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: P197802

Luminaire Tested: **TT-C2-LED-E1-WQ-CG-LWR-LW**

Issue Date: 3/3/2020

Report Generated By E9970913

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P197802
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115528)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-C2-LED-E1-WQ-CG-LWR-LW
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE
	WIDE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source:	(168) 4000K CCT, 70 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3842.7 lumens
Efficiency:	N/A
Efficacy:	113.0 lumens/watt
Luminous Opening:	Circular (Dia: 1.12' x H: 0')
IES Classification:	Type V - Short - Full Cutoff
BUG Rating:	B2 - U0 - G1

Input Watts (W):	34
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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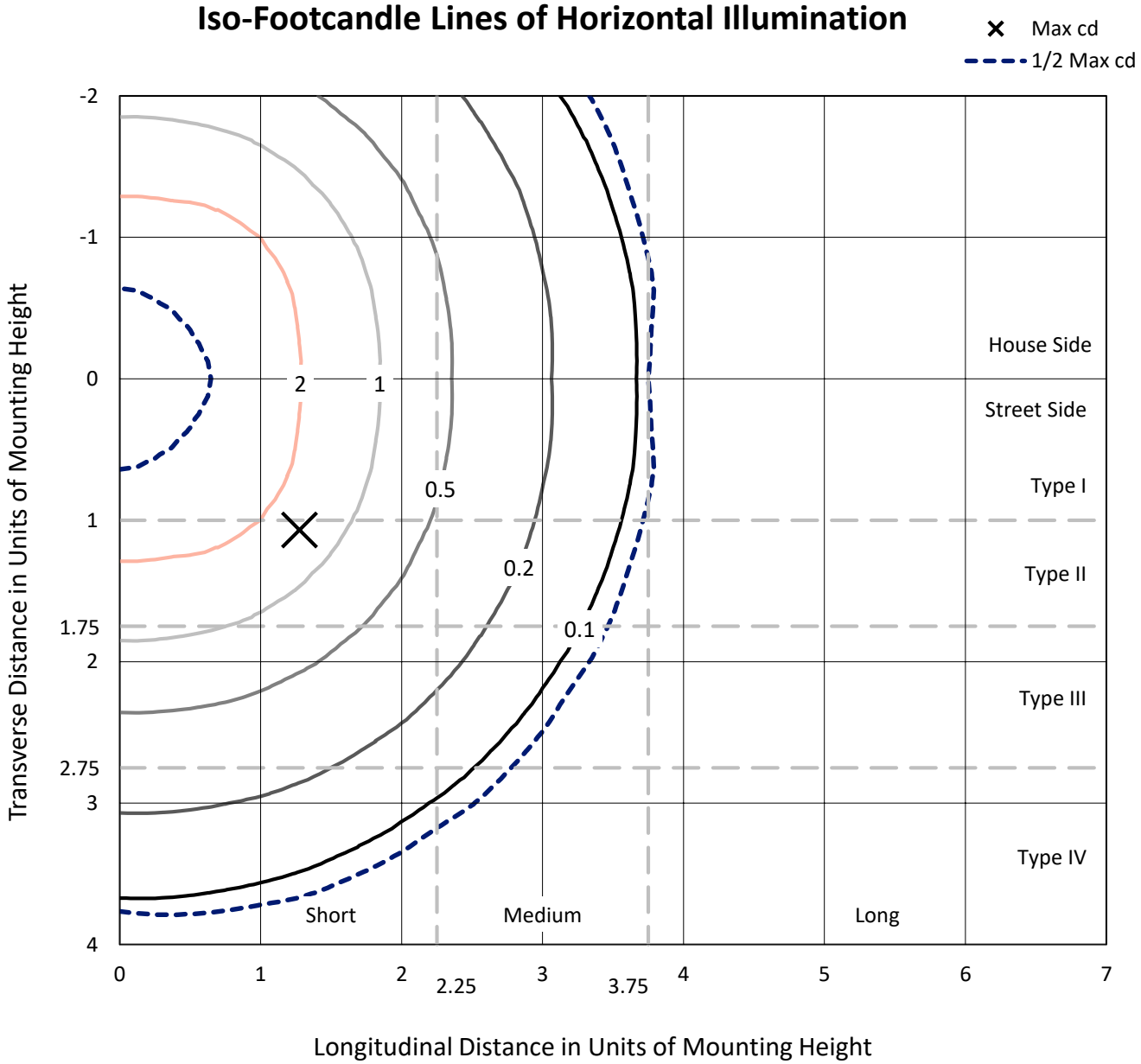
Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
Type V - Short - Full Cutoff

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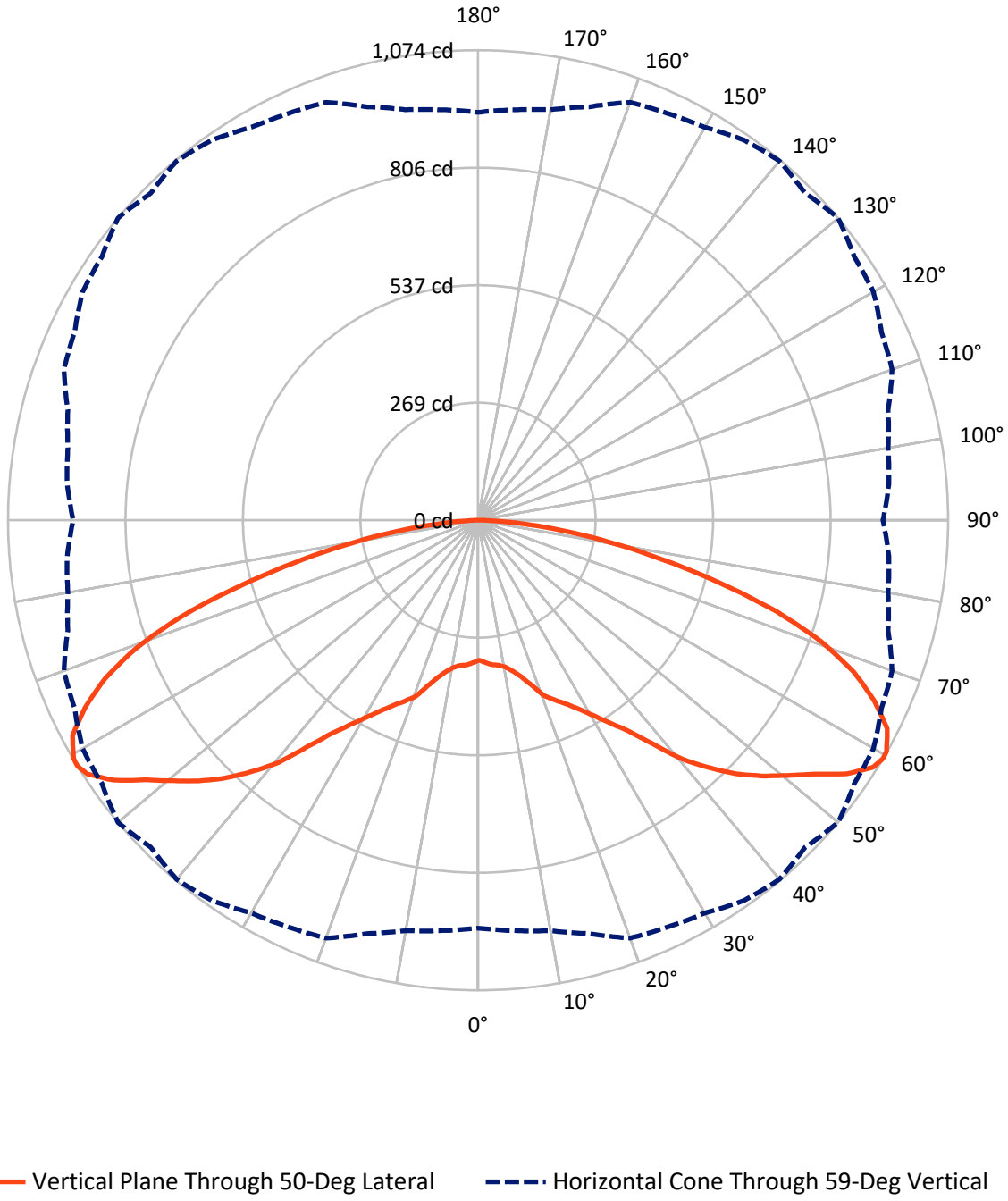
Luminous Intensity Polar Plot



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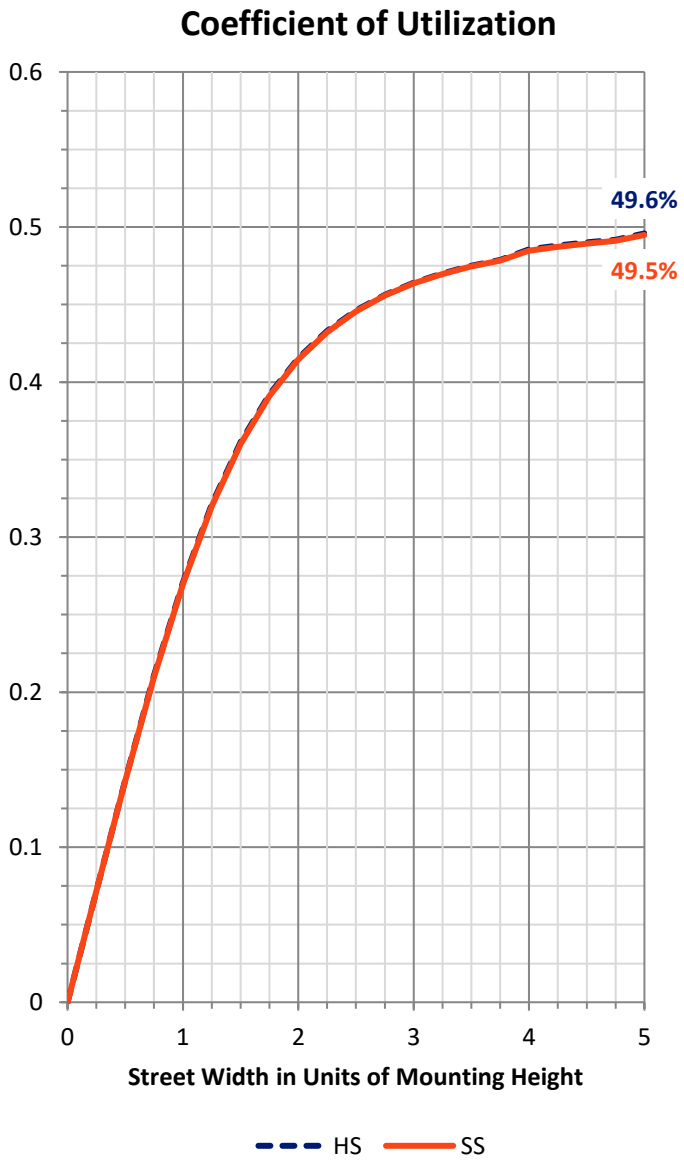
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.3	0.0	1921.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1921.3	0.0	1921.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3842.7	0.0	3842.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.8
10°-20°	107.3	2.8
20°-30°	216.0	5.6
30°-40°	371.7	9.7
40°-50°	613.6	16.0
50°-60°	864.0	22.5
60°-70°	924.3	24.1
70°-80°	587.1	15.3
80°-90°	126.9	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3842.7	100.0
0°-180°	3842.7	100.0



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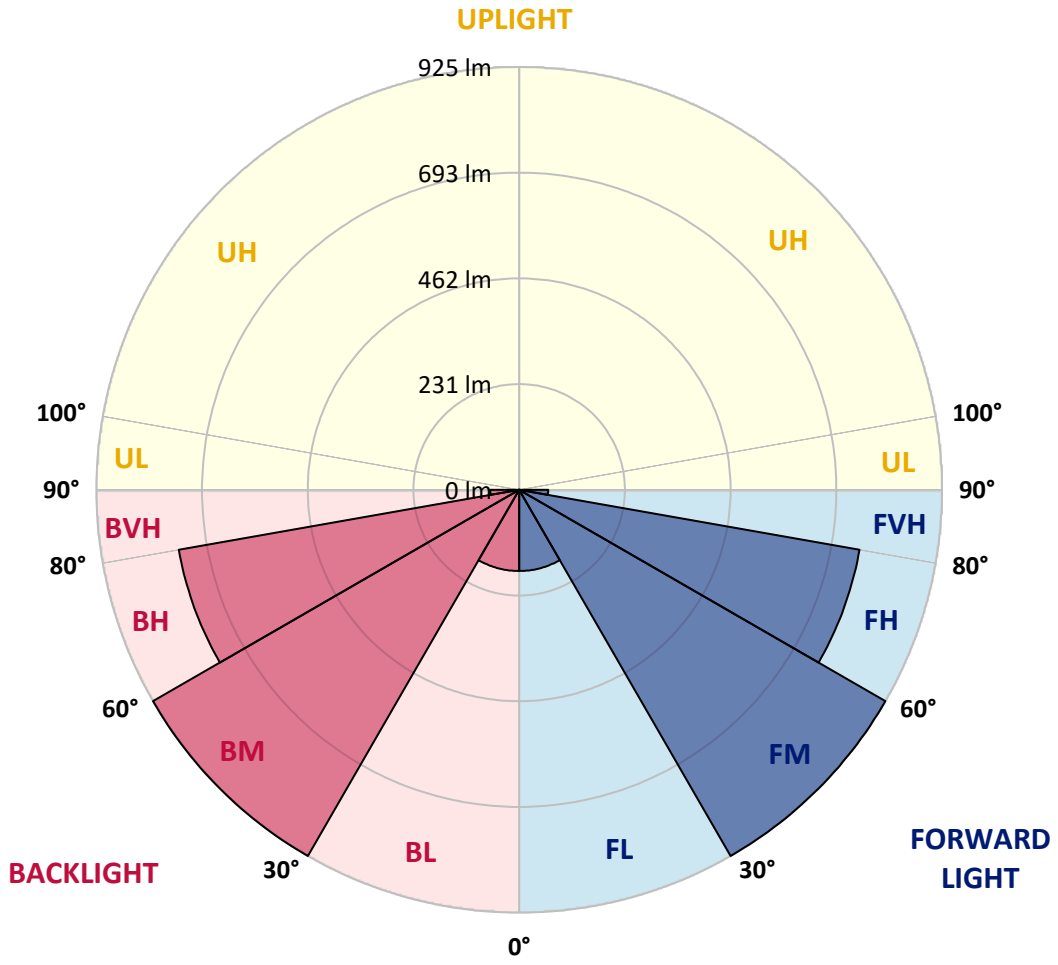
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	177.5	4.6			
FM	(30°-60°)	924.6	24.1			
FH	(60°-80°)	755.7	19.7			G1/1800
FVH	(80°-90°)	63.4	1.7			G1/100
BL	(0°-30°)	177.5	4.6	B1/500		
BM	(30°-60°)	924.6	24.1	B1/1000		
BH	(60°-80°)	755.7	19.7	B2/1000		G1/1800
BVH	(80°-90°)	63.4	1.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	*319.8*
2.5°	326.6	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8	*325.8*
5°	328.3	328.3	329.2	329.2	330.0	330.0	330.0	330.9	330.9	330.9	*331.7*
7.5°	331.7	330.9	331.7	331.7	331.7	332.6	332.6	332.6	333.4	334.3	*334.3*
10°	342.8	341.9	342.8	342.8	342.8	341.1	341.1	341.9	341.1	341.1	*341.1*
12.5°	355.5	355.5	356.4	357.2	357.2	356.4	355.5	354.7	353.8	353.8	*353.8*
15°	367.4	368.3	369.1	370.8	371.7	371.7	372.5	373.4	372.5	372.5	*371.7*
17.5°	386.2	387.9	388.7	389.6	389.6	389.6	391.3	393.8	396.4	398.1	*396.4*
20°	417.6	418.5	420.2	420.2	419.3	420.2	421.9	422.7	424.4	426.1	*427.0*
22.5°	438.9	440.6	443.1	443.1	442.3	443.1	444.8	444.8	443.1	444.0	*445.7*
25°	456.7	457.6	459.3	460.2	461.0	465.3	468.7	467.8	464.4	465.3	*464.4*
27.5°	478.0	479.7	481.4	481.4	481.4	484.0	487.4	489.1	491.6	490.8	*488.2*
30°	506.1	508.6	509.5	508.6	510.3	512.9	512.0	513.7	518.0	522.2	*517.1*
32.5°	528.2	530.7	533.3	536.7	542.7	546.1	544.4	545.2	547.8	551.2	*551.2*
35°	561.4	565.6	567.3	568.2	574.1	580.9	586.0	590.3	589.4	586.9	*591.1*
37.5°	611.5	615.8	617.5	620.9	628.6	630.3	637.9	648.1	651.5	648.1	*648.1*
40°	665.1	669.4	677.9	685.5	697.5	700.0	709.4	713.6	722.1	723.0	*717.9*
42.5°	709.4	714.5	716.2	728.9	745.1	757.0	767.2	768.1	774.0	779.1	*773.2*
45°	757.0	761.2	763.8	775.7	784.2	798.7	814.8	821.6	824.2	823.3	*826.7*
47.5°	801.2	807.2	809.7	819.1	829.3	841.2	850.6	870.1	874.4	865.9	*873.5*
50°	828.4	835.2	841.2	861.6	879.5	888.8	896.5	912.6	922.0	914.3	*916.9*
52.5°	871.0	872.7	877.8	886.3	912.6	944.1	952.6	957.7	971.3	975.6	*963.7*
55°	928.8	934.8	939.0	950.1	961.1	983.2	1020.7	1027.5	1024.1	1044.5	*1023.2*
57.5°	937.3	948.4	961.1	985.8	1007.9	1014.7	1036.8	1063.2	1060.6	1063.2	*1064.9*
59°	*932.2*	*941.6*	*952.6*	*978.1*	*1016.4*	*1025.8*	*1036.8*	*1060.6*	*1071.7*	*1057.2*	*1074.3*
60°	933.9	940.7	946.7	967.1	1007.9	1029.2	1036.0	1050.4	1071.7	1052.1	*1072.6*
62.5°	927.1	935.6	942.4	954.3	973.9	1003.7	1030.0	1023.2	1053.8	1038.5	*1049.6*
65°	890.5	899.9	913.5	930.5	953.5	962.0	988.3	1002.8	996.0	1013.0	*995.2*
67.5°	829.3	837.8	846.3	866.7	892.2	903.3	910.1	936.5	927.1	946.7	*926.3*
70°	747.6	757.0	768.9	780.0	802.9	812.3	819.9	831.8	835.2	835.2	*833.5*
72.5°	649.8	657.5	665.1	676.2	689.8	698.3	701.7	704.3	717.9	712.8	*713.6*
75°	539.3	546.9	550.3	554.6	563.9	563.1	566.5	564.8	573.3	569.9	*568.2*
77.5°	421.9	424.4	433.8	433.8	431.2	435.5	431.2	428.7	427.0	428.7	*428.7*
80°	292.6	300.2	306.2	310.5	312.2	310.5	311.3	307.9	307.9	305.3	*306.2*
82.5°	180.3	188.0	190.5	194.8	195.6	195.6	195.6	193.1	193.9	191.4	*193.1*
85°	88.5	88.5	91.9	96.1	97.0	98.7	98.7	98.7	98.7	98.7	*99.5*
87.5°	22.1	22.1	23.8	26.4	26.4	27.2	28.1	28.9	28.9	29.8	*29.8*
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8
2.5°	325.8	325.8	325.8	325.8	325.8	325.8	325.8	325.8
5°	331.7	330.9	330.9	330.0	330.0	329.2	329.2	329.2
7.5°	335.1	335.1	334.3	333.4	332.6	332.6	333.4	333.4
10°	341.9	343.6	344.5	344.5	343.6	343.6	342.8	342.8
12.5°	353.0	354.7	356.4	358.1	358.1	357.2	355.5	354.7
15°	370.0	370.0	370.8	371.7	371.7	370.0	366.6	366.6
17.5°	393.0	391.3	388.7	389.6	390.4	389.6	386.2	387.9
20°	424.4	421.0	419.3	417.6	421.0	421.0	415.9	415.9
22.5°	447.4	444.8	440.6	439.7	442.3	444.0	439.7	437.2
25°	467.0	467.8	462.7	460.2	461.0	461.9	455.9	456.7
27.5°	488.2	489.1	486.5	482.3	480.6	483.1	478.9	477.2
30°	513.7	512.9	514.6	509.5	505.2	507.8	507.8	503.5
32.5°	546.9	544.4	545.2	539.3	534.1	533.3	529.9	524.8
35°	592.0	585.2	580.1	576.7	567.3	565.6	565.6	559.7
37.5°	650.7	640.5	631.1	631.1	616.7	612.4	615.0	607.3
40°	716.2	712.8	698.3	695.8	680.4	670.2	670.2	660.9
42.5°	763.8	768.1	751.0	740.8	730.6	714.5	716.2	704.3
45°	815.7	813.1	798.7	780.8	777.4	760.4	762.1	750.2
47.5°	865.0	849.7	842.9	825.0	817.4	797.8	803.8	794.4
50°	912.6	895.6	888.8	867.6	857.4	836.1	836.9	819.9
52.5°	962.0	946.7	936.5	909.2	891.4	876.1	872.7	865.0
55°	1025.8	1009.6	984.9	959.4	945.8	923.7	926.3	914.3
57.5°	1050.4	1040.2	1013.9	998.6	973.0	950.9	945.8	924.6
59°	*1049.6*	*1043.6*	*1017.3*	*1007.1*	*970.5*	*951.8*	*942.4*	*925.4*
60°	1043.6	1041.9	1015.6	1002.8	964.5	947.5	939.0	928.0
62.5°	1025.8	1024.9	995.2	979.8	948.4	934.8	929.7	915.2
65°	999.4	984.9	962.0	951.8	919.5	909.2	894.8	880.3
67.5°	936.5	904.1	900.7	888.0	859.9	847.2	837.8	824.2
70°	832.7	811.4	811.4	795.3	775.7	769.8	757.0	741.7
72.5°	703.4	698.3	700.9	682.1	672.8	669.4	658.3	644.7
75°	562.2	563.1	560.5	556.3	553.7	554.6	542.7	536.7
77.5°	426.1	433.8	432.1	426.1	432.1	431.2	421.0	418.5
80°	303.6	307.1	308.8	305.3	308.8	306.2	297.7	296.8
82.5°	191.4	192.2	193.9	190.5	191.4	190.5	184.6	184.6
85°	97.8	101.2	97.0	93.6	93.6	90.2	88.5	89.3
87.5°	28.9	30.6	27.2	27.2	25.5	23.8	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)