

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: P198376

Luminaire Tested: **TT-C3-LED-E1-DL-MS/DIM-8030-UPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198376
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-MS/DIM-8030-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
DRIVE LANE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4762.5 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G2

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



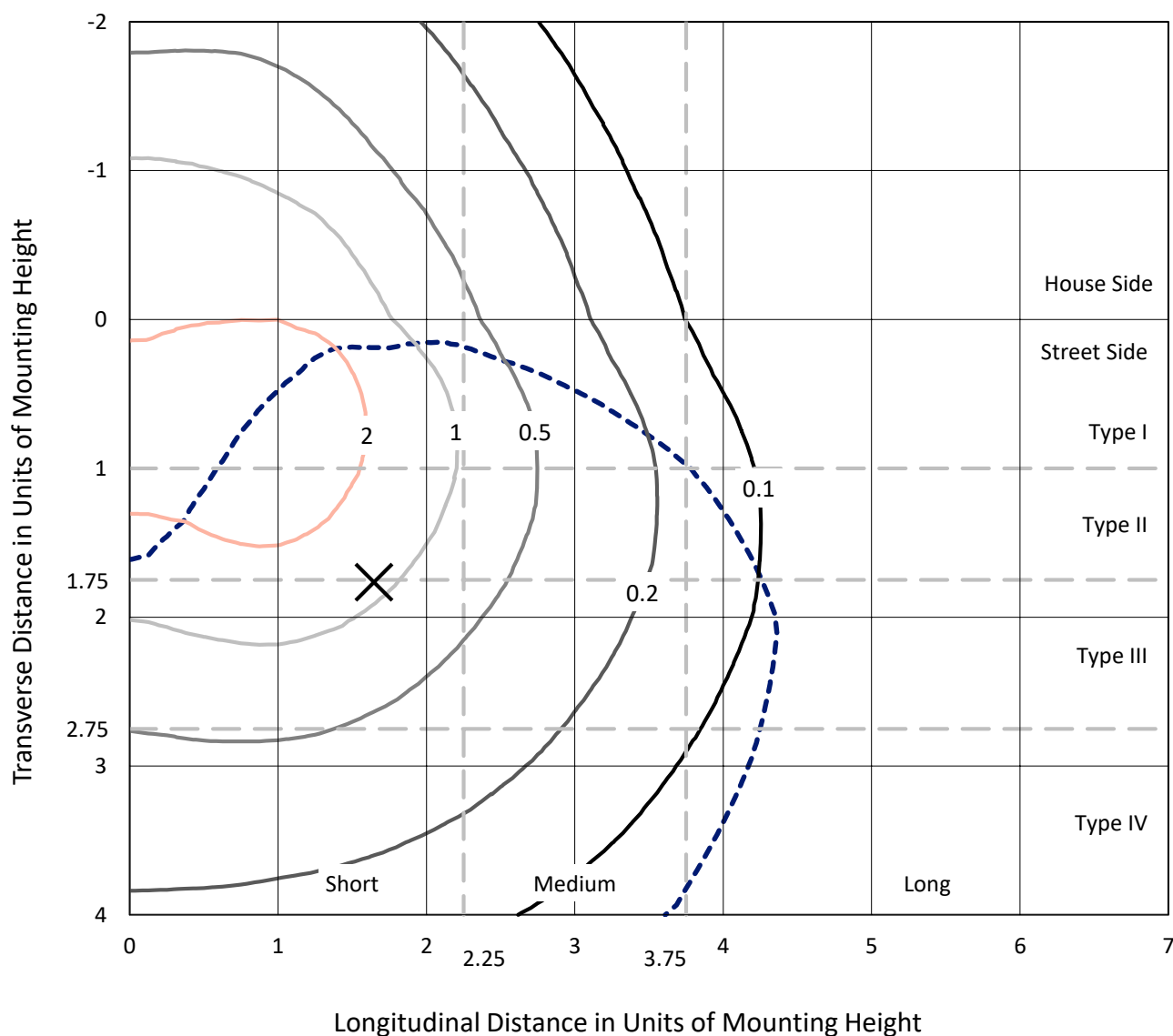
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

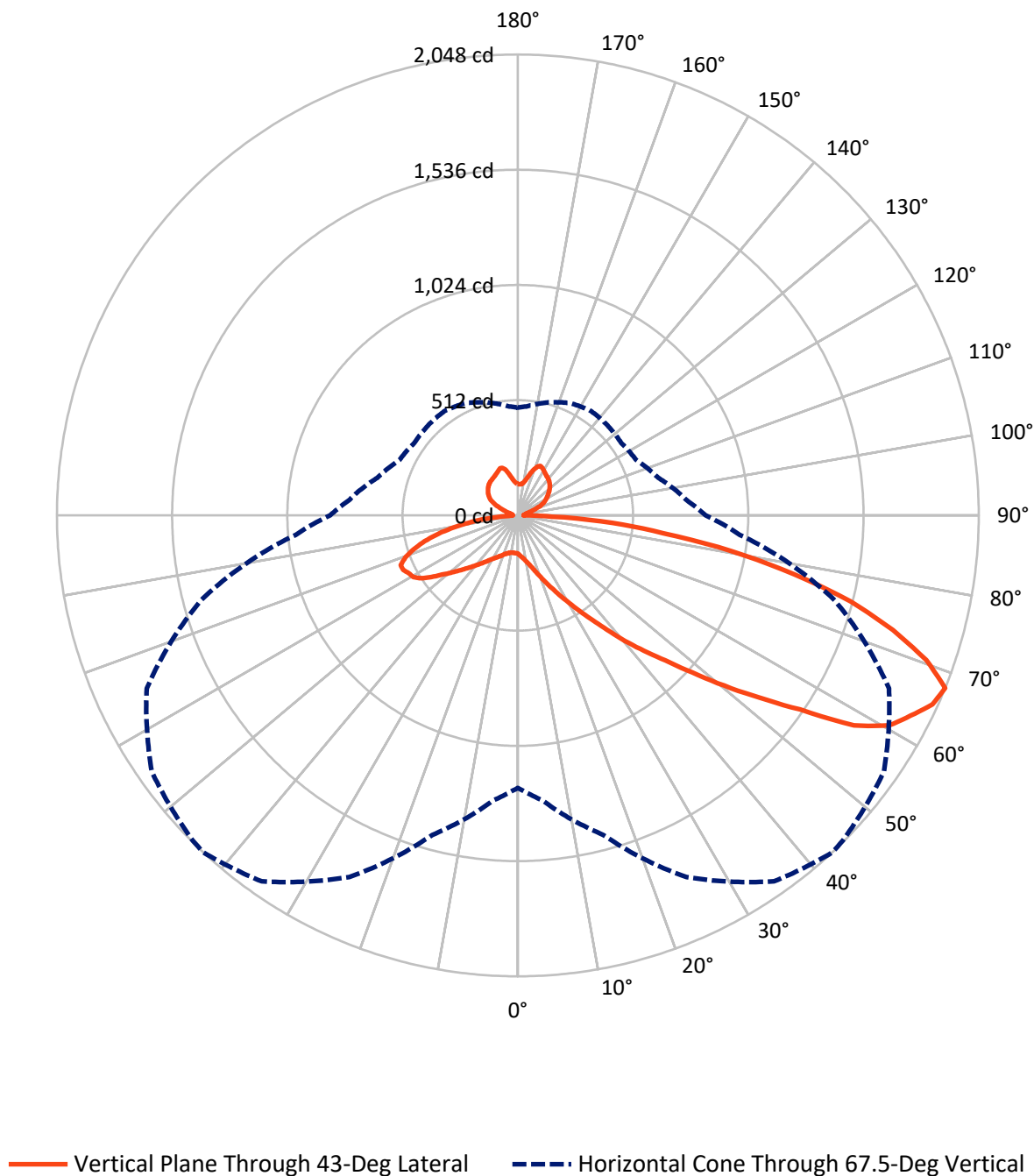


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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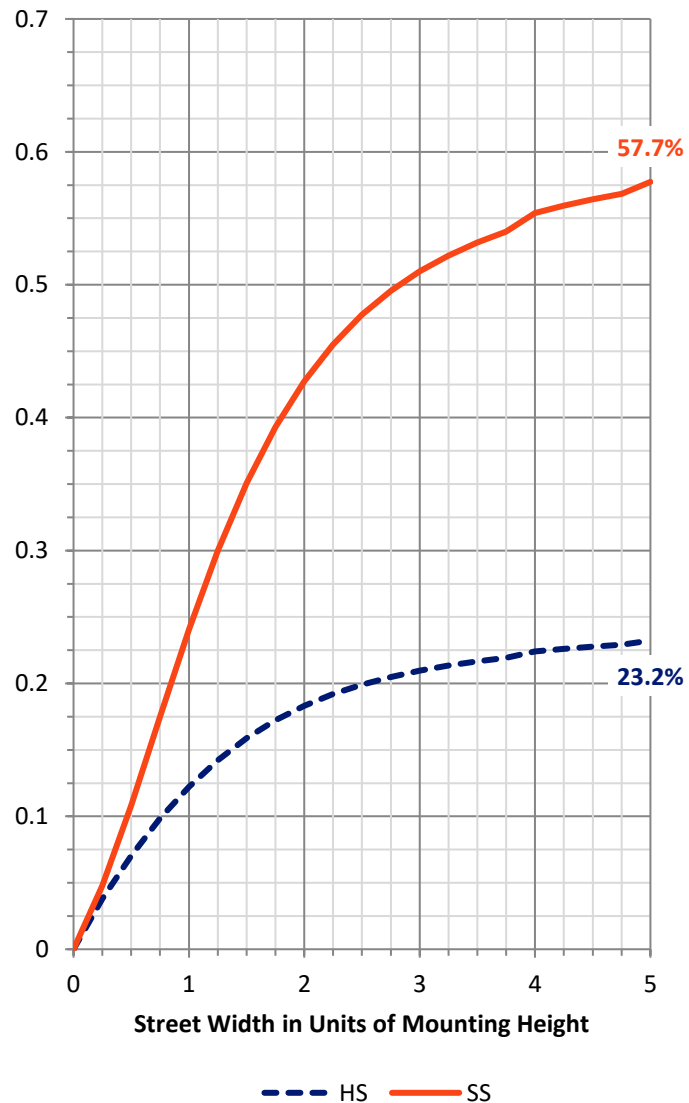
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.0	387.3	1519.3
	% Fixture	23.8	8.1	31.9
Street Side	Lumens	2830.6	412.6	3243.2
	% Fixture	59.4	8.7	68.1
Total	Lumens	3962.5	799.9	4762.5
	% Fixture	83.2	16.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	0.4
10°-20°	60.0	1.3
20°-30°	129.9	2.7
30°-40°	250.9	5.3
40°-50°	460.7	9.7
50°-60°	795.6	16.7
60°-70°	1075.9	22.6
70°-80°	901.0	18.9
80°-90°	271.4	5.7
90°-100°	36.3	0.8
100°-110°	55.2	1.2
110°-120°	110.8	2.3
120°-130°	144.2	3.0
130°-140°	148.0	3.1
140°-150°	133.4	2.8
150°-160°	102.6	2.2
160°-170°	55.1	1.2
170°-180°	14.3	0.3
0°-90°	3962.5	83.2
0°-180°	4762.5	100.0

Coefficient of Utilization



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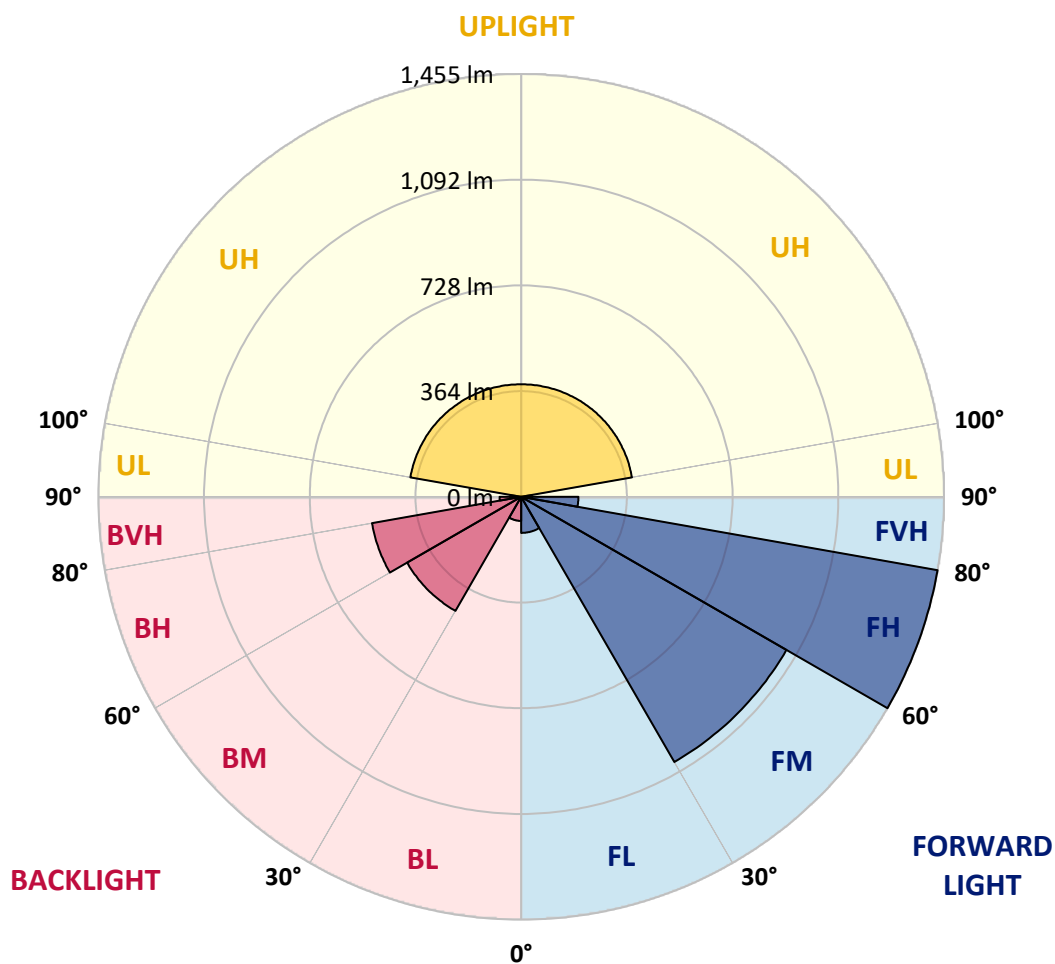
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.3	2.6			
FM	(30°-60°)	1054.0	22.1			
FH	(60°-80°)	1455.4	30.6			G1/1800
FVH	(80°-90°)	197.0	4.1			G2/225
BL	(0°-30°)	82.8	1.7	B0/110		
BM	(30°-60°)	453.2	9.5	B1/1000		
BH	(60°-80°)	521.5	11.0	B2/1000		G2/1000
BVH	(80°-90°)	74.4	1.6			G1/100
UL	(90°-100°)	36.3	0.8		U2/50	
UH	(100°-180°)	387.3	8.1		U3/500	

BUG Rating: B2-U4-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
2.5°	180.2	180.2	179.5	179.5	178.7	178.0	177.2	177.2	175.7	175.0	174.2
5°	190.1	190.1	190.1	188.5	187.0	186.3	186.3	184.0	181.8	179.5	177.2
7.5°	202.1	201.4	201.4	199.9	197.6	195.3	194.6	193.1	189.3	186.3	181.8
10°	215.7	215.7	215.7	212.7	210.4	208.2	206.6	203.6	199.1	193.8	189.3
12.5°	232.3	232.3	233.0	229.3	227.0	222.5	221.7	217.2	211.2	203.6	196.8
15°	251.1	254.2	251.9	251.9	244.4	242.1	240.6	235.3	227.0	217.2	208.2
17.5°	278.3	277.5	274.5	275.3	270.0	266.2	262.5	253.4	244.4	230.8	218.7
20°	309.2	307.7	303.9	302.4	299.4	292.6	291.1	279.0	264.7	250.4	234.5
22.5°	339.4	340.1	338.6	335.6	332.6	327.3	324.3	311.5	291.1	272.3	248.9
25°	369.5	372.6	372.6	374.8	369.5	362.8	360.5	345.4	322.8	294.1	269.2
27.5°	407.3	408.0	410.3	413.3	411.8	405.7	401.2	384.6	356.7	325.1	291.9
30°	445.0	448.0	449.5	455.5	457.0	452.5	448.0	429.1	400.5	359.0	316.8
32.5°	485.7	490.2	493.2	501.5	511.3	508.3	506.8	484.9	451.0	402.7	350.7
35°	531.7	532.4	542.3	561.1	569.4	570.9	567.1	552.1	510.6	453.3	388.4
37.5°	575.4	579.2	595.8	619.9	634.3	644.1	645.6	631.2	585.2	512.8	429.9
40°	623.7	626.0	653.1	678.8	717.2	733.1	729.3	714.2	664.4	581.5	478.9
42.5°	673.5	681.0	706.7	748.9	796.4	822.8	829.6	811.5	761.7	662.9	542.3
45°	721.7	733.8	761.7	816.8	887.7	919.3	926.1	935.2	888.4	764.7	626.7
47.5°	774.5	781.3	823.6	896.7	974.4	1042.3	1061.9	1068.7	997.0	860.5	686.3
50°	829.6	831.1	889.9	989.5	1110.9	1189.3	1190.8	1225.5	1134.3	981.9	759.5
52.5°	888.4	889.9	959.3	1087.5	1247.4	1345.5	1365.1	1376.4	1329.6	1139.6	894.5
55°	946.5	950.3	1036.2	1220.3	1418.6	1521.9	1567.9	1617.0	1506.1	1261.7	943.5
57.5°	1007.6	1015.1	1141.1	1365.1	1607.2	1761.8	1785.1	1792.7	1619.2	1310.8	958.6
60°	1063.4	1080.0	1250.4	1505.3	1766.3	1896.0	1899.0	1855.3	1662.2	1339.4	959.3
62.5°	1121.5	1142.6	1350.7	1639.6	1888.5	1959.4	1966.9	1896.8	1737.6	1435.2	1025.7
65°	1165.2	1204.4	1426.2	1733.9	1936.7	2025.0	2038.5	2018.9	1856.0	1500.1	1048.3
67.5°	1210.5	1272.3	1469.9	1773.1	1985.0	2048.3	2043.1	1985.8	1819.8	1457.8	991.0
70°	1267.8	1313.0	1503.8	1759.5	1915.6	1925.4	1925.4	1854.5	1705.2	1373.4	920.9
72.5°	1290.4	1325.8	1466.1	1650.9	1745.9	1742.9	1729.3	1690.1	1549.1	1243.6	816.8
75°	1266.3	1270.8	1335.6	1448.0	1519.7	1527.2	1511.4	1456.3	1345.5	1078.5	699.1
77.5°	1135.8	1125.2	1140.3	1196.1	1259.5	1254.2	1251.9	1189.3	1103.4	889.9	573.9
80°	894.5	900.5	901.2	911.8	950.3	963.8	949.5	902.0	843.9	692.3	444.2
82.5°	614.7	624.5	633.5	619.9	636.5	651.6	649.3	604.1	585.2	485.7	307.0
85°	331.1	354.5	359.7	367.3	404.2	422.3	415.6	381.6	355.2	300.2	185.5
87.5°	67.1	55.1	78.4	111.6	141.0	152.3	171.2	129.0	102.6	75.4	42.2
90°	36.0	36.0	36.0	34.0	29.0	26.4	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	30.4	30.0	30.0	34.0	37.0	39.0
97.5°	42.0	42.0	40.0	37.0	35.0	33.4	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	51.6	52.0	54.0	53.0	49.0	48.0
107.5°	72.0	72.0	70.0	67.0	66.0	67.2	68.0	68.0	66.0	60.0	59.0
110°	86.0	86.0	89.0	85.0	86.0	86.6	87.0	84.0	84.0	78.0	74.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
112.5°	101.0	102.0	108.0	107.0	110.0	107.4	107.0	102.0	105.0	100.0	95.0
115°	121.0	122.0	128.0	128.0	129.0	124.8	124.0	121.0	125.0	123.0	116.0
117.5°	140.0	141.0	144.0	141.0	141.0	136.8	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	157.2	158.0	159.0	162.0	155.0	153.0
125°	169.0	169.0	172.0	163.0	165.0	167.2	168.0	167.0	168.0	163.0	160.0
127.5°	177.0	177.0	181.0	171.0	176.0	177.6	178.0	176.0	175.0	173.0	166.0
130°	187.0	188.0	191.0	179.0	186.0	186.4	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	201.4	201.0	196.0	201.0	199.0	185.0
137.5°	221.0	219.0	213.0	197.0	205.0	207.6	208.0	203.0	210.0	204.0	191.0
140°	229.0	226.0	216.0	200.0	207.0	211.8	213.0	212.0	217.0	209.0	195.0
142.5°	235.0	231.0	218.0	201.0	208.0	215.6	218.0	220.0	223.0	211.0	198.0
145°	235.0	230.0	218.0	202.0	211.0	219.8	223.0	230.0	227.0	211.0	201.0
147.5°	230.0	227.0	219.0	207.0	216.0	225.4	229.0	239.0	229.0	212.0	204.0
150°	224.0	221.0	220.0	214.0	222.0	231.8	235.0	242.0	232.0	214.0	210.0
152.5°	216.0	214.0	221.0	220.0	230.0	238.2	241.0	242.0	235.0	219.0	215.0
155°	208.0	207.0	219.0	224.0	237.0	241.4	243.0	238.0	234.0	224.0	220.0
157.5°	203.0	203.0	216.0	224.0	234.0	233.8	235.0	228.0	229.0	226.0	222.0
160°	199.0	198.0	210.0	213.0	219.0	217.8	219.0	215.0	219.0	221.0	218.0
162.5°	185.0	184.0	193.0	193.0	198.0	196.8	198.0	196.0	200.0	204.0	207.0
165°	169.0	167.0	173.0	173.0	176.0	175.8	177.0	176.0	181.0	185.0	190.0
167.5°	154.0	152.0	156.0	155.0	159.0	158.2	159.0	160.0	165.0	168.0	172.0
170°	142.0	141.0	145.0	144.0	147.0	146.6	147.0	148.0	152.0	155.0	159.0
172.5°	137.0	135.0	139.0	138.0	141.0	140.6	141.0	141.0	145.0	146.0	149.0
175°	136.0	134.0	137.0	137.0	139.0	138.6	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°	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4	170.4
2.5°	173.5	172.7	172.0	170.4	168.9	168.2	167.4	166.7	166.7	166.7	166.7
5°	176.5	175.7	173.5	172.0	169.7	168.2	166.7	165.9	164.4	163.7	164.4
7.5°	180.2	178.7	175.0	172.0	169.7	167.4	165.9	165.2	164.4	162.9	162.9
10°	186.3	184.0	178.7	174.2	171.2	168.2	165.9	165.2	164.4	163.7	163.7
12.5°	194.6	190.1	184.0	178.7	173.5	169.7	168.2	166.7	165.9	165.9	165.9
15°	202.9	199.1	190.8	182.5	177.2	174.2	172.0	169.7	169.7	169.7	169.7
17.5°	214.2	207.4	197.6	188.5	182.5	178.0	176.5	175.0	175.0	175.7	175.7
20°	226.3	218.7	206.6	196.8	189.3	184.0	182.5	181.8	181.8	182.5	182.5
22.5°	239.8	230.8	215.7	204.4	196.8	193.1	190.1	190.1	190.1	190.8	191.6
25°	257.9	245.1	227.0	214.2	205.1	200.6	199.1	199.1	199.1	200.6	200.6
27.5°	276.8	263.2	239.8	224.0	214.9	210.4	208.2	208.9	209.7	210.4	210.4
30°	298.7	282.8	254.2	237.6	226.3	221.0	218.7	219.5	220.2	221.7	220.2
32.5°	325.8	306.2	273.8	251.9	239.1	233.8	232.3	233.0	233.0	233.0	233.8
35°	362.0	337.1	297.1	269.2	256.4	248.9	247.4	247.4	247.4	246.6	246.6
37.5°	397.5	365.8	320.5	292.6	276.0	267.0	262.5	262.5	262.5	262.5	262.5
40°	438.9	402.0	350.7	317.5	297.9	286.6	280.6	278.3	277.5	276.8	275.3
42.5°	492.5	450.2	385.4	344.7	321.3	309.2	300.2	295.6	292.6	291.9	289.6
45°	564.1	512.1	437.4	384.6	350.7	334.1	323.5	314.5	309.2	307.7	303.9
47.5°	616.9	556.6	473.6	419.3	383.9	362.8	346.9	334.9	327.3	323.5	321.3
50°	672.0	615.4	524.2	457.0	420.8	396.7	376.3	359.7	346.2	340.9	340.1
52.5°	792.6	717.2	593.5	510.6	458.5	431.4	410.3	390.7	369.5	360.5	362.8
55°	830.3	751.9	636.5	562.6	509.1	477.4	447.2	421.6	397.5	381.6	382.4
57.5°	834.9	754.9	645.6	580.0	543.8	518.1	491.7	456.3	426.9	405.0	404.2
60°	828.8	749.7	643.3	577.7	550.5	543.0	526.4	495.5	453.3	427.6	424.6
62.5°	876.4	791.9	667.4	586.0	552.1	549.0	543.8	525.7	482.7	449.5	444.2
65°	885.4	797.2	680.3	607.9	576.2	564.9	558.8	537.7	509.8	467.6	463.8
67.5°	834.1	754.9	645.6	580.7	561.1	564.9	566.4	550.5	519.6	486.4	478.9
70°	773.0	693.8	599.6	537.0	523.4	530.9	545.3	545.3	522.6	494.7	495.5
72.5°	681.8	617.7	531.7	486.4	472.9	482.7	499.3	512.1	506.1	496.2	497.0
75°	583.7	527.9	457.0	423.8	414.0	426.1	442.7	457.8	466.8	473.6	478.1
77.5°	480.4	438.9	379.4	347.7	347.7	359.0	374.8	388.4	403.5	420.8	423.8
80°	369.5	336.4	292.6	270.7	273.0	282.1	298.7	310.7	319.8	334.9	337.1
82.5°	260.9	241.3	204.4	188.5	192.3	204.4	211.9	220.2	227.0	230.8	235.3
85°	153.9	138.8	122.2	116.9	116.9	121.4	131.2	132.7	133.5	134.2	133.5
87.5°	38.5	42.2	36.2	35.4	35.4	38.5	37.0	40.0	40.0	41.5	38.5
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)