

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: P198369

Luminaire Tested: **TT-C3-LED-E1-DL-CG-LWR-LW-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198369
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-DL-CG-LWR-LW-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
DRIVE LANE DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4386.6 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G1

Input Watts (W): 83.9
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



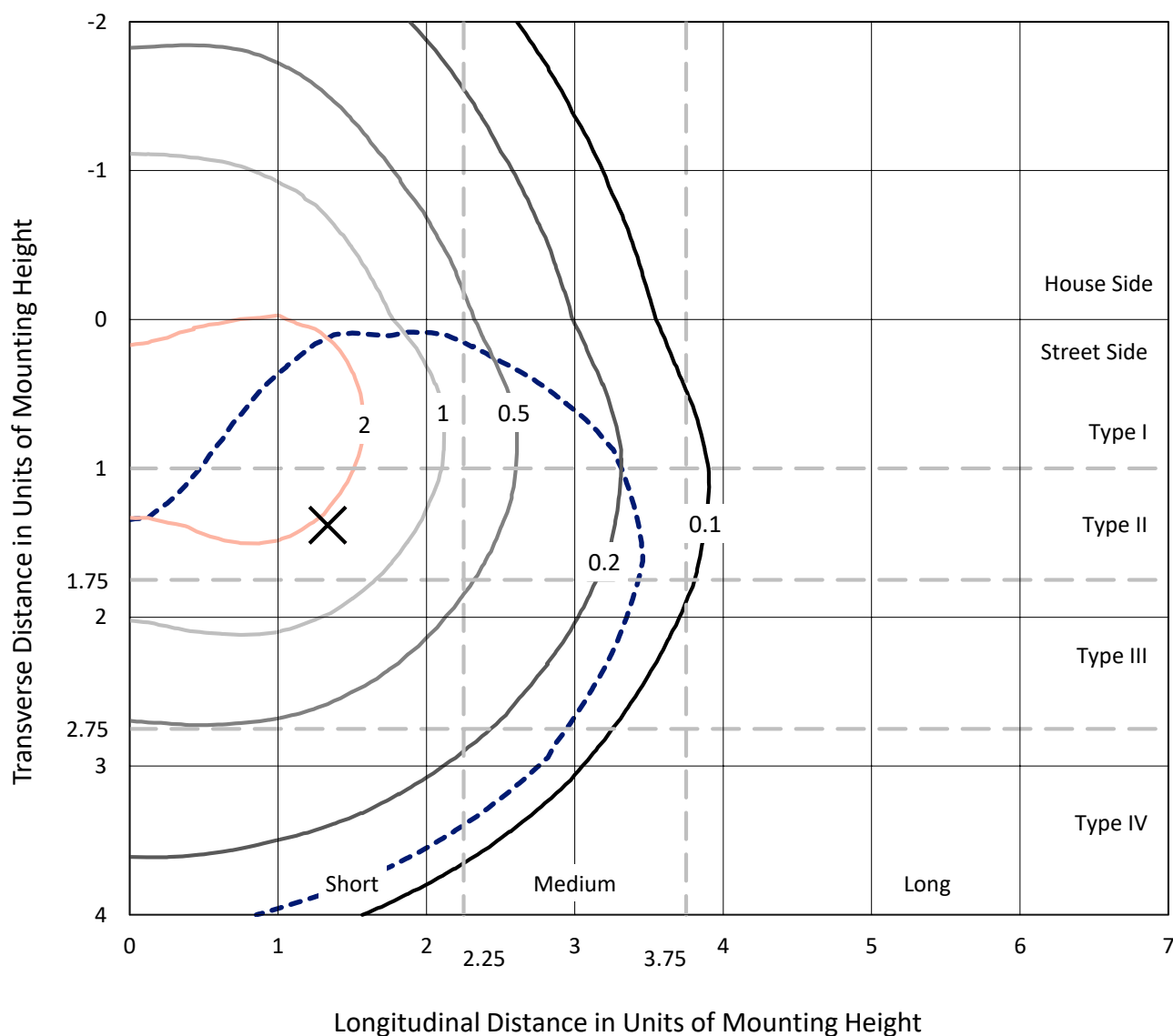
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

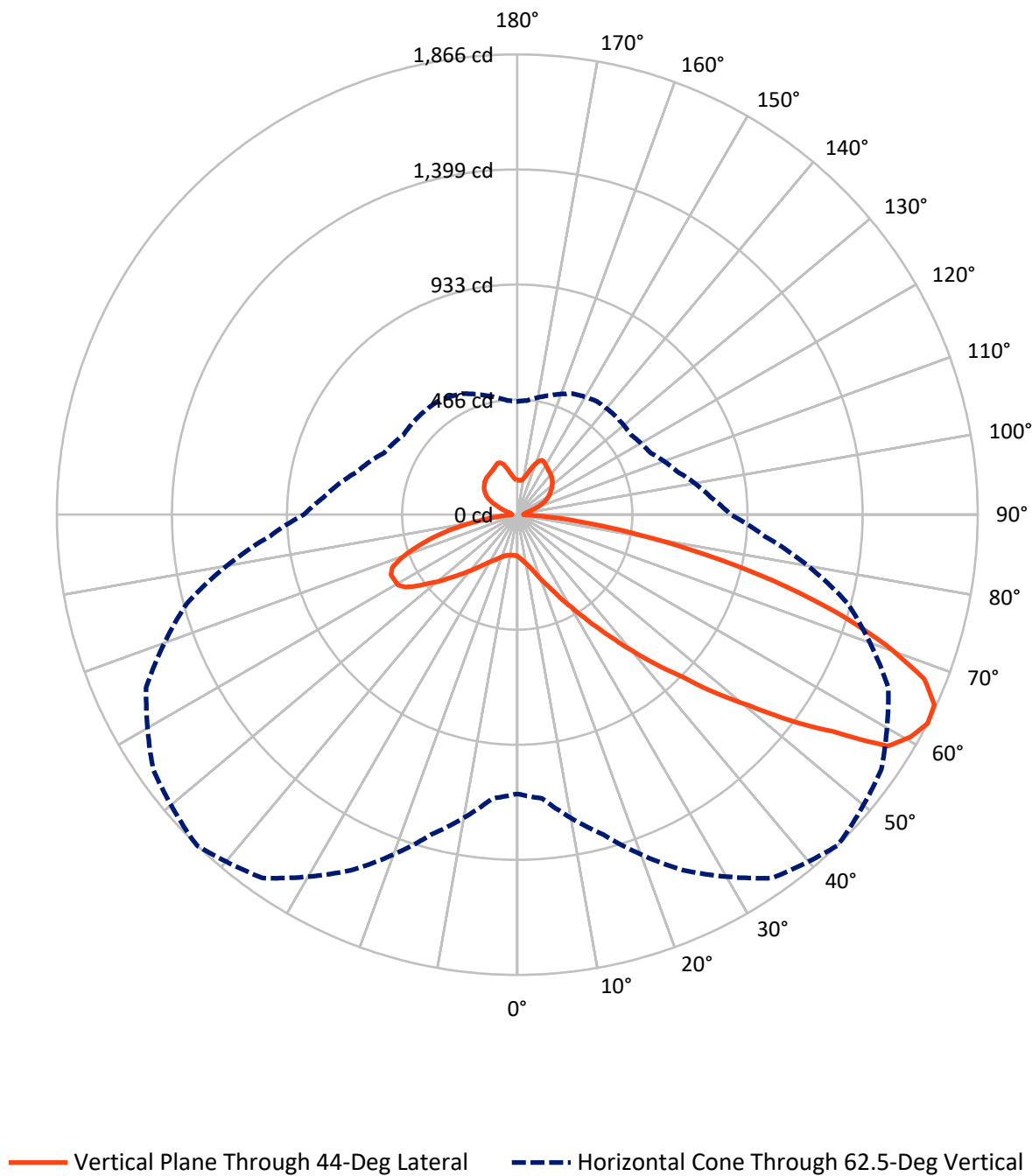


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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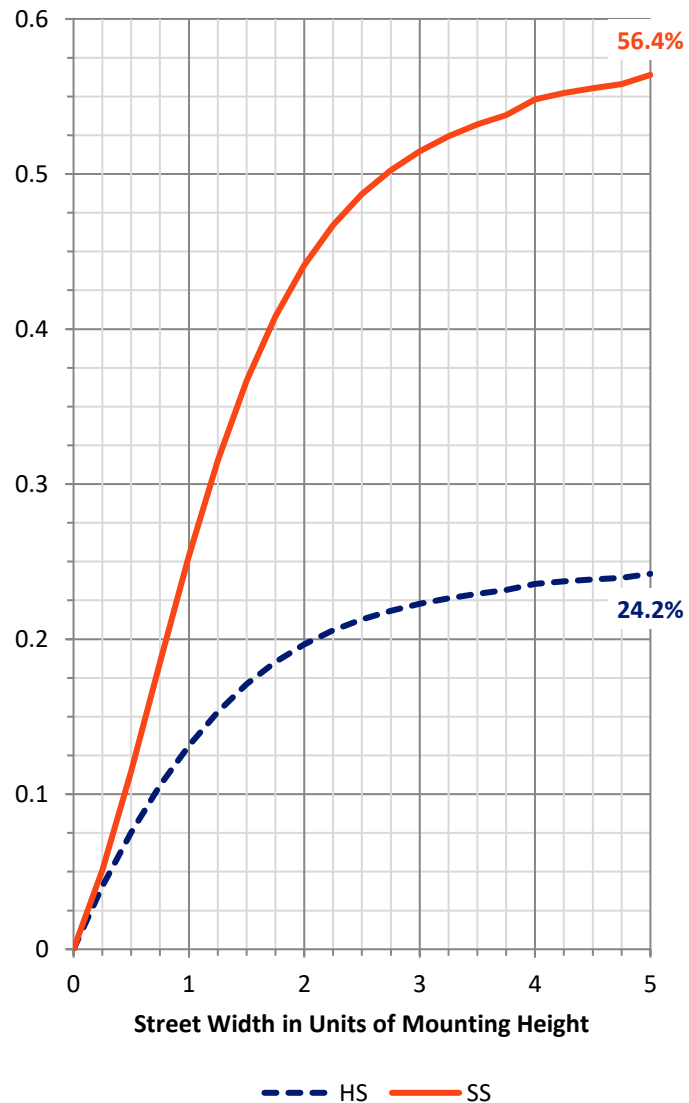
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.7	387.3	1465.0
	% Fixture	24.6	8.8	33.4
Street Side	Lumens	2508.9	412.6	2921.5
	% Fixture	57.2	9.4	66.6
Total	Lumens	3586.6	800.0	4386.6
	% Fixture	81.8	18.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	0.4
10°-20°	58.3	1.3
20°-30°	126.2	2.9
30°-40°	249.1	5.7
40°-50°	471.0	10.7
50°-60°	809.5	18.5
60°-70°	1015.7	23.2
70°-80°	693.7	15.8
80°-90°	146.2	3.3
90°-100°	36.3	0.8
100°-110°	55.2	1.3
110°-120°	110.8	2.5
120°-130°	144.2	3.3
130°-140°	148.0	3.4
140°-150°	133.4	3.0
150°-160°	102.6	2.3
160°-170°	55.1	1.3
170°-180°	14.3	0.3
0°-90°	3586.6	81.8
0°-180°	4386.6	100.0

Coefficient of Utilization



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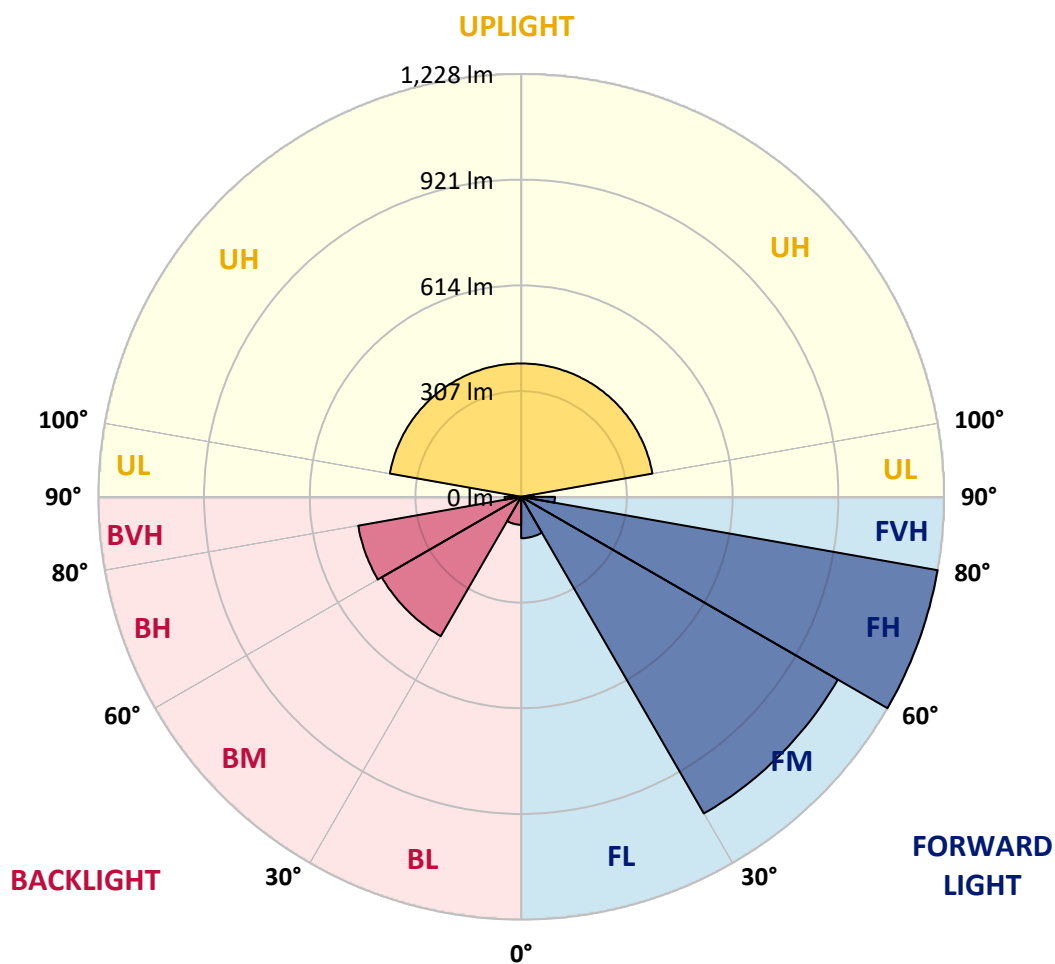
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	120.2	2.7			
FM	(30°-60°)	1062.1	24.2			
FH	(60°-80°)	1228.5	28.0			G1/1800
FVH	(80°-90°)	98.0	2.2			G1/100
BL	(0°-30°)	81.2	1.9	B0/110		
BM	(30°-60°)	467.5	10.7	B1/1000		
BH	(60°-80°)	480.8	11.0	B1/500		G1/500
BVH	(80°-90°)	48.2	1.1			G1/100
UL	(90°-100°)	36.3	0.8		U2/50	
UH	(100°-180°)	387.3	8.8		U3/500	

BUG Rating: B1-U4-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2
2.5°	176.5	176.5	176.5	176.5	175.0	175.0	175.0	174.2	173.5	172.0	171.2
5°	185.5	186.3	185.5	184.8	183.3	182.5	181.8	181.0	178.7	176.5	174.2
7.5°	196.8	196.1	196.1	195.3	193.1	191.6	191.6	188.5	185.5	182.5	178.7
10°	208.9	209.7	209.7	207.4	205.9	202.9	202.9	198.3	194.6	190.1	185.5
12.5°	224.0	223.2	224.7	223.2	221.0	215.7	215.7	211.9	205.1	199.1	193.1
15°	242.8	242.8	243.6	240.6	238.3	233.0	234.5	224.7	218.7	211.9	202.1
17.5°	267.0	267.0	264.7	263.2	259.4	256.4	253.4	245.1	236.1	224.7	213.4
20°	294.1	294.9	291.1	291.1	286.6	282.8	280.6	270.7	257.2	242.1	227.8
22.5°	327.3	325.8	322.8	319.8	317.5	310.7	313.0	300.2	282.1	261.7	242.8
25°	353.7	356.0	356.0	358.2	354.5	346.9	349.2	333.3	312.2	288.1	261.7
27.5°	386.1	390.7	394.4	399.0	397.5	392.2	390.7	376.3	349.2	320.5	285.1
30°	421.6	428.4	431.4	439.7	441.9	437.4	436.7	422.3	395.9	353.0	314.5
32.5°	467.6	466.8	475.9	490.2	499.3	497.0	496.2	480.4	445.0	399.7	346.9
35°	512.1	513.6	524.2	546.0	560.4	564.9	564.1	547.5	512.1	455.5	389.9
37.5°	560.4	562.6	583.0	609.4	632.8	644.1	644.1	636.5	589.0	512.8	437.4
40°	607.9	618.4	641.8	675.7	715.0	733.8	733.1	721.0	677.3	592.0	487.2
42.5°	665.2	675.7	701.4	749.7	798.7	834.9	834.9	831.1	776.0	684.8	559.6
45°	721.7	730.8	762.5	823.6	895.2	937.4	942.7	956.3	917.8	789.6	643.3
47.5°	782.1	789.6	830.3	907.3	997.0	1079.2	1084.5	1095.1	1033.2	892.2	708.9
50°	842.4	845.4	905.0	1008.3	1135.8	1214.2	1231.6	1252.7	1166.7	1015.9	782.8
52.5°	911.8	913.3	982.7	1114.7	1273.8	1388.4	1391.5	1406.5	1359.0	1167.5	920.9
55°	972.9	975.2	1064.1	1233.8	1441.2	1551.3	1581.5	1625.3	1509.1	1269.3	961.6
57.5°	1029.5	1038.5	1160.7	1377.9	1603.4	1770.1	1764.8	1762.5	1597.3	1310.0	969.9
60°	1084.5	1101.1	1257.2	1494.8	1722.5	1830.4	1836.4	1793.4	1620.7	1326.6	961.6
62.5°	1132.0	1154.6	1341.7	1590.6	1798.7	1865.8	1862.1	1801.0	1659.2	1384.7	1006.8
65°	1166.0	1196.9	1380.1	1631.3	1792.7	1857.5	1862.8	1830.4	1692.4	1387.7	993.3
67.5°	1183.3	1227.0	1379.4	1604.1	1747.4	1778.4	1780.6	1721.0	1590.6	1313.8	908.8
70°	1187.8	1216.5	1342.4	1504.6	1590.6	1587.5	1583.8	1539.3	1414.1	1172.0	807.7
72.5°	1138.8	1164.5	1225.5	1325.1	1359.8	1352.2	1337.9	1288.1	1203.7	1007.6	688.6
75°	1031.0	1040.0	1042.3	1070.2	1071.7	1073.9	1057.4	1024.9	965.3	814.5	549.8
77.5°	830.3	843.9	814.5	782.8	782.1	779.1	775.3	734.6	705.9	610.9	408.8
80°	604.9	598.8	574.7	538.5	514.3	506.8	502.3	491.0	473.6	418.6	284.3
82.5°	365.0	371.8	346.9	321.3	308.5	295.6	302.4	290.4	281.3	255.7	174.2
85°	163.7	163.7	158.4	151.6	141.0	141.8	143.3	138.8	132.7	119.9	83.7
87.5°	31.7	28.7	30.9	31.7	29.4	30.2	32.4	33.9	35.4	33.2	24.9
90°	36.0	36.0	36.0	34.0	29.0	26.2	26.0	28.0	32.0	34.0	34.0
92.5°	40.0	39.0	38.0	34.0	29.0	27.0	27.0	28.0	32.0	35.0	36.0
95°	44.0	43.0	41.0	36.0	32.0	30.2	30.0	30.0	34.0	37.0	39.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.2	33.0	33.0	34.0	36.0	36.0
100°	45.0	45.0	44.0	40.0	38.0	36.0	36.0	36.0	38.0	38.0	37.0
102.5°	51.0	51.0	49.0	46.0	44.0	42.0	42.0	43.0	44.0	42.0	41.0
105°	60.0	60.0	57.0	54.0	53.0	51.8	52.0	54.0	53.0	49.0	48.0
107.5°	72.0	72.0	70.0	67.0	66.0	67.6	68.0	68.0	66.0	60.0	59.0
110°	86.0	86.0	89.0	85.0	86.0	86.8	87.0	84.0	84.0	78.0	74.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
112.5°	101.0	102.0	108.0	107.0	110.0	107.2	107.0	102.0	105.0	100.0	95.0
115°	121.0	122.0	128.0	128.0	129.0	124.4	124.0	121.0	125.0	123.0	116.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.4	136.0	138.0	141.0	139.0	133.0
120°	152.0	153.0	155.0	149.0	149.0	147.0	147.0	150.0	153.0	148.0	145.0
122.5°	161.0	162.0	164.0	154.0	155.0	157.6	158.0	159.0	162.0	155.0	153.0
125°	169.0	169.0	172.0	163.0	165.0	167.6	168.0	167.0	168.0	163.0	160.0
127.5°	177.0	177.0	181.0	171.0	176.0	177.8	178.0	176.0	175.0	173.0	166.0
130°	187.0	188.0	191.0	179.0	186.0	186.2	186.0	183.0	183.0	184.0	171.0
132.5°	198.0	199.0	201.0	186.0	193.0	195.0	195.0	190.0	192.0	192.0	179.0
135°	210.0	210.0	209.0	192.0	199.0	201.2	201.0	196.0	201.0	199.0	185.0
137.5°	221.0	219.0	213.0	197.0	205.0	207.8	208.0	203.0	210.0	204.0	191.0
140°	229.0	226.0	216.0	200.0	207.0	212.4	213.0	212.0	217.0	209.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	216.8	218.0	220.0	223.0	211.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	221.4	223.0	230.0	227.0	211.0	201.0
147.5°	230.0	227.0	219.0	207.0	216.0	227.2	229.0	239.0	229.0	212.0	204.0
150°	224.0	221.0	220.0	214.0	222.0	233.4	235.0	242.0	232.0	214.0	210.0
152.5°	216.0	214.0	221.0	220.0	230.0	239.6	241.0	242.0	235.0	219.0	215.0
155°	208.0	207.0	219.0	224.0	237.0	242.2	243.0	238.0	234.0	224.0	220.0
157.5°	203.0	203.0	216.0	224.0	234.0	234.4	235.0	228.0	229.0	226.0	222.0
160°	199.0	198.0	210.0	213.0	219.0	218.4	219.0	215.0	219.0	221.0	218.0
162.5°	185.0	184.0	193.0	193.0	198.0	197.4	198.0	196.0	200.0	204.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	176.4	177.0	176.0	181.0	185.0	190.0
167.5°	154.0	152.0	156.0	155.0	159.0	158.6	159.0	160.0	165.0	168.0	172.0
170°	142.0	141.0	145.0	144.0	147.0	146.8	147.0	148.0	152.0	155.0	159.0
172.5°	137.0	135.0	139.0	138.0	141.0	140.8	141.0	141.0	145.0	146.0	149.0
175°	136.0	134.0	137.0	137.0	139.0	138.8	139.0	138.0	141.0	141.0	143.0
177.5°	137.0	136.0	139.0	138.0	140.0	139.0	139.0	138.0	140.0	140.0	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°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2	168.2
2.5°	171.2	170.4	169.7	168.2	166.7	165.9	165.2	164.4	164.4	163.7	163.7
5°	173.5	172.7	171.2	169.7	168.2	165.9	164.4	163.7	162.1	162.1	162.1
7.5°	177.2	175.7	172.7	170.4	168.2	165.9	164.4	162.9	162.1	160.6	160.6
10°	182.5	180.2	176.5	172.0	168.9	166.7	164.4	162.9	162.1	161.4	161.4
12.5°	190.1	186.3	180.2	175.7	171.2	168.2	165.9	164.4	163.7	162.9	162.9
15°	197.6	193.8	186.3	179.5	174.2	171.2	168.2	167.4	165.9	165.9	165.9
17.5°	208.2	202.1	193.1	185.5	179.5	175.0	172.7	170.4	170.4	171.2	171.2
20°	220.2	213.4	202.1	192.3	185.5	181.0	178.7	177.2	176.5	177.2	178.0
22.5°	234.5	224.7	210.4	201.4	193.8	188.5	186.3	184.8	184.0	185.5	184.8
25°	248.9	239.1	222.5	210.4	201.4	197.6	195.3	194.6	193.1	194.6	193.8
27.5°	273.0	259.4	236.8	221.0	212.7	208.2	205.1	203.6	203.6	203.6	202.9
30°	294.1	278.3	251.9	236.1	224.0	218.7	215.7	214.9	214.9	215.7	214.9
32.5°	323.5	303.9	273.0	251.9	240.6	232.3	229.3	228.5	228.5	227.8	228.5
35°	361.3	337.9	297.1	272.3	257.2	249.6	246.6	245.9	243.6	243.6	243.6
37.5°	402.0	371.1	325.8	298.7	279.8	270.0	265.5	262.5	260.9	259.4	259.4
40°	446.5	411.0	360.5	325.1	305.4	292.6	284.3	279.8	277.5	275.3	273.8
42.5°	504.5	465.3	400.5	357.5	332.6	318.3	306.2	301.7	295.6	293.4	288.9
45°	580.7	530.9	450.2	402.0	365.8	345.4	333.3	323.5	316.0	312.2	308.5
47.5°	640.3	581.5	498.5	440.4	405.0	378.6	362.0	346.2	337.1	330.3	328.8
50°	700.6	638.8	549.8	480.4	441.2	417.8	395.9	376.3	359.7	352.2	353.7
52.5°	817.5	742.9	618.4	534.7	479.7	453.3	430.6	406.5	387.6	375.6	376.3
55°	850.7	774.5	662.9	587.5	534.7	500.0	469.9	443.5	416.3	399.0	399.7
57.5°	848.5	773.0	666.7	601.8	567.1	542.3	514.3	478.1	446.5	423.8	420.8
60°	837.1	761.0	659.9	594.3	568.7	562.6	548.3	515.1	472.1	446.5	441.2
62.5°	865.0	789.6	672.0	594.3	563.4	564.1	561.1	540.7	500.0	464.6	458.5
65°	853.0	771.5	664.4	599.6	573.2	567.1	565.6	546.0	518.1	478.1	472.9
67.5°	781.3	710.4	613.1	555.8	544.5	549.8	557.3	544.5	516.6	486.4	479.7
70°	685.5	625.2	543.0	493.2	488.0	498.5	515.9	517.4	501.5	478.1	478.9
72.5°	578.5	530.2	460.8	426.9	420.8	430.6	452.5	463.1	463.8	455.5	454.8
75°	464.6	420.8	371.1	342.4	343.9	359.0	375.6	393.7	399.7	405.0	409.5
77.5°	346.2	322.8	280.6	261.7	265.5	282.1	292.6	303.9	316.8	322.8	327.3
80°	242.1	221.7	193.8	182.5	187.0	196.8	205.9	215.7	232.3	233.0	242.1
82.5°	151.6	138.0	123.7	119.9	120.7	124.4	135.0	141.0	148.6	150.8	149.3
85°	73.9	70.9	66.4	64.1	64.9	68.6	75.4	79.9	84.5	83.7	79.2
87.5°	23.4	24.1	24.9	25.6	25.6	27.9	30.2	30.2	31.7	30.9	30.9
90°	34.0	34.0	34.0	32.0	27.0	21.0	25.0	30.0	33.0	34.0	34.0
92.5°	36.0	35.0	33.0	31.0	27.0	23.0	25.0	29.0	34.0	36.0	36.0
95°	38.0	38.0	35.0	33.0	29.0	26.0	27.0	31.0	34.0	35.0	36.0
97.5°	36.0	35.0	35.0	34.0	30.0	25.0	26.0	30.0	33.0	35.0	35.0
100°	37.0	37.0	38.0	38.0	33.0	27.0	28.0	32.0	35.0	36.0	36.0
102.5°	41.0	42.0	43.0	45.0	39.0	32.0	33.0	35.0	38.0	40.0	41.0
105°	49.0	49.0	52.0	54.0	48.0	39.0	38.0	41.0	44.0	48.0	49.0
107.5°	60.0	61.0	65.0	65.0	58.0	50.0	47.0	50.0	54.0	60.0	61.0
110°	75.0	77.0	78.0	75.0	71.0	65.0	60.0	62.0	67.0	73.0	74.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	94.0	94.0	91.0	86.0	84.0	82.0	77.0	80.0	85.0	87.0	87.0
115°	113.0	111.0	104.0	100.0	99.0	102.0	99.0	103.0	106.0	102.0	102.0
117.5°	129.0	128.0	121.0	117.0	116.0	120.0	121.0	125.0	125.0	120.0	120.0
120°	142.0	142.0	137.0	134.0	134.0	137.0	137.0	139.0	139.0	134.0	136.0
122.5°	150.0	153.0	151.0	148.0	149.0	149.0	145.0	148.0	149.0	145.0	146.0
125°	158.0	162.0	162.0	159.0	160.0	159.0	149.0	154.0	156.0	154.0	154.0
127.5°	163.0	169.0	170.0	168.0	168.0	169.0	154.0	158.0	163.0	160.0	161.0
130°	169.0	176.0	178.0	174.0	175.0	175.0	159.0	164.0	169.0	164.0	167.0
132.5°	176.0	182.0	186.0	181.0	183.0	181.0	165.0	171.0	176.0	171.0	174.0
135°	184.0	190.0	195.0	190.0	191.0	187.0	170.0	177.0	184.0	179.0	179.0
137.5°	190.0	196.0	204.0	200.0	199.0	191.0	175.0	182.0	192.0	187.0	187.0
140°	195.0	201.0	213.0	212.0	206.0	195.0	180.0	186.0	200.0	195.0	196.0
142.5°	198.0	204.0	220.0	222.0	212.0	197.0	184.0	190.0	205.0	204.0	205.0
145°	202.0	208.0	225.0	230.0	216.0	199.0	187.0	193.0	208.0	211.0	214.0
147.5°	206.0	212.0	230.0	236.0	219.0	202.0	191.0	195.0	212.0	220.0	225.0
150°	211.0	216.0	231.0	235.0	219.0	205.0	194.0	199.0	215.0	227.0	233.0
152.5°	216.0	220.0	229.0	230.0	220.0	208.0	201.0	205.0	219.0	232.0	239.0
155°	219.0	221.0	224.0	222.0	220.0	213.0	208.0	212.0	224.0	234.0	240.0
157.5°	219.0	219.0	216.0	213.0	216.0	219.0	215.0	220.0	229.0	232.0	235.0
160°	215.0	214.0	210.0	208.0	213.0	223.0	224.0	228.0	233.0	229.0	232.0
162.5°	207.0	207.0	204.0	204.0	209.0	221.0	227.0	231.0	230.0	224.0	226.0
165°	192.0	194.0	196.0	198.0	203.0	212.0	216.0	219.0	220.0	215.0	217.0
167.5°	174.0	177.0	181.0	184.0	189.0	195.0	196.0	199.0	200.0	197.0	200.0
170°	160.0	163.0	166.0	168.0	172.0	177.0	178.0	180.0	181.0	178.0	181.0
172.5°	151.0	153.0	155.0	156.0	159.0	162.0	162.0	164.0	165.0	163.0	166.0
175°	144.0	146.0	147.0	148.0	149.0	151.0	151.0	152.0	153.0	151.0	153.0
177.5°	141.0	142.0	142.0	142.0	143.0	144.0	143.0	144.0	145.0	143.0	145.0
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)