

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: P198357

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198357
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P27139) AND DOWNLIGHT
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-SG-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
WIDE DISTRIBUTION WITH SOFTENING 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: 4307.8 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G1

Input Watts (W): 51.4
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

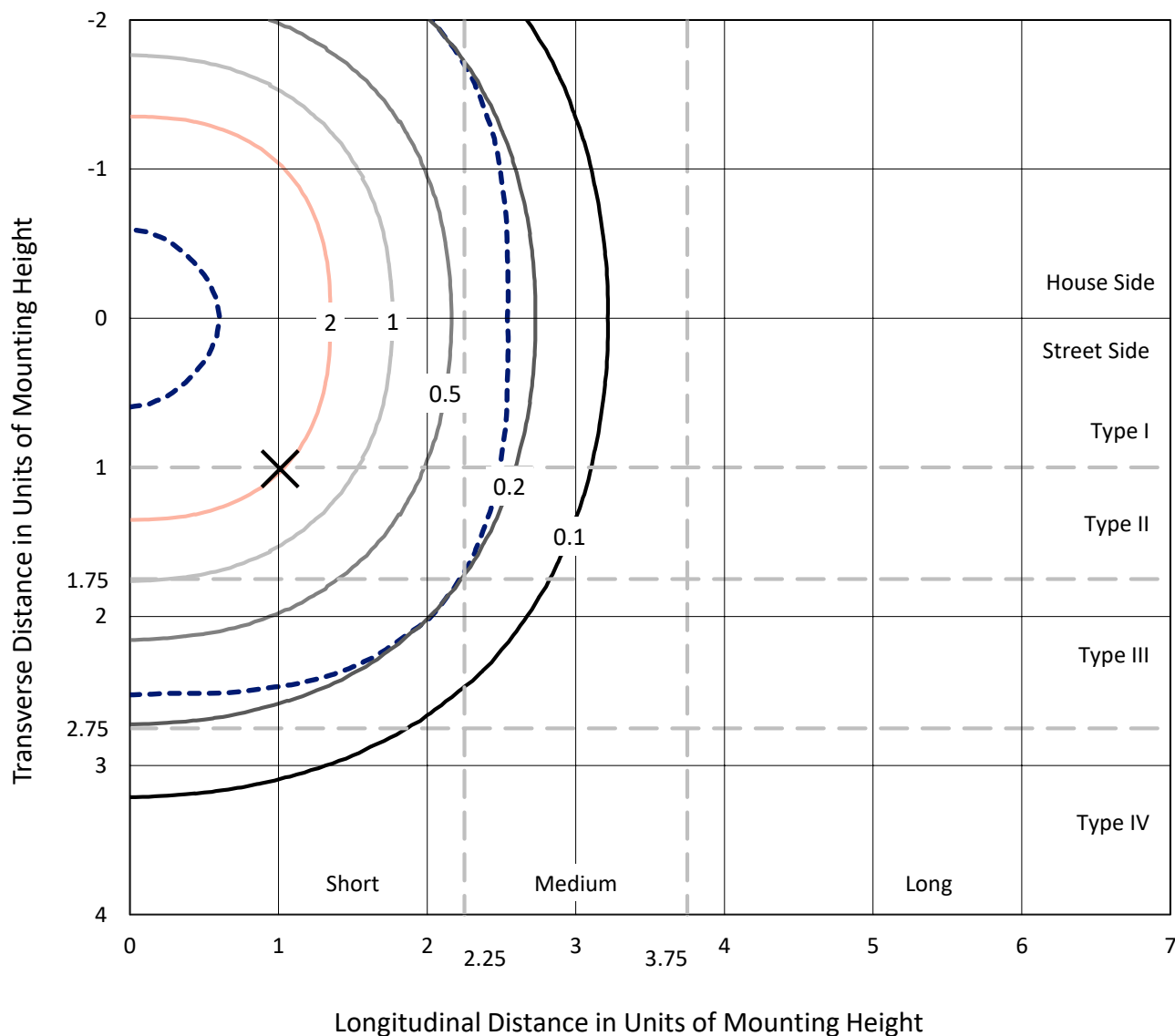


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

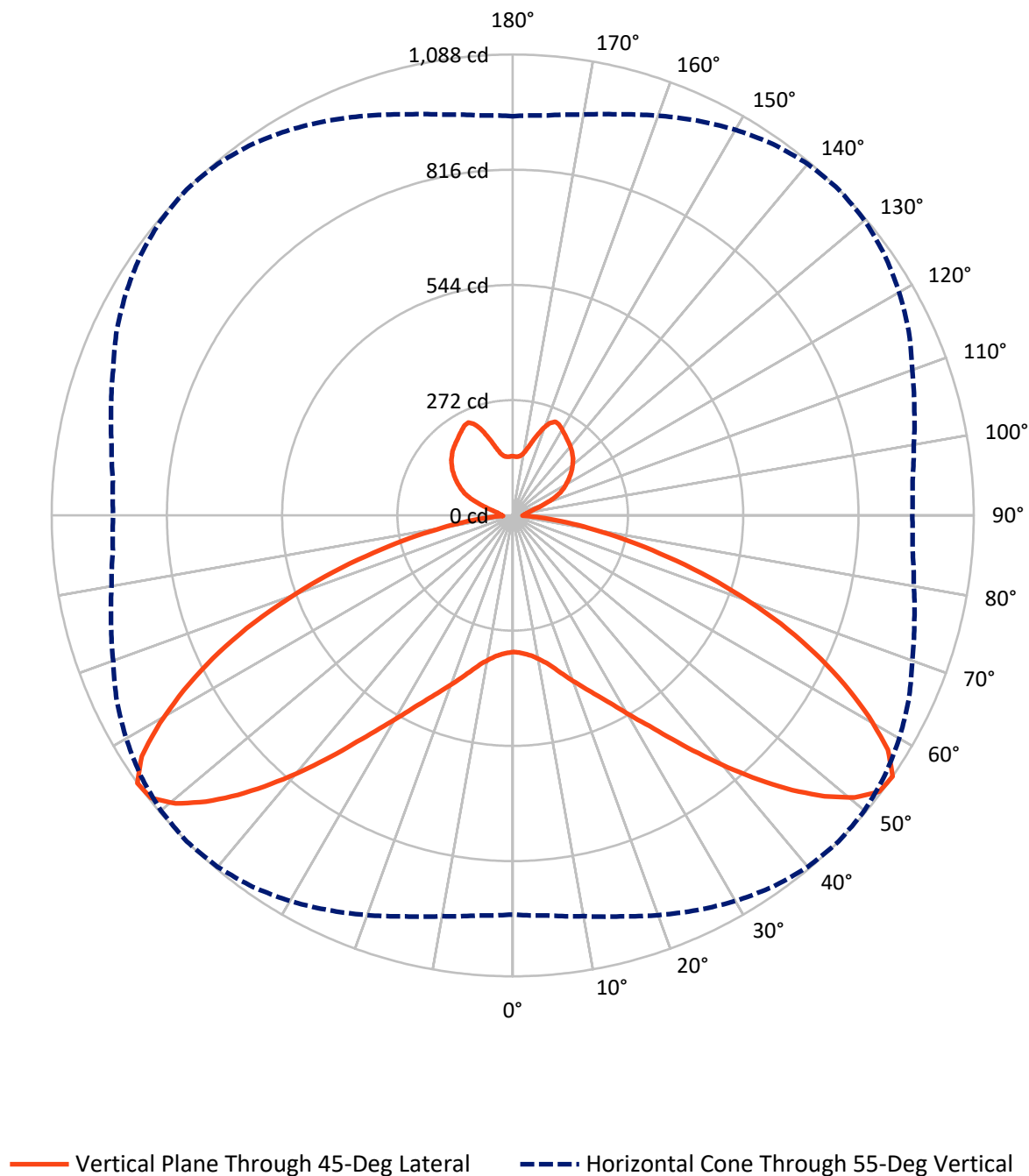


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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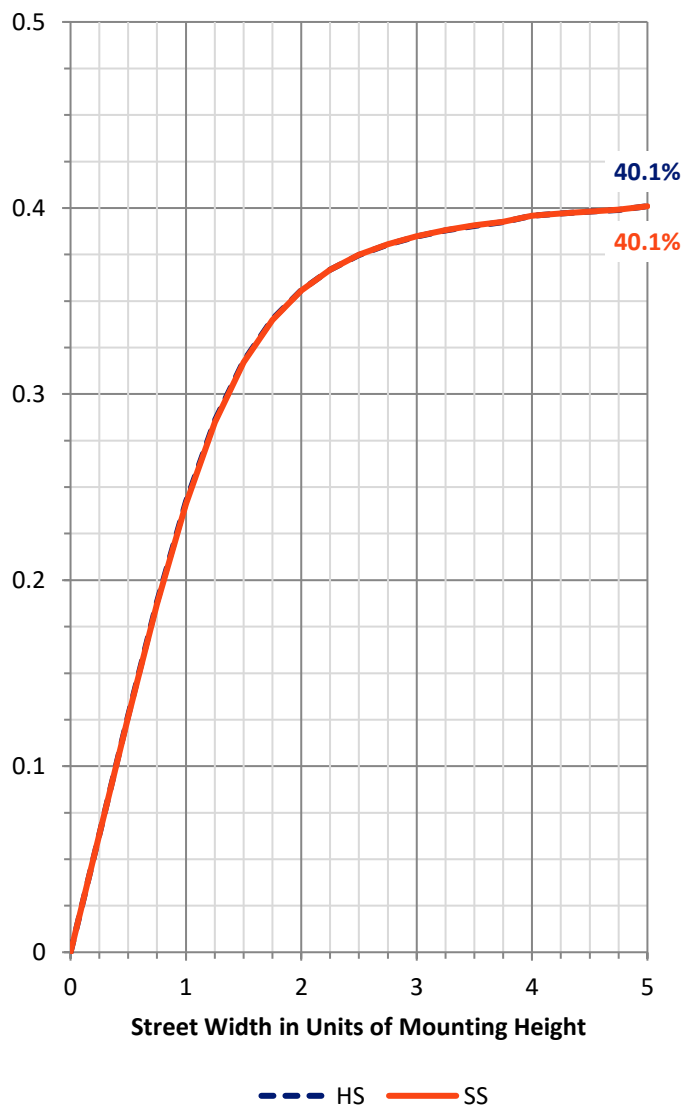
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1741.9	412.0	2153.9
	% Fixture	40.4	9.6	50.0
Street Side	Lumens	1741.9	412.0	2153.9
	% Fixture	40.4	9.6	50.0
Total	Lumens	3483.8	824.0	4307.8
	% Fixture	80.9	19.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	0.7
10°-20°	108.0	2.5
20°-30°	220.0	5.1
30°-40°	401.7	9.3
40°-50°	682.0	15.8
50°-60°	888.2	20.6
60°-70°	718.3	16.7
70°-80°	353.0	8.2
80°-90°	80.8	1.9
90°-100°	38.3	0.9
100°-110°	59.4	1.4
110°-120°	119.3	2.8
120°-130°	148.7	3.5
130°-140°	153.2	3.6
140°-150°	136.0	3.2
150°-160°	103.7	2.4
160°-170°	51.8	1.2
170°-180°	13.6	0.3
0°-90°	3483.8	80.9
0°-180°	4307.8	100.0

Coefficient of Utilization



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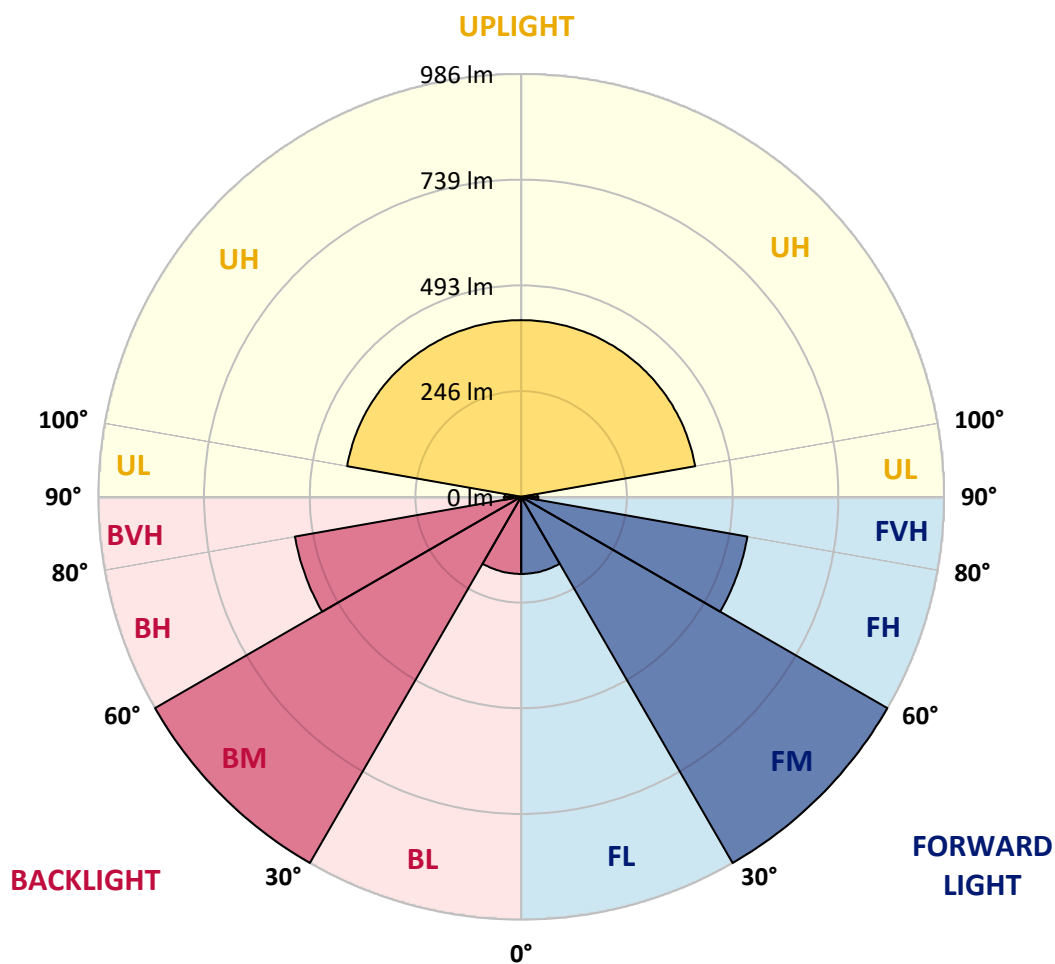
CATALOG NUMBER: TT-C2-LED-E1-WQ-SG-MS/DIM-8030-UPL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.9	4.2			
FM	(30°-60°)	985.9	22.9			
FH	(60°-80°)	535.7	12.4			G0/660
FVH	(80°-90°)	40.4	0.9			G1/100
BL	(0°-30°)	179.9	4.2	B1/500		
BM	(30°-60°)	985.9	22.9	B1/1000		
BH	(60°-80°)	535.7	12.4	B2/1000		G0/660
BVH	(80°-90°)	40.4	0.9			G1/100
UL	(90°-100°)	38.3	0.9		U2/50	
UH	(100°-180°)	412.0	9.6		U3/500	

BUG Rating: B2-U4-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4
2.5°	323.8	323.8	323.8	323.8	323.8	323.8	324.5	324.5	324.5	324.5	324.5
5°	328.1	328.1	328.1	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8
7.5°	334.5	333.8	334.5	334.5	334.5	335.2	335.2	334.5	335.2	335.2	335.2
10°	343.7	343.0	343.7	343.7	343.7	344.5	344.5	344.5	344.5	345.2	345.2
12.5°	357.3	356.6	357.3	358.0	357.3	358.0	358.0	358.0	358.0	358.0	358.0
15°	374.4	373.7	374.4	375.0	374.4	375.8	375.8	375.0	375.0	375.8	375.8
17.5°	395.0	393.6	394.3	395.0	395.0	396.4	396.4	395.7	396.4	397.1	396.4
20°	416.3	414.9	415.7	417.8	417.8	418.5	419.9	419.2	419.9	420.6	419.9
22.5°	439.8	439.1	439.8	441.9	441.9	442.7	444.8	444.8	444.8	445.5	444.8
25°	465.5	464.7	465.5	467.6	467.6	469.0	471.9	471.9	472.6	473.3	472.6
27.5°	495.4	494.6	496.0	498.2	498.9	501.1	504.6	505.3	506.0	506.7	505.3
30°	530.2	528.8	530.9	534.5	535.9	538.8	543.1	544.4	545.2	547.3	545.9
32.5°	570.1	568.7	571.5	575.7	577.9	582.1	587.9	589.3	591.4	592.8	590.7
35°	617.0	616.4	619.2	625.6	629.2	634.1	642.0	644.1	645.6	648.4	645.6
37.5°	669.0	668.3	673.3	680.4	686.8	694.6	703.1	706.7	708.9	712.4	708.9
40°	726.6	725.9	732.3	740.9	748.7	758.7	769.4	774.3	778.6	782.2	777.9
42.5°	785.8	785.8	793.5	802.8	814.2	826.3	838.4	844.1	851.2	853.3	848.4
45°	842.7	843.3	851.2	862.6	878.9	894.6	908.1	915.3	923.0	925.2	918.8
47.5°	896.8	897.5	904.6	919.6	938.0	955.8	972.2	982.2	989.9	990.7	985.7
50°	940.9	943.7	953.0	966.5	985.7	1004.2	1024.2	1037.0	1044.8	1046.9	1041.9
52.5°	958.0	962.9	973.6	990.7	1012.7	1031.9	1054.0	1070.4	1079.6	1083.2	1079.0
55°	942.3	948.0	960.8	980.0	1004.2	1028.4	1051.2	1070.4	1083.2	1088.2	1083.9
57.5°	907.4	908.1	920.9	940.2	962.2	987.1	1009.2	1027.0	1039.1	1044.1	1043.4
60°	846.9	846.9	859.1	877.5	894.6	920.2	938.8	952.2	960.8	966.5	965.0
62.5°	765.8	765.8	776.4	795.7	812.8	834.8	852.7	866.8	872.5	878.9	880.4
65°	675.4	675.4	685.4	704.6	720.2	740.2	757.2	770.8	776.4	784.3	782.8
67.5°	579.3	578.7	587.9	604.2	619.2	637.7	654.1	666.9	673.3	682.5	676.1
70°	480.4	480.4	488.2	501.1	511.7	530.2	545.9	558.7	563.7	571.5	568.0
72.5°	386.5	385.7	392.1	402.1	410.6	427.0	436.3	450.5	454.8	465.5	459.8
75°	301.7	300.4	305.3	312.4	318.1	328.8	336.0	347.3	350.9	358.0	355.2
77.5°	227.0	226.3	228.4	233.5	237.7	246.3	249.1	254.8	257.6	264.8	259.1
80°	163.0	160.9	163.0	165.8	167.3	173.7	174.3	176.5	177.9	182.9	177.2
82.5°	109.6	106.8	108.2	110.3	110.3	113.9	114.6	113.9	116.7	118.1	115.3
85°	62.6	60.5	61.2	62.6	61.9	64.1	64.1	63.3	65.4	65.4	64.1
87.5°	20.7	19.2	19.9	20.7	20.7	21.3	22.1	21.3	22.8	22.8	21.3
90°	36.0	36.0	36.0	36.0	35.0	34.0	31.0	29.0	27.0	26.0	26.0
92.5°	40.0	39.0	39.0	38.0	36.0	34.0	32.0	29.0	27.0	27.0	27.0
95°	44.0	43.0	42.0	41.0	38.0	36.0	34.0	32.0	31.0	30.0	30.0
97.5°	42.0	42.0	41.0	40.0	38.0	37.0	36.0	35.0	34.0	33.0	32.0
100°	45.0	45.0	45.0	44.0	42.0	40.0	39.0	38.0	36.0	36.0	35.0
102.5°	51.0	51.0	50.0	49.0	47.0	46.0	45.0	44.0	42.0	42.0	42.0
105°	60.0	60.0	59.0	57.0	55.0	54.0	53.0	53.0	51.0	52.0	52.0
107.5°	72.0	72.0	72.0	70.0	68.0	67.0	66.0	66.0	66.0	68.0	68.0
110°	86.0	86.0	87.0	89.0	86.0	85.0	85.0	86.0	86.0	87.0	86.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	101.0	102.0	104.0	108.0	106.0	107.0	107.0	110.0	108.0	107.0	103.0
115°	121.0	122.0	123.0	128.0	126.0	128.0	127.0	129.0	126.0	124.0	120.0
117.5°	140.0	141.0	141.0	144.0	141.0	141.0	140.0	141.0	138.0	136.0	135.0
120°	152.0	153.0	154.0	155.0	151.0	149.0	147.0	149.0	147.0	147.0	148.0
122.5°	161.0	162.0	163.0	164.0	159.0	154.0	153.0	155.0	156.0	158.0	158.0
125°	169.0	169.0	170.0	172.0	168.0	163.0	160.0	165.0	166.0	168.0	167.0
127.5°	177.0	177.0	179.0	181.0	177.0	171.0	170.0	176.0	177.0	178.0	175.0
130°	187.0	188.0	190.0	191.0	185.0	179.0	179.0	186.0	187.0	186.0	183.0
132.5°	198.0	199.0	200.0	201.0	193.0	186.0	187.0	193.0	195.0	195.0	191.0
135°	210.0	210.0	211.0	209.0	199.0	192.0	193.0	199.0	202.0	201.0	197.0
137.5°	221.0	219.0	217.0	213.0	203.0	197.0	198.0	205.0	207.0	208.0	203.0
140°	229.0	226.0	222.0	216.0	205.0	200.0	201.0	207.0	210.0	213.0	212.0
142.5°	235.0	231.0	225.0	218.0	206.0	201.0	202.0	208.0	212.0	218.0	218.0
145°	235.0	230.0	225.0	218.0	207.0	202.0	204.0	211.0	215.0	223.0	225.0
147.5°	230.0	227.0	223.0	219.0	210.0	207.0	209.0	216.0	220.0	229.0	233.0
150°	224.0	221.0	219.0	220.0	215.0	214.0	216.0	222.0	227.0	235.0	239.0
152.5°	216.0	214.0	216.0	221.0	220.0	220.0	224.0	230.0	234.0	241.0	241.0
155°	208.0	207.0	211.0	219.0	222.0	224.0	229.0	237.0	239.0	243.0	239.0
157.5°	203.0	203.0	207.0	216.0	220.0	224.0	229.0	234.0	232.0	235.0	230.0
160°	199.0	198.0	203.0	210.0	212.0	213.0	216.0	219.0	216.0	219.0	216.0
162.5°	185.0	184.0	188.0	193.0	194.0	193.0	196.0	198.0	195.0	198.0	196.0
165°	169.0	167.0	169.0	173.0	173.0	173.0	175.0	176.0	174.0	177.0	175.0
167.5°	154.0	152.0	153.0	156.0	156.0	155.0	157.0	159.0	157.0	159.0	158.0
170°	142.0	141.0	142.0	145.0	144.0	144.0	146.0	147.0	146.0	147.0	147.0
172.5°	137.0	135.0	136.0	139.0	139.0	138.0	140.0	141.0	140.0	141.0	140.0
175°	136.0	134.0	135.0	137.0	137.0	137.0	138.0	139.0	138.0	139.0	138.0
177.5°	137.0	136.0	136.0	139.0	138.0	138.0	139.0	140.0	139.0	139.0	138.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	322.4	322.4	322.4	322.4	322.4	322.4	322.4	322.4
2.5°	324.5	324.5	324.5	324.5	324.5	324.5	324.5	324.5
5°	328.8	328.8	328.8	328.8	328.8	328.1	328.1	328.1
7.5°	335.2	335.2	335.2	335.2	335.2	334.5	334.5	334.5
10°	345.2	344.5	344.5	344.5	344.5	343.7	344.5	343.7
12.5°	358.0	358.7	358.7	358.0	358.7	357.3	357.3	357.3
15°	375.8	375.0	375.0	375.0	375.0	374.4	374.4	374.4
17.5°	395.7	395.7	395.0	395.0	394.3	393.6	393.6	393.6
20°	419.2	418.5	417.8	417.0	416.3	414.9	414.2	414.2
22.5°	443.4	442.7	441.9	441.3	440.6	439.1	437.7	437.7
25°	470.4	469.0	468.3	466.9	465.5	464.0	463.3	462.6
27.5°	503.2	501.8	499.6	497.5	494.6	493.9	492.5	492.5
30°	542.3	540.2	537.3	533.8	530.9	528.1	526.7	525.9
32.5°	587.9	585.1	580.0	575.7	570.8	568.0	565.8	564.4
35°	641.3	637.0	631.3	624.9	618.5	613.5	610.0	610.0
37.5°	703.9	697.5	688.9	681.1	671.8	666.2	661.9	659.0
40°	772.2	763.0	752.3	742.3	731.7	723.8	717.4	718.1
42.5°	839.8	832.0	819.2	807.1	793.5	782.8	775.1	774.3
45°	911.0	901.0	885.3	869.7	854.0	841.2	832.0	830.5
47.5°	977.1	966.5	948.0	928.8	911.7	897.5	887.5	886.1
50°	1031.3	1018.5	999.3	978.6	960.1	944.4	933.7	930.9
52.5°	1066.2	1051.9	1031.3	1006.3	986.5	968.6	955.8	952.2
55°	1071.8	1053.4	1031.3	1003.5	981.4	961.5	947.3	943.0
57.5°	1032.7	1012.7	992.9	968.6	946.6	925.2	913.8	908.1
60°	956.5	940.9	924.5	902.4	884.7	864.7	855.5	852.7
62.5°	869.0	855.5	840.5	817.8	802.8	785.0	776.4	772.9
65°	775.1	759.4	745.1	726.6	710.3	695.3	683.3	681.8
67.5°	671.1	654.8	642.6	626.3	610.0	595.7	587.9	583.6
70°	561.5	548.0	535.9	518.1	507.5	493.9	488.2	483.9
72.5°	452.6	444.8	429.9	418.5	406.4	395.7	392.1	387.9
75°	350.1	340.9	329.5	322.4	313.2	307.5	304.6	301.7
77.5°	256.9	249.1	242.7	239.9	235.6	229.9	227.8	225.6
80°	177.9	174.3	170.1	169.4	166.6	162.3	161.5	160.9
82.5°	115.3	113.2	111.7	111.7	110.3	107.4	106.8	106.8
85°	64.1	63.3	64.1	63.3	61.9	60.5	60.5	60.5
87.5°	21.3	21.3	22.1	22.8	20.7	20.7	19.9	19.9
90°	28.0	30.0	32.0	33.0	34.0	34.0	34.0	34.0
92.5°	28.0	30.0	32.0	33.0	35.0	36.0	36.0	36.0
95°	30.0	32.0	34.0	35.0	37.0	38.0	39.0	38.0
97.5°	33.0	34.0	34.0	35.0	36.0	36.0	36.0	36.0
100°	36.0	37.0	38.0	38.0	38.0	38.0	37.0	37.0
102.5°	43.0	44.0	44.0	42.0	42.0	41.0	41.0	41.0
105°	54.0	54.0	53.0	51.0	49.0	48.0	48.0	49.0
107.5°	68.0	68.0	66.0	63.0	60.0	59.0	59.0	60.0
110°	84.0	83.0	84.0	81.0	78.0	76.0	74.0	75.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	102.0	102.0	105.0	103.0	100.0	98.0	95.0	94.0
115°	121.0	123.0	125.0	124.0	123.0	121.0	116.0	113.0
117.5°	138.0	140.0	141.0	139.0	139.0	139.0	133.0	129.0
120°	150.0	151.0	153.0	148.0	148.0	148.0	145.0	142.0
122.5°	159.0	160.0	162.0	156.0	155.0	156.0	153.0	150.0
125°	167.0	167.0	168.0	164.0	163.0	164.0	160.0	158.0
127.5°	176.0	175.0	175.0	173.0	173.0	173.0	166.0	163.0
130°	183.0	182.0	183.0	181.0	184.0	181.0	171.0	169.0
132.5°	190.0	189.0	192.0	189.0	192.0	190.0	179.0	176.0
135°	196.0	197.0	201.0	199.0	199.0	195.0	185.0	184.0
137.5°	203.0	205.0	210.0	207.0	204.0	198.0	191.0	190.0
140°	212.0	214.0	217.0	214.0	209.0	202.0	195.0	195.0
142.5°	220.0	222.0	223.0	217.0	211.0	204.0	198.0	198.0
145°	230.0	230.0	227.0	217.0	211.0	205.0	201.0	202.0
147.5°	239.0	236.0	229.0	218.0	212.0	207.0	204.0	206.0
150°	242.0	240.0	232.0	220.0	214.0	211.0	210.0	211.0
152.5°	242.0	241.0	235.0	223.0	219.0	217.0	215.0	216.0
155°	238.0	237.0	234.0	227.0	224.0	223.0	220.0	219.0
157.5°	228.0	229.0	229.0	226.0	226.0	225.0	222.0	219.0
160°	215.0	217.0	219.0	219.0	221.0	222.0	218.0	215.0
162.5°	196.0	199.0	200.0	201.0	204.0	208.0	207.0	207.0
165°	176.0	179.0	181.0	181.0	185.0	189.0	190.0	192.0
167.5°	160.0	163.0	165.0	164.0	168.0	171.0	172.0	174.0
170°	148.0	150.0	152.0	152.0	155.0	158.0	159.0	160.0
172.5°	141.0	144.0	145.0	144.0	146.0	149.0	149.0	151.0
175°	138.0	140.0	141.0	140.0	141.0	143.0	143.0	144.0
177.5°	138.0	140.0	140.0	138.0	140.0	141.0	141.0	141.0
180°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0

(END OF REPORT)