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: P821539

Luminaire Tested: **TT-D2-740-12VDC-RW-UPL**

Issue Date: 10/29/2020

Report Generated By 670245763

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P821539
	REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab:	INNOVATION CENTER
Issue Date:	10/29/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	TT-D2-740-12VDC-RW-UPL
Description:	TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
	4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5104.7 lumens
Efficiency:	N/A
Efficacy:	134.3 lumens/watt
Luminous Opening:	Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U4 - G3

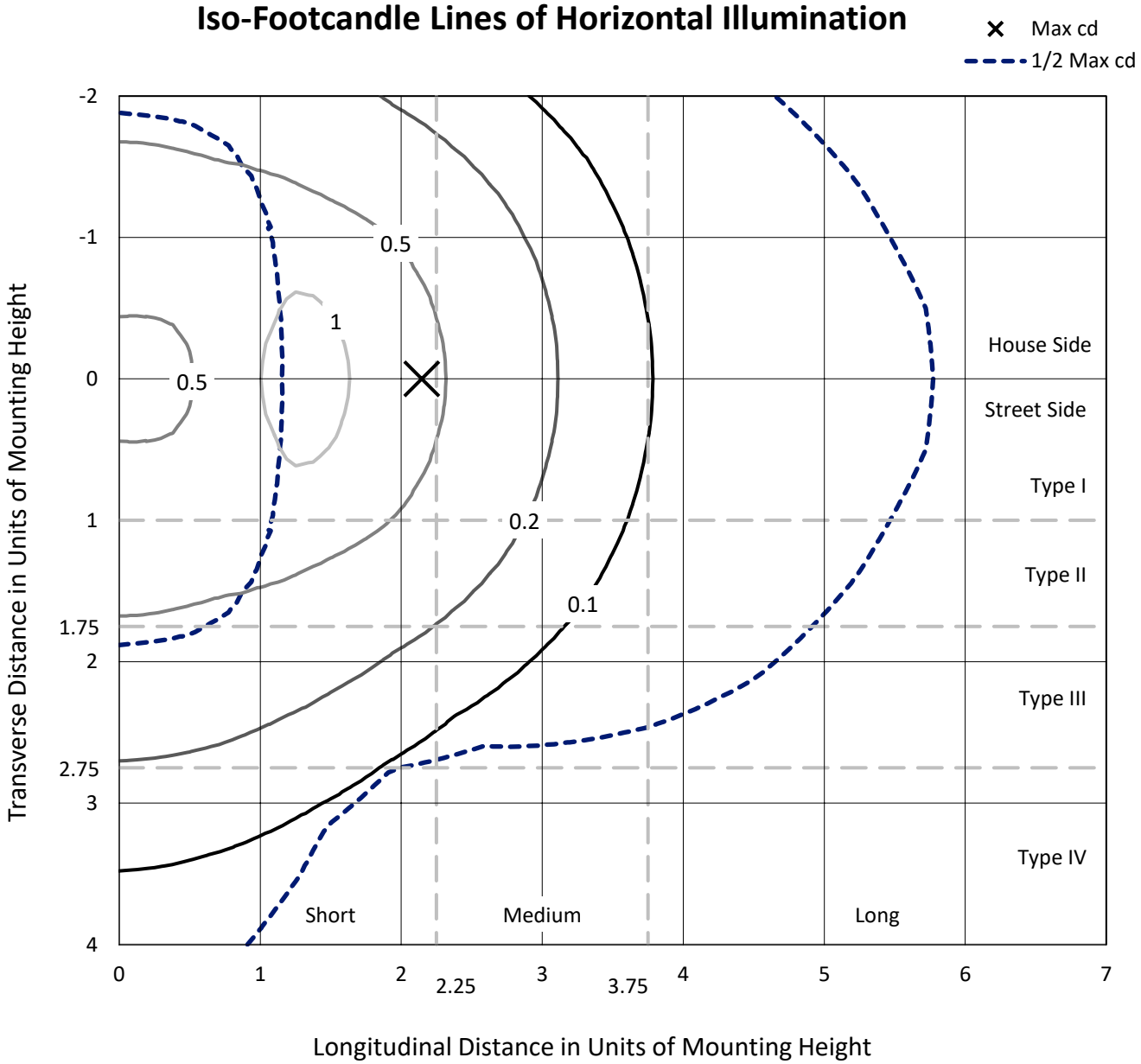
Input Watts (W):	38
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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Iso-Footcandle Lines of Horizontal Illumination



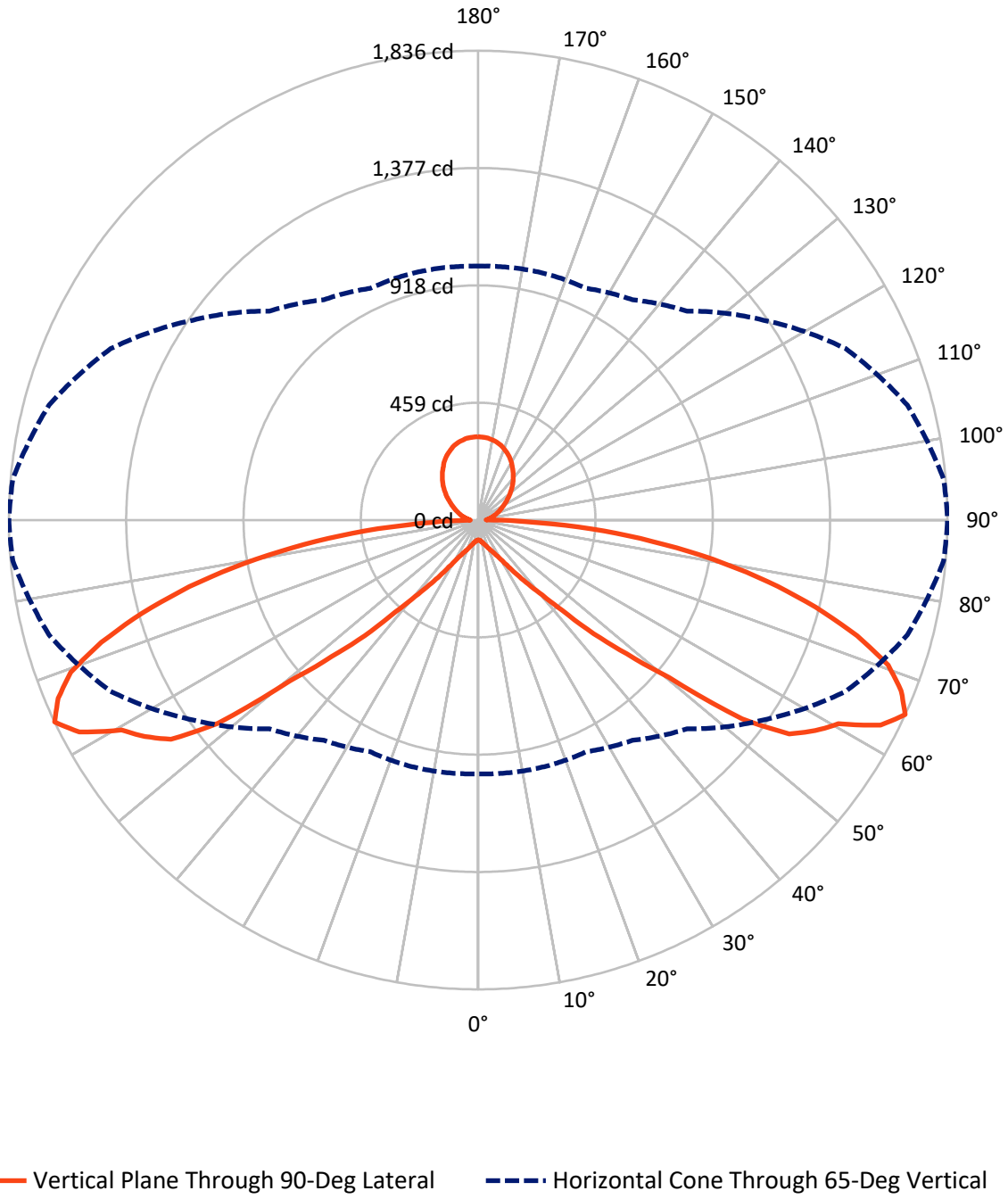
Based on 15 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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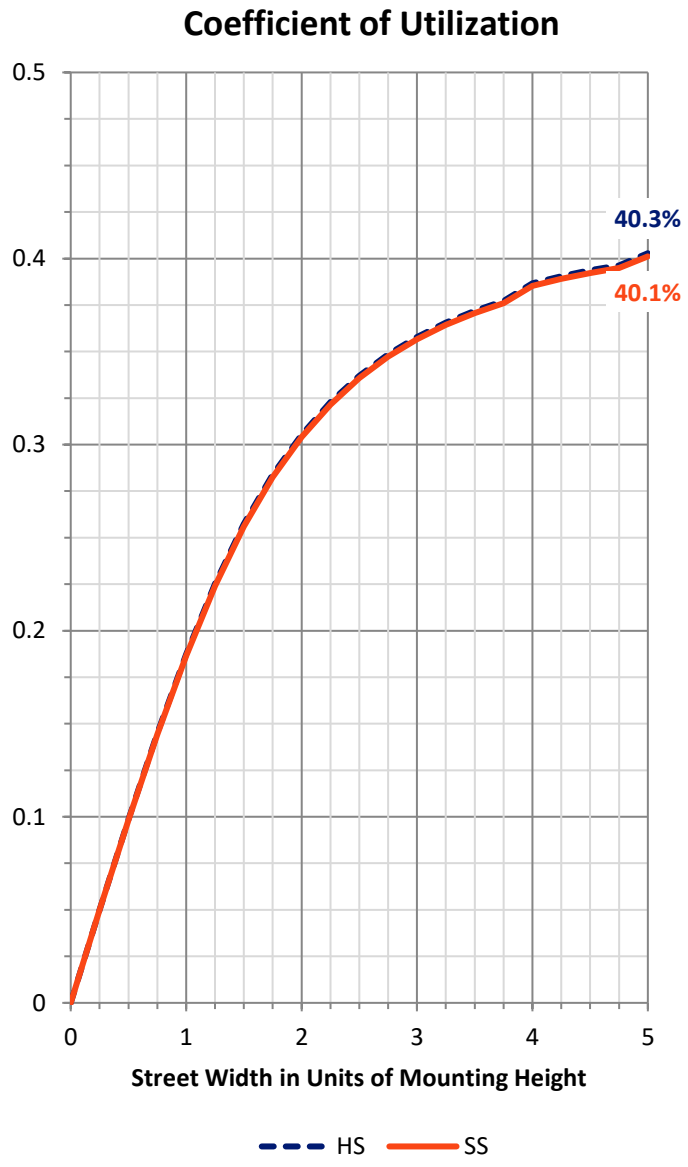
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.6	442.7	2552.3
	% Fixture	41.3	8.7	50.0
Street Side	Lumens	2109.6	442.7	2552.3
	% Fixture	41.3	8.7	50.0
Total	Lumens	4219.2	885.5	5104.7
	% Fixture	82.7	17.3	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.2
10°-20°	30.1	0.6
20°-30°	69.4	1.4
30°-40°	157.0	3.1
40°-50°	382.6	7.5
50°-60°	860.3	16.9
60°-70°	1257.2	24.6
70°-80°	1095.5	21.5
80°-90°	359.1	7.0
90°-100°	45.4	0.9
100°-110°	70.3	1.4
110°-120°	97.7	1.9
120°-130°	126.6	2.5
130°-140°	147.6	2.9
140°-150°	149.5	2.9
150°-160°	129.8	2.5
160°-170°	87.7	1.7
170°-180°	30.8	0.6
0°-90°	4219.2	82.7
0°-180°	5104.7	100.0



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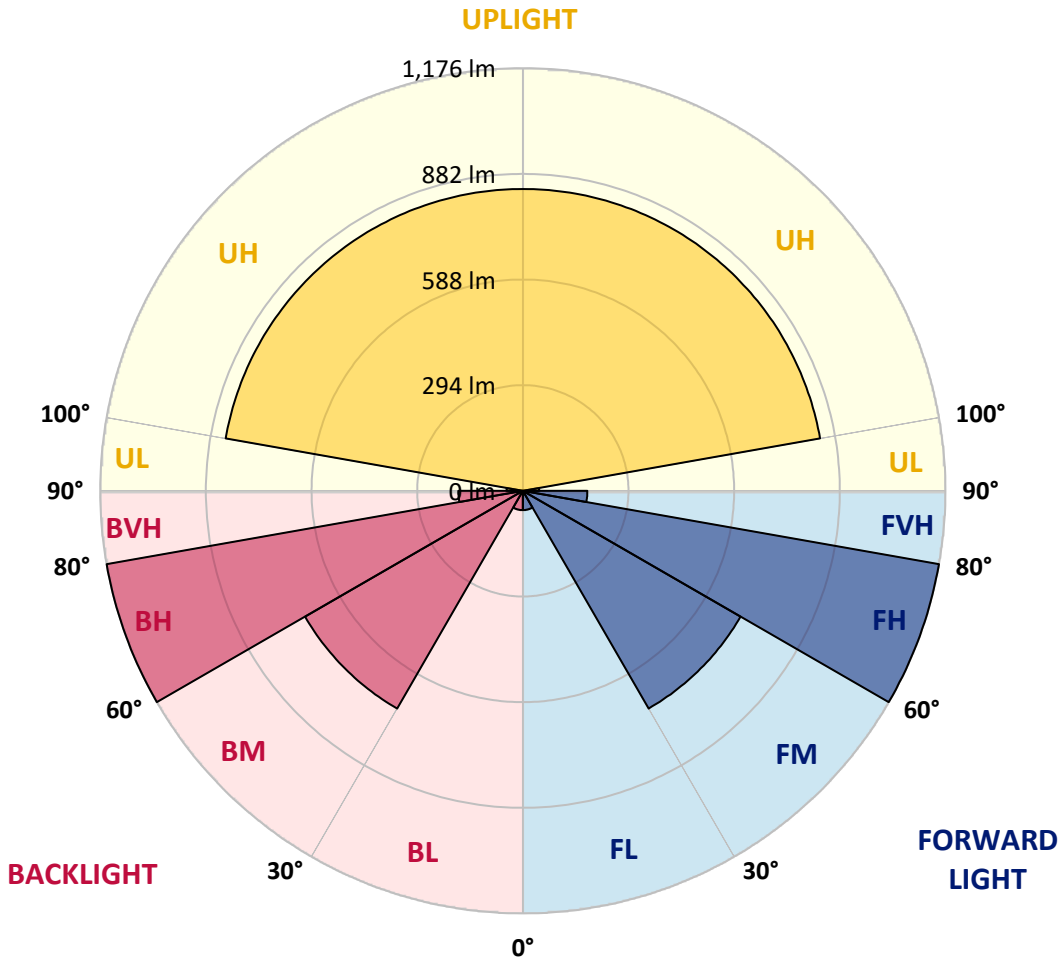
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	53.8	1.1			
FM	(30°-60°)	699.9	13.7			
FH	(60°-80°)	1176.4	23.0			G1/1800
FVH	(80°-90°)	179.6	3.5			G2/225
BL	(0°-30°)	53.8	1.1	B0/110		
BM	(30°-60°)	699.9	13.7	B1/1000		
BH	(60°-80°)	1176.4	23.0	B3/2500		G3/2500
BVH	(80°-90°)	179.6	3.5			G2/225
UL	(90°-100°)	45.4	0.9		U2/50	
UH	(100°-180°)	840.1	16.5		U4/1000	

BUG Rating: B3-U4-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	*77.0*
2.5°	78.0	78.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	*79.0*
5°	81.0	81.0	81.0	81.0	82.0	82.0	81.0	81.0	81.0	81.0	*81.0*
7.5°	86.0	85.0	86.0	86.0	86.0	85.0	85.0	85.0	84.0	84.0	*84.0*
10°	91.0	91.0	92.0	91.0	91.0	90.0	90.0	90.0	89.0	89.0	*89.0*
12.5°	98.0	98.0	98.0	98.0	97.0	97.0	96.0	95.0	94.0	94.0	*94.0*
15°	107.0	106.0	106.0	105.0	104.0	103.0	102.0	102.0	101.0	101.0	*101.0*
17.5°	116.0	116.0	115.0	114.0	112.0	111.0	111.0	110.0	109.0	109.0	*109.0*
20°	127.0	127.0	126.0	124.0	122.0	121.0	120.0	120.0	119.0	119.0	*119.0*
22.5°	140.0	139.0	137.0	135.0	133.0	132.0	131.0	130.0	130.0	130.0	*130.0*
25°	154.0	153.0	152.0	149.0	146.0	145.0	143.0	143.0	142.0	143.0	*143.0*
27.5°	171.0	170.0	168.0	165.0	161.0	159.0	158.0	158.0	159.0	159.0	*160.0*
30°	192.0	190.0	188.0	184.0	180.0	177.0	177.0	178.0	181.0	183.0	*183.0*
32.5°	217.0	216.0	213.0	209.0	202.0	200.0	202.0	208.0	212.0	215.0	*217.0*
35°	246.0	245.0	241.0	234.0	229.0	228.0	234.0	244.0	257.0	261.0	*263.0*
37.5°	278.0	279.0	274.0	266.0	261.0	263.0	275.0	294.0	307.0	316.0	*318.0*
40°	318.0	320.0	314.0	305.0	300.0	308.0	327.0	349.0	372.0	383.0	*386.0*
42.5°	365.0	368.0	360.0	351.0	348.0	361.0	388.0	424.0	465.1	478.1	*483.1*
45°	423.0	425.0	415.0	407.0	405.0	428.0	474.1	534.1	599.1	629.1	*634.1*
47.5°	492.1	491.1	482.1	472.1	474.1	507.1	576.1	657.1	726.1	772.1	*782.1*
50°	571.1	566.1	559.1	547.1	560.1	608.1	695.1	793.1	909.1	950.1	*968.1*
52.5°	650.1	641.1	635.1	627.1	650.1	712.1	834.1	1005.1	1180.1	1274.1	*1293.1*
55°	721.1	714.1	711.1	712.1	748.1	837.1	997.1	1216.1	1385.2	1463.2	*1477.2*
57.5°	791.1	787.1	784.1	790.1	847.1	963.1	1143.1	1348.2	1487.2	1545.2	*1555.2*
60°	857.1	861.1	859.1	877.1	946.1	1063.1	1219.1	1421.2	1555.2	1608.2	*1619.2*
62.5°	930.1	933.1	933.1	953.1	1009.1	1112.1	1271.1	1507.2	1677.2	1755.2	*1767.2*
65°	*993.1*	*995.1*	*999.1*	*1000.1*	*1052.1*	*1155.1*	*1363.2*	*1586.2*	*1738.2*	*1828.2*	*1836.2*
67.5°	1040.1	1042.1	1037.1	1032.1	1072.1	1165.1	1356.2	1576.2	1711.2	1779.2	*1785.2*
70°	1078.1	1069.1	1055.1	1030.1	1043.1	1113.1	1298.1	1496.2	1632.2	1693.2	*1702.2*
72.5°	1083.1	1075.1	1031.1	975.1	959.1	1020.1	1196.1	1374.2	1491.2	1549.2	*1550.2*
75°	1053.1	1032.1	959.1	875.1	845.1	903.1	1054.1	1216.1	1310.1	1359.2	*1364.2*
77.5°	952.1	932.1	840.1	744.1	710.1	760.1	888.1	1019.1	1109.1	1157.1	*1160.1*
80°	773.1	766.1	682.1	594.1	553.1	582.1	694.1	797.1	870.1	927.1	*932.1*
82.5°	570.1	564.1	500.1	423.0	390.0	414.0	494.1	570.1	638.1	684.1	*687.1*
85°	356.0	344.0	304.0	250.0	228.0	244.0	297.0	348.0	409.0	445.1	*447.1*
87.5°	119.0	114.0	98.0	81.0	68.0	71.0	87.0	106.0	155.0	171.0	*181.0*
90°	32.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	*31.0*
92.5°	37.0	37.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	*36.0*
95°	42.0	42.0	42.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	*41.0*
97.5°	48.0	48.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	*47.0*
100°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	*53.0*
102.5°	60.0	59.0	60.0	60.0	59.0	59.0	59.0	60.0	60.0	60.0	*59.0*
105°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	67.0	66.0	66.0	*66.0*
107.5°	73.0	73.0	73.0	74.0	74.0	74.0	74.0	74.0	73.0	74.0	*73.0*
110°	80.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	*81.0*

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	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.0	89.0	89.0	89.0	89.0	90.0	90.0	90.0	90.0	90.0	*89.0*
115°	97.0	97.0	98.0	98.0	98.0	98.0	99.0	99.0	98.0	98.0	*98.0*
117.5°	107.0	107.0	107.0	107.0	107.0	108.0	108.0	108.0	108.0	108.0	*107.0*
120°	117.0	117.0	117.0	118.0	118.0	118.0	119.0	119.0	118.0	118.0	*118.0*
122.5°	129.0	128.0	129.0	129.0	129.0	129.0	130.0	130.0	130.0	130.0	*129.0*
125°	140.0	140.0	141.0	141.0	141.0	141.0	142.0	142.0	142.0	142.0	*141.0*
127.5°	153.0	153.0	153.0	153.0	153.0	154.0	154.0	154.0	154.0	154.0	*154.0*
130°	165.0	165.0	166.0	166.0	166.0	166.0	167.0	167.0	167.0	167.0	*166.0*
132.5°	179.0	178.0	179.0	178.0	178.0	179.0	179.0	180.0	179.0	180.0	*179.0*
135°	191.0	191.0	191.0	191.0	191.0	192.0	192.0	192.0	192.0	192.0	*192.0*
137.5°	204.0	203.0	204.0	203.0	203.0	204.0	204.0	204.0	204.0	204.0	*204.0*
140°	216.0	215.0	216.0	215.0	216.0	216.0	216.0	216.0	216.0	216.0	*216.0*
142.5°	228.0	227.0	228.0	227.0	227.0	228.0	228.0	228.0	228.0	228.0	*228.0*
145°	239.0	239.0	239.0	238.0	239.0	239.0	239.0	239.0	239.0	239.0	*239.0*
147.5°	250.0	249.0	250.0	249.0	249.0	250.0	250.0	250.0	250.0	250.0	*250.0*
150°	263.0	262.0	263.0	262.0	263.0	263.0	263.0	263.0	263.0	263.0	*263.0*
152.5°	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	*273.0*
155°	282.0	282.0	283.0	282.0	282.0	282.0	283.0	282.0	282.0	282.0	*282.0*
157.5°	290.0	290.0	290.0	290.0	290.0	290.0	291.0	291.0	290.0	291.0	*290.0*
160°	298.0	298.0	299.0	298.0	298.0	298.0	299.0	298.0	298.0	298.0	*298.0*
162.5°	306.0	305.0	306.0	305.0	306.0	306.0	306.0	306.0	306.0	306.0	*306.0*
165°	311.0	311.0	312.0	311.0	311.0	311.0	312.0	311.0	311.0	311.0	*311.0*
167.5°	316.0	315.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	*316.0*
170°	319.0	319.0	320.0	319.0	319.0	319.0	320.0	319.0	319.0	319.0	*319.0*
172.5°	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	*323.0*
175°	324.0	324.0	325.0	324.0	325.0	324.0	325.0	324.0	324.0	324.0	*324.0*
177.5°	325.0	325.0	326.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	*325.0*
180°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	*326.0*

(END OF REPORT)