Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P821571

Luminaire Tested: **TT-D1-750-12VDC-WQ-UPL**

Issue Date: 7/23/2020

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P821571
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-3) AND
Test Lab:	INNOVATION CENTER
Issue Date:	7/23/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D1-750-12VDC-WQ-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT WITH UPLIGHT
	5000K, 70 CRI LEDS AND WIDE DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4778.3 lumens
Efficiency:	N/A
Efficacy:	170.7 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type V - Short
BUG Rating:	B2 - U4 - G1

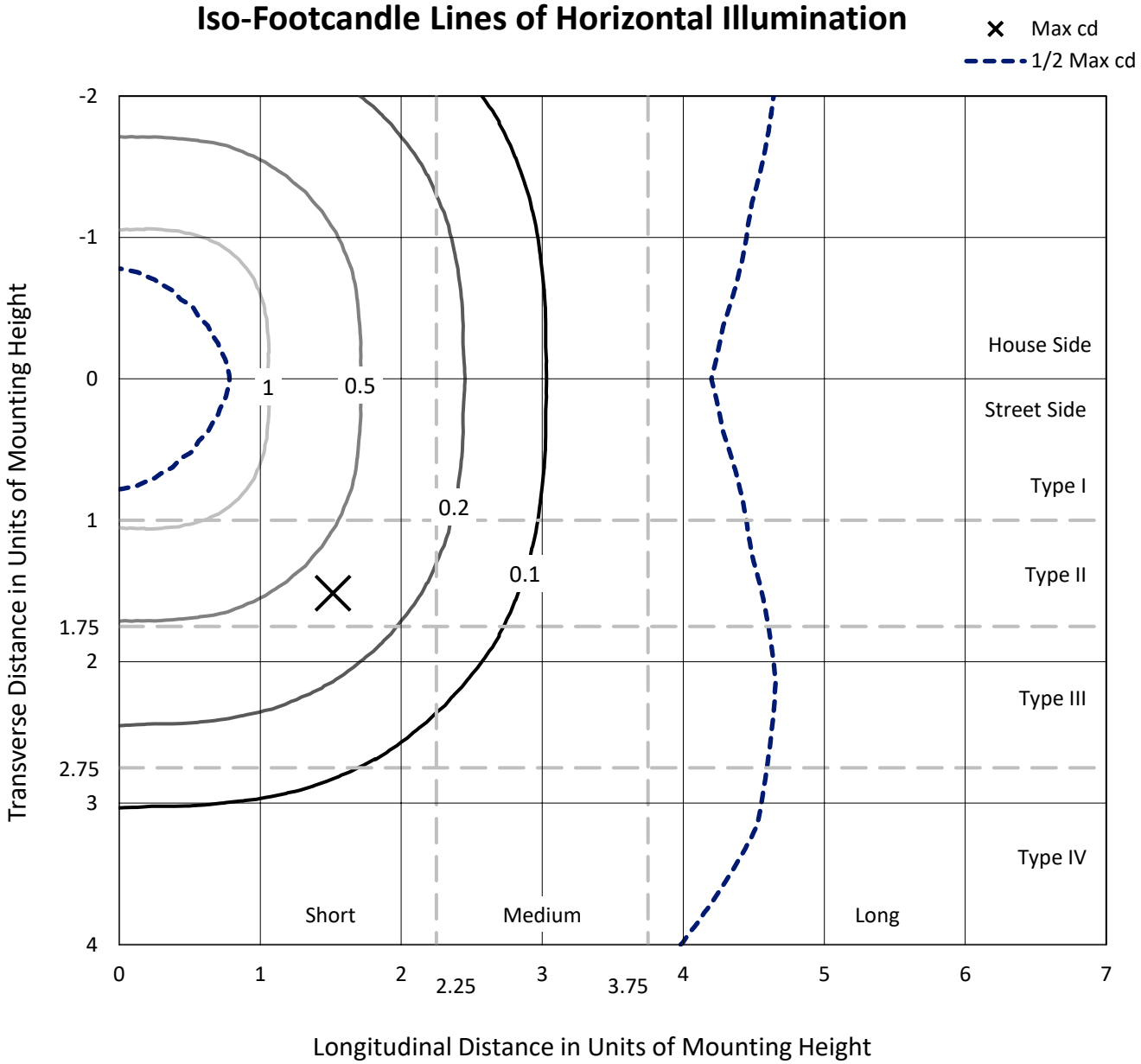
Input Watts (W):	28
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Iso-Footcandle Lines of Horizontal Illumination



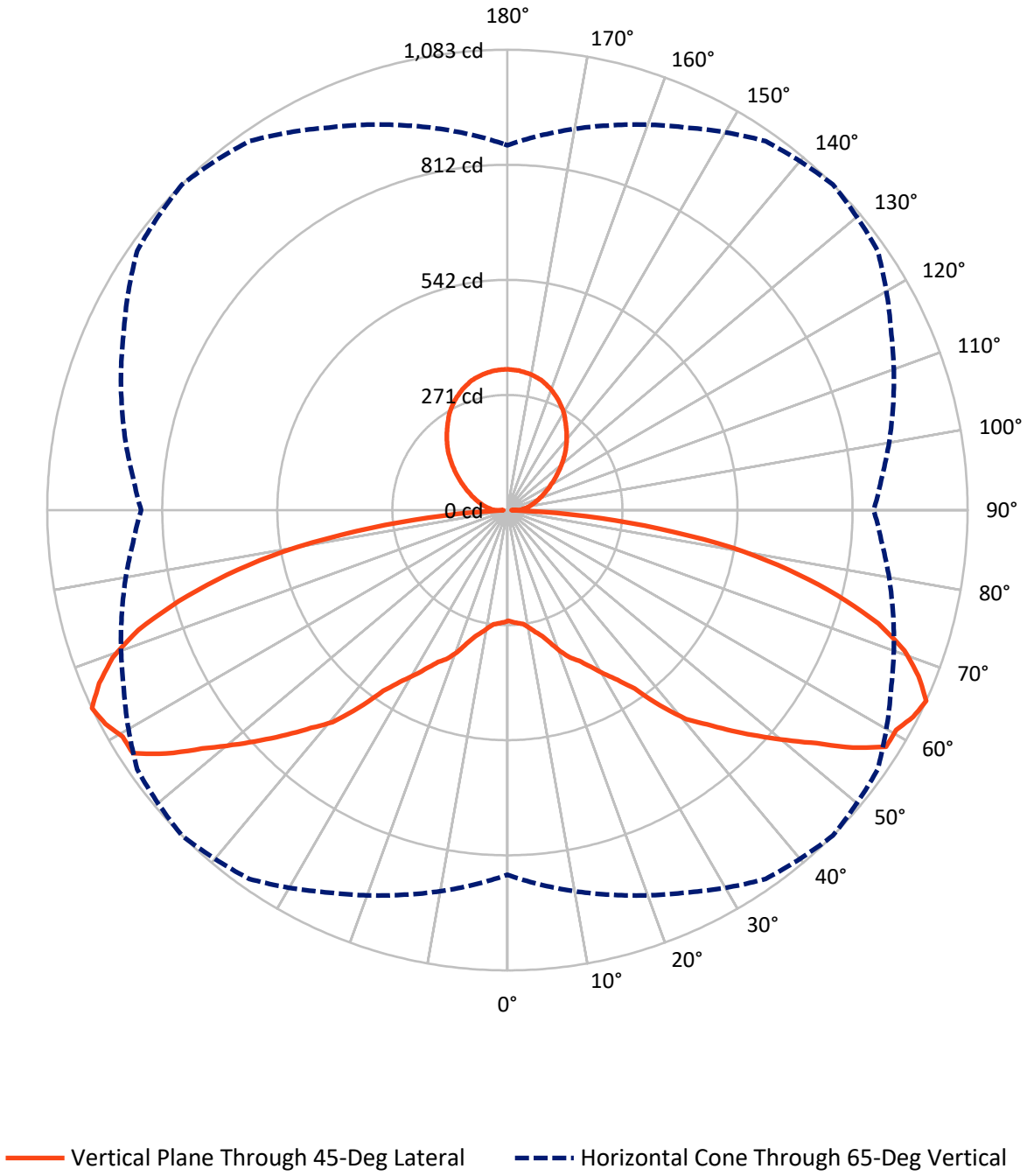
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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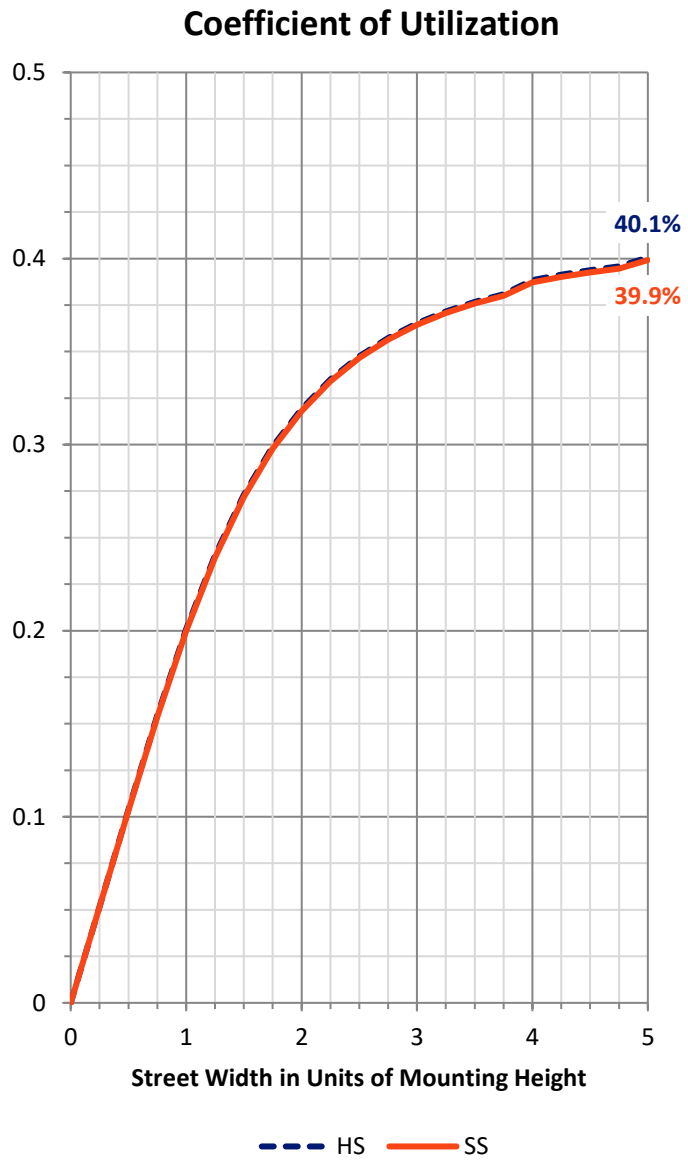
REPORT NUMBER: P821571
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1939.2	450.0	2389.2
	% Fixture	40.6	9.4	50.0
Street Side	Lumens	1939.2	450.0	2389.2
	% Fixture	40.6	9.4	50.0
Total	Lumens	3878.3	900.0	4778.3
	% Fixture	81.2	18.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.5
10°-20°	89.4	1.9
20°-30°	183.6	3.8
30°-40°	326.2	6.8
40°-50°	549.9	11.5
50°-60°	811.2	17.0
60°-70°	952.0	19.9
70°-80°	741.7	15.5
80°-90°	198.2	4.1
90°-100°	46.1	1.0
100°-110°	71.4	1.5
110°-120°	99.4	2.1
120°-130°	128.8	2.7
130°-140°	150.0	3.1
140°-150°	152.1	3.2
150°-160°	131.9	2.8
160°-170°	89.0	1.9
170°-180°	31.3	0.7
0°-90°	3878.3	81.2
0°-180°	4778.3	100.0



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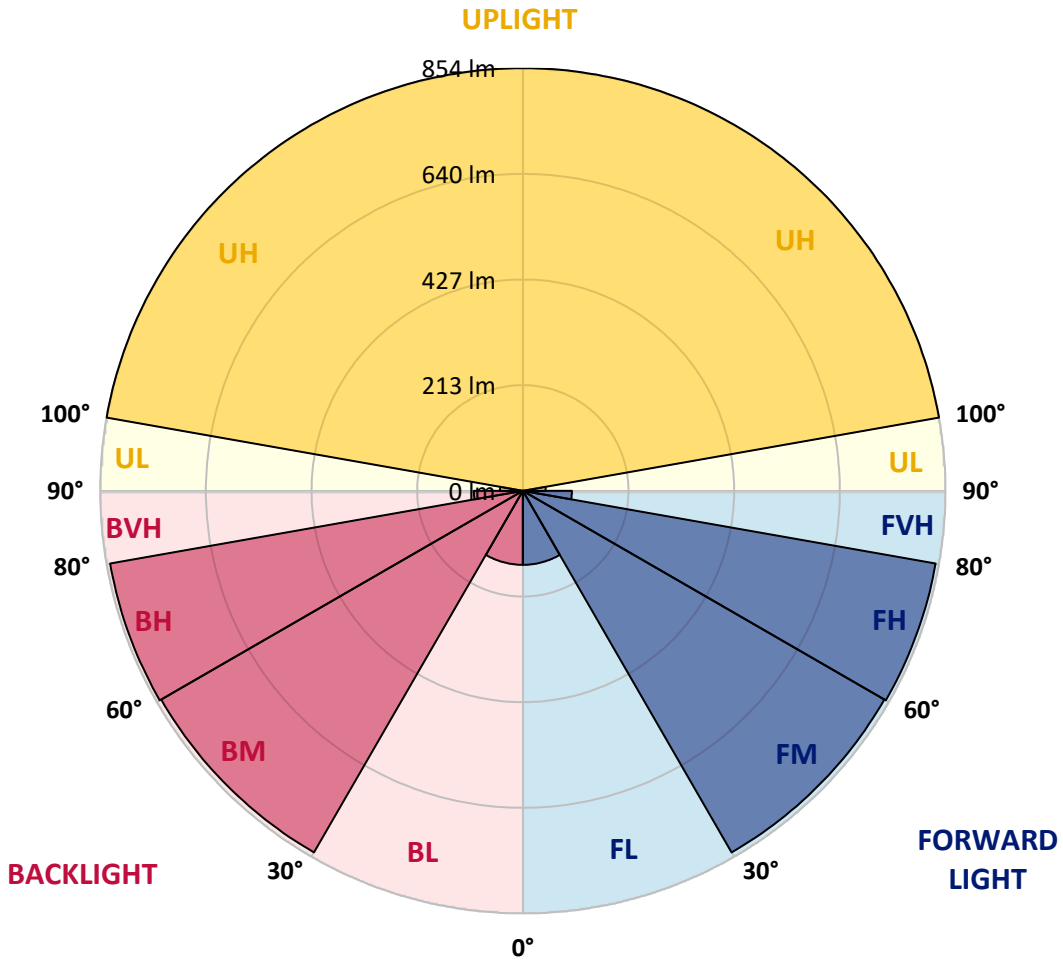
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	149.5	3.1			
FM	(30°-60°)	843.7	17.7			
FH	(60°-80°)	846.9	17.7			G1/1800
FVH	(80°-90°)	99.1	2.1			G1/100
BL	(0°-30°)	149.5	3.1	B1/500		
BM	(30°-60°)	843.7	17.7	B1/1000		
BH	(60°-80°)	846.9	17.7	B2/1000		G1/1800
BVH	(80°-90°)	99.1	2.1			G1/100
UL	(90°-100°)	46.1	1.0		U2/50	
UH	(100°-180°)	853.9	17.9		U4/1000	

BUG Rating: B2-U4-G1
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7	260.7
2.5°	265.0	265.0	265.0	264.4	264.4	264.4	264.4	265.0	265.0	265.0	265.0
5°	271.1	271.1	269.9	268.7	267.4	267.4	268.0	268.7	269.3	270.5	270.5
7.5°	274.7	274.7	274.1	272.9	271.1	271.1	271.7	272.9	273.5	273.5	272.9
10°	279.6	280.2	282.1	282.7	281.4	281.4	282.1	282.7	281.4	279.6	279.6
12.5°	291.2	291.8	294.2	296.1	296.1	294.8	295.5	296.7	293.6	290.6	291.2
15°	307.6	307.6	308.2	310.1	308.9	307.6	308.9	309.5	307.6	307.0	308.2
17.5°	329.6	329.6	325.9	329.0	329.6	329.0	330.2	327.1	325.3	327.7	329.0
20°	353.3	350.9	349.1	351.5	356.4	354.5	357.0	350.3	348.5	349.7	350.3
22.5°	368.6	370.4	371.6	372.8	379.5	377.1	379.5	372.2	371.0	368.6	366.7
25°	386.8	388.7	396.0	392.3	396.6	392.9	396.0	391.7	394.1	386.8	386.8
27.5°	407.5	411.2	415.5	413.6	419.1	417.3	419.1	413.0	413.6	410.6	409.4
30°	435.6	435.6	434.4	438.0	447.8	446.5	447.1	439.2	433.7	434.4	436.8
32.5°	463.6	459.9	461.8	472.7	478.8	476.4	477.6	473.9	461.8	459.3	461.2
35°	489.8	495.3	499.5	508.7	517.2	516.0	515.4	509.3	501.4	491.6	488.6
37.5°	530.6	536.7	548.3	564.7	579.9	583.0	575.1	567.2	548.9	534.9	527.6
40°	584.2	584.8	598.2	629.9	643.9	646.3	642.1	628.7	600.7	584.8	584.2
42.5°	631.1	626.9	648.8	675.6	688.4	689.6	686.6	675.6	648.8	626.2	630.5
45°	667.7	667.7	693.9	715.2	735.9	740.8	735.3	712.1	694.5	668.3	666.5
47.5°	701.2	710.3	732.2	758.4	787.7	794.4	787.7	760.3	730.4	710.9	700.6
50°	741.4	752.3	768.2	809.0	841.9	851.0	841.3	811.4	768.2	751.7	745.6
52.5°	788.3	797.4	822.4	873.6	897.9	911.3	903.4	874.8	823.6	798.6	793.8
55°	844.3	835.8	874.8	924.1	969.2	986.9	971.0	925.4	880.9	835.8	844.3
57.5°	873.0	863.2	918.0	965.0	1027.7	1050.8	1031.4	968.6	918.0	866.3	872.4
60°	875.4	879.7	921.1	997.8	1041.1	1050.8	1044.8	1003.3	922.9	883.3	871.7
62.5°	868.1	894.3	929.6	1008.8	1047.8	1071.6	1050.8	1010.0	933.3	898.6	868.7
65°	858.3	884.5	936.9	993.0	1059.4	1083.1	1063.6	996.0	939.4	884.5	862.0
67.5°	841.3	832.2	896.7	971.7	1029.5	1043.5	1031.4	972.9	896.1	830.9	843.1
70°	787.1	779.2	834.6	916.8	972.3	991.8	977.1	918.0	835.8	781.0	788.3
72.5°	706.7	709.1	762.7	841.3	901.0	913.2	905.3	840.7	765.7	712.1	702.4
75°	612.8	618.9	670.1	741.4	795.6	802.9	795.0	744.4	669.5	622.6	609.8
77.5°	503.8	512.9	554.4	625.6	661.6	678.0	665.2	627.5	557.4	515.4	502.6
80°	390.5	393.5	422.8	480.0	527.6	538.5	526.3	481.9	426.4	394.8	385.6
82.5°	255.9	260.7	286.9	330.8	361.9	358.8	361.9	327.1	290.0	259.5	244.3
85°	113.9	123.7	141.3	162.0	182.1	187.6	182.1	164.5	141.3	121.2	118.8
87.5°	7.9	9.1	11.0	11.6	12.8	9.7	9.7	9.7	8.5	9.7	7.9
90°	32.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
92.5°	37.6	37.1	37.1	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
95°	42.7	42.7	42.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
97.5°	48.3	48.3	48.3	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
100°	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
102.5°	60.5	60.5	60.5	60.5	60.5	60.5	60.5	61.0	60.5	60.5	60.5
105°	67.1	67.1	67.1	67.1	67.1	67.1	67.1	68.1	67.1	67.1	67.1
107.5°	74.2	74.2	74.7	74.7	74.7	74.7	74.7	75.2	74.7	74.7	74.7
110°	81.3	81.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.9	89.9	90.9	90.9	90.9	*90.9*	91.4	91.4	90.9	90.9	90.9
115°	98.6	98.6	99.6	99.6	99.6	*99.6*	100.6	100.6	99.6	99.6	99.6
117.5°	108.8	108.8	109.2	109.8	109.8	*109.8*	110.8	110.8	109.8	109.8	109.8
120°	118.9	118.9	118.9	119.9	119.9	*119.9*	121.0	121.0	119.9	119.9	119.9
122.5°	130.6	130.6	131.1	131.6	131.6	*131.6*	132.6	132.6	132.1	132.1	131.6
125°	142.3	142.3	143.3	143.3	143.3	*143.3*	144.3	144.3	144.3	144.3	143.3
127.5°	155.0	155.0	156.0	156.0	156.0	*156.0*	157.0	157.0	157.0	157.0	156.0
130°	167.7	167.7	168.7	168.7	168.7	*168.7*	169.7	169.7	169.7	169.7	168.7
132.5°	180.9	180.9	181.4	181.4	181.4	*181.9*	182.4	182.4	182.4	182.4	181.9
135°	194.1	194.1	194.1	194.1	194.1	*195.1*	195.1	195.1	195.1	195.1	195.1
137.5°	206.8	206.3	206.8	206.3	206.8	*207.3*	207.3	207.3	207.3	207.3	207.3
140°	219.5	218.5	219.5	218.5	219.5	*219.5*	219.5	219.5	219.5	219.5	219.5
142.5°	231.2	230.7	231.2	230.2	231.2	*231.2*	231.2	231.2	231.2	231.2	231.2
145°	242.9	242.9	242.9	241.9	242.9	*242.9*	242.9	242.9	242.9	242.9	242.9
147.5°	255.1	254.6	255.1	254.1	255.1	*255.1*	255.1	255.1	255.1	255.1	255.1
150°	267.3	266.3	267.3	266.3	267.3	*267.3*	267.3	267.3	267.3	267.3	267.3
152.5°	277.0	276.5	277.5	276.5	277.0	*277.0*	277.5	277.0	277.0	277.0	277.0
155°	286.6	286.6	287.6	286.6	286.6	*286.6*	287.6	286.6	286.6	286.6	286.6
157.5°	294.8	294.8	295.8	294.8	294.8	*294.8*	295.8	294.8	294.8	294.8	294.8
160°	302.9	302.9	303.9	302.9	302.9	*302.9*	303.9	302.9	302.9	302.9	302.9
162.5°	309.5	309.5	310.5	309.5	309.5	*309.5*	310.5	309.5	309.5	309.5	309.5
165°	316.1	316.1	317.1	316.1	316.1	*316.1*	317.1	316.1	316.1	316.1	316.1
167.5°	320.2	320.2	321.2	320.2	320.2	*320.2*	321.2	320.2	320.2	320.2	320.2
170°	324.2	324.2	325.2	324.2	324.2	*324.2*	325.2	324.2	324.2	324.2	324.2
172.5°	326.8	326.8	327.8	326.8	327.2	*326.8*	327.8	326.8	326.8	326.8	326.8
175°	329.3	329.3	330.3	329.3	330.3	*329.3*	330.3	329.3	329.3	329.3	329.3
177.5°	330.3	330.3	330.8	330.3	330.8	*330.3*	330.8	330.3	330.3	330.3	330.3
180°	331.3	331.3	331.3	331.3	331.3	*331.3*	331.3	331.3	331.3	331.3	331.3

(END OF REPORT)