
125°	169.0	169.0	172.0	163.0	165.0	168.0	167.0	168.0	163.0	160.0	158.0
127.5°	177.0	177.0	181.0	171.0	176.0	178.0	176.0	175.0	173.0	166.0	163.0
130°	187.0	188.0	191.0	179.0	186.0	186.0	183.0	183.0	184.0	171.0	169.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	190.0	192.0	192.0	179.0	176.0
135°	210.0	210.0	209.0	192.0	199.0	201.0	196.0	201.0	199.0	185.0	184.0
137.5°	221.0	219.0	213.0	197.0	205.0	208.0	203.0	210.0	204.0	191.0	190.0
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	202.0
147.5°	230.0	227.0	219.0	207.0	216.0	229.0	239.0	229.0	212.0	204.0	206.0
150°	224.0	221.0	220.0	214.0	222.0	235.0	242.0	232.0	214.0	210.0	211.0
152.5°	216.0	214.0	221.0	220.0	230.0	241.0	242.0	235.0	219.0	215.0	216.0
155°	208.0	207.0	219.0	224.0	237.0	243.0	238.0	234.0	224.0	220.0	219.0
157.5°	203.0	203.0	216.0	224.0	234.0	235.0	228.0	229.0	226.0	222.0	219.0
160°	199.0	198.0	210.0	213.0	219.0	219.0	215.0	219.0	221.0	218.0	215.0
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	192.0
167.5°	154.0	152.0	156.0	155.0	159.0	159.0	160.0	165.0	168.0	172.0	174.0
170°	142.0	141.0	145.0	144.0	147.0	147.0	148.0	152.0	155.0	159.0	160.0
172.5°	137.0	135.0	139.0	138.0	141.0	141.0	141.0	145.0	146.0	149.0	151.0
175°	136.0	134.0	137.0	137.0	139.0	139.0	138.0	141.0	141.0	143.0	144.0
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

(END OF REPORT)