

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: P385446

Luminaire Tested: **GWC-SA1A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1A-727-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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: 24 FT



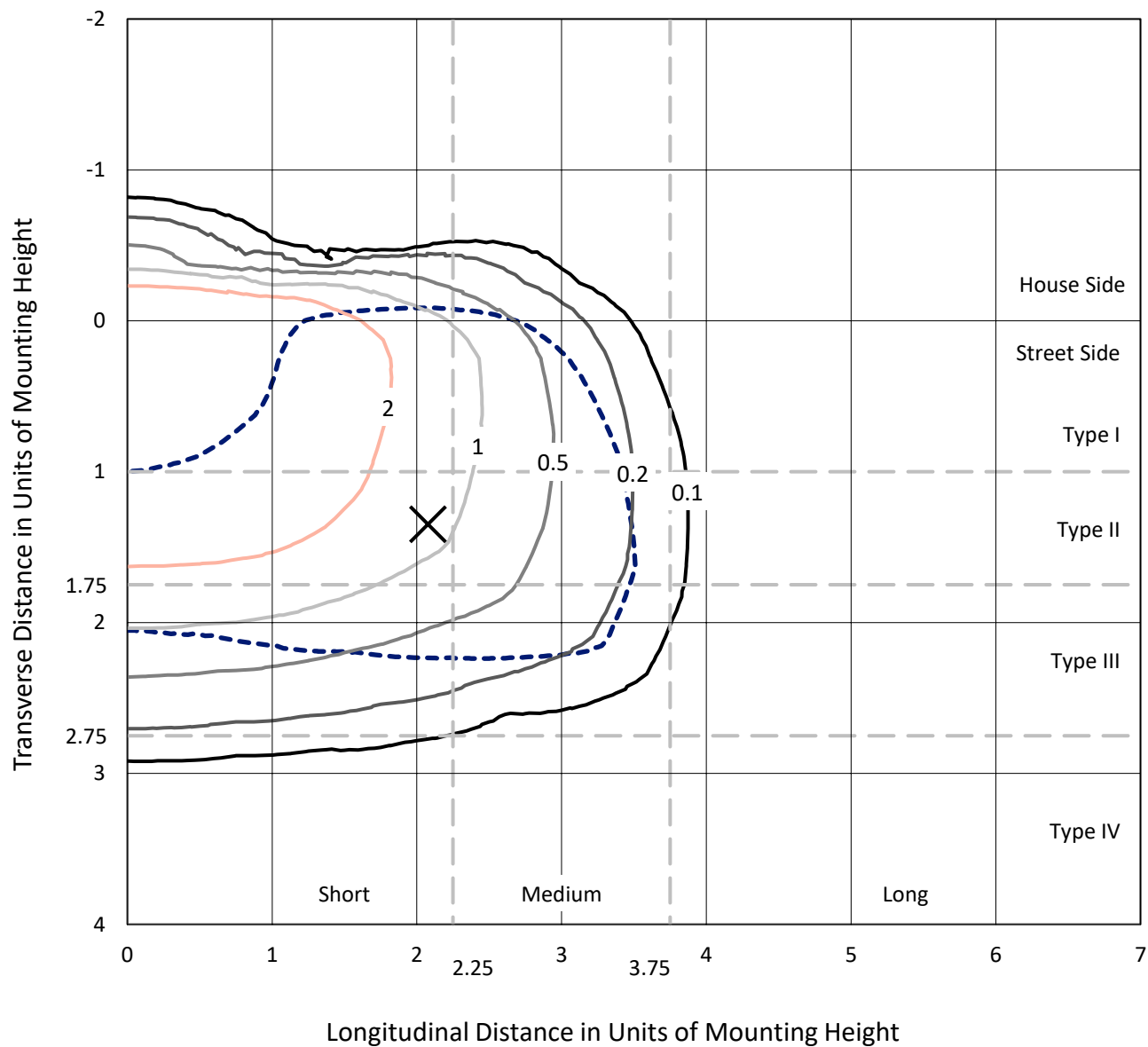
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



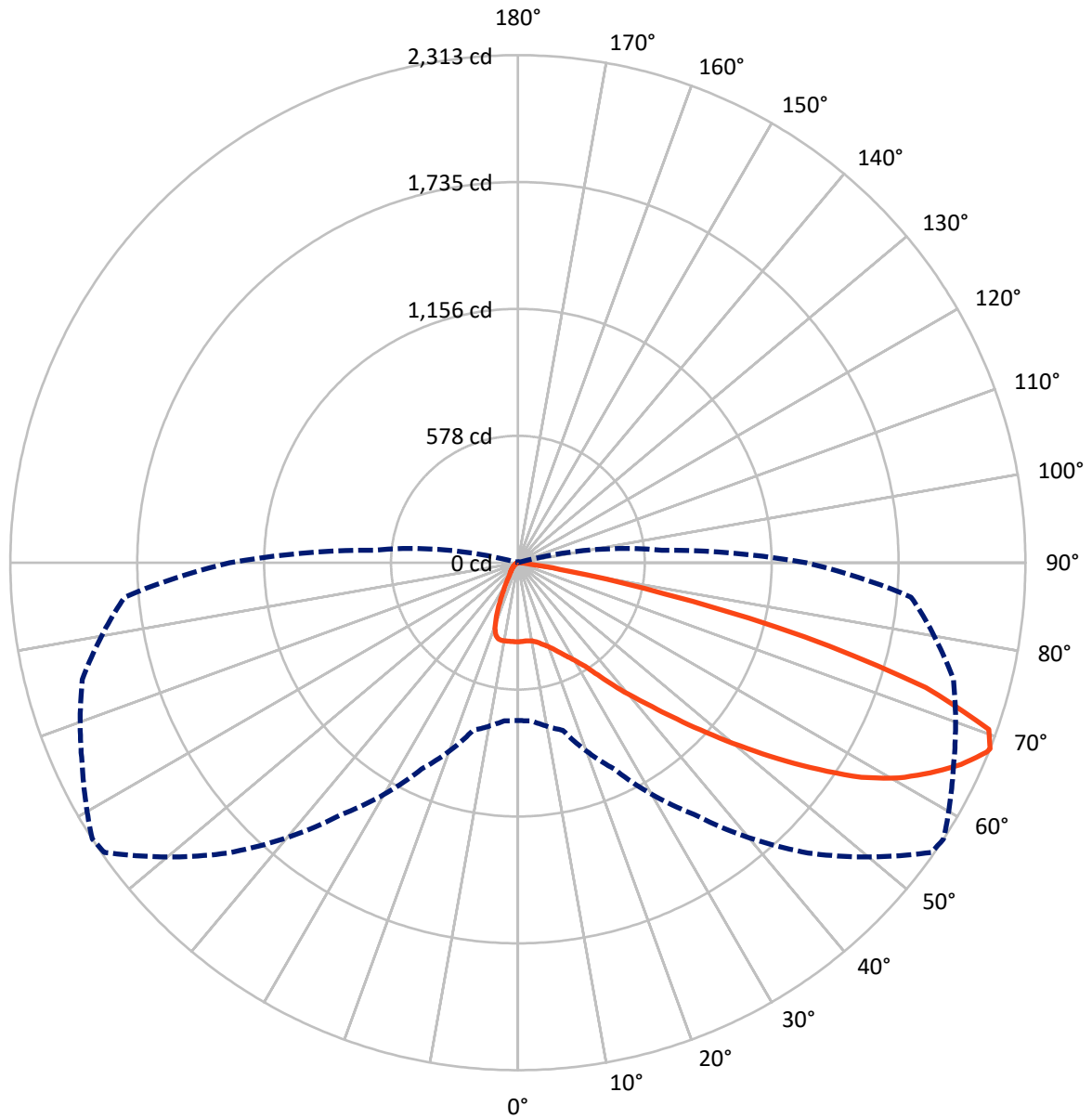
Based on 10 foot mounting height. Maximum calculated value = 4.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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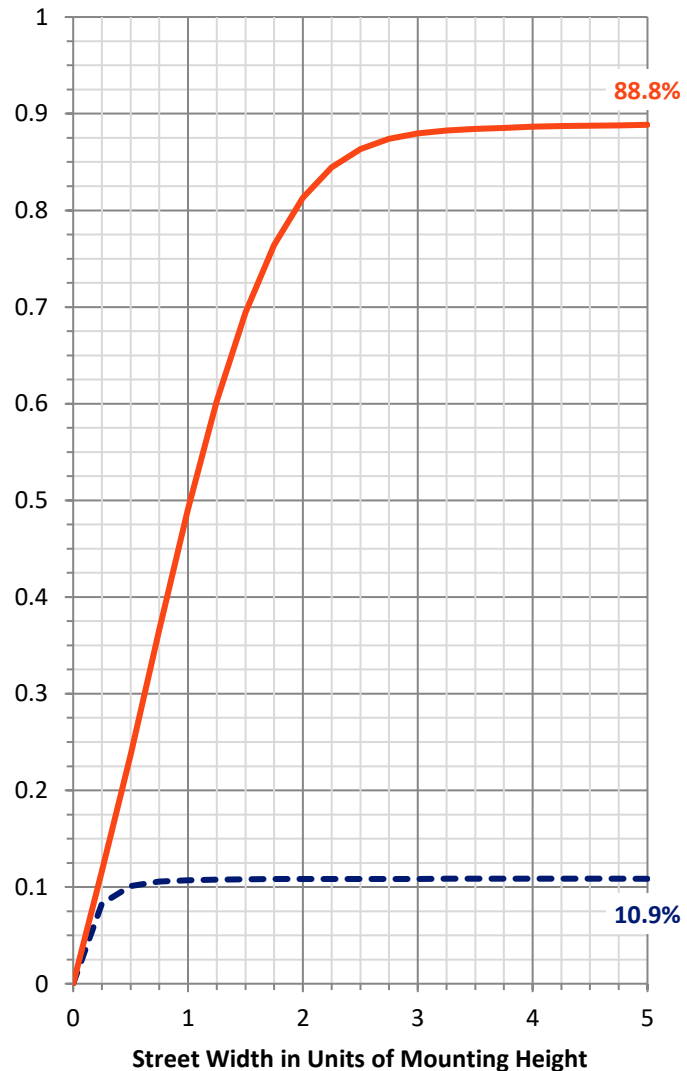
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.6	0.0	332.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2700.4	0.0	2700.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	3033.0	0.0	3033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.1
10°-20°	93.5	3.1
20°-30°	161.2	5.3
30°-40°	278.3	9.2
40°-50°	476.0	15.7
50°-60°	761.6	25.1
60°-70°	879.9	29.0
70°-80°	336.2	11.1
80°-90°	12.6	0.4
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°	3033.0	100.0
0°-180°	3033.0	100.0

Coefficient of Utilization



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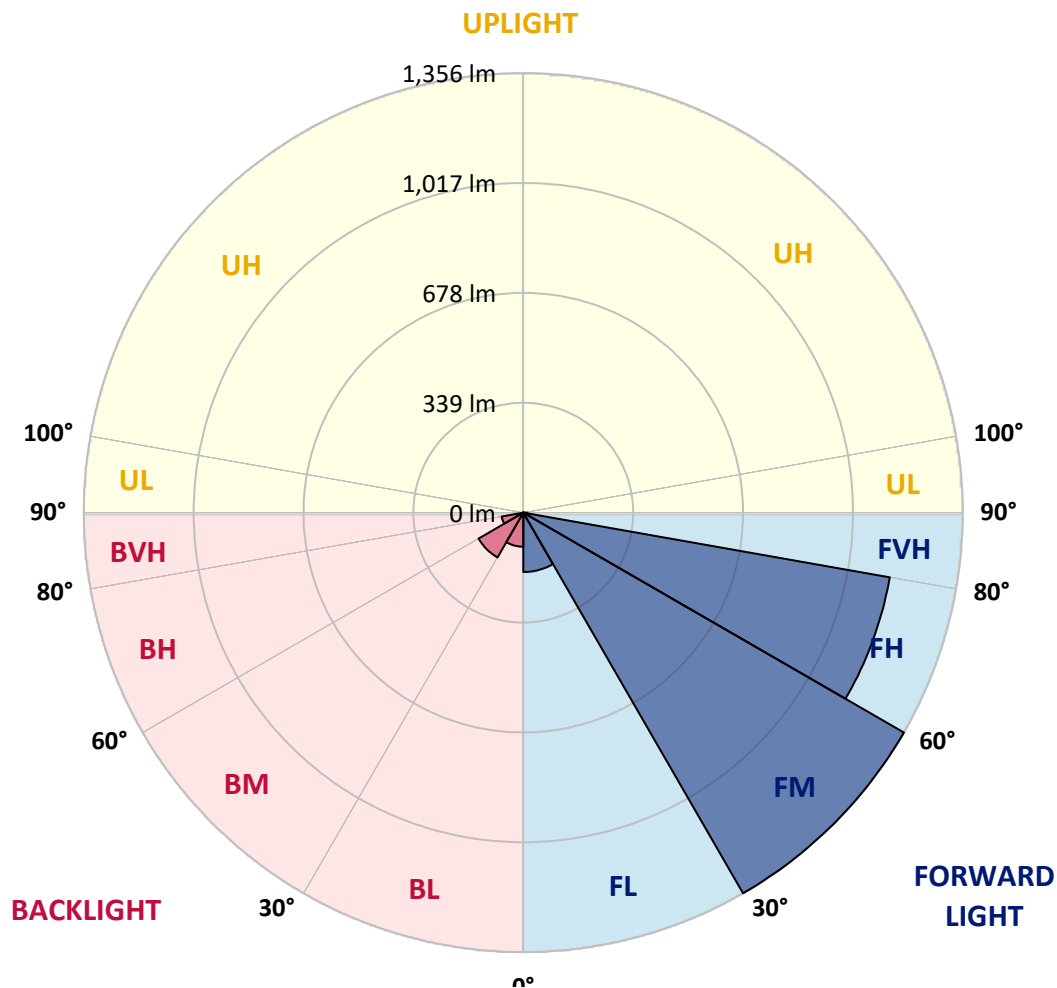
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.3	6.0			
FM	(30°-60°)	1356.3	44.7			
FH	(60°-80°)	1148.4	37.9			G1/1800
FVH	(80°-90°)	12.4	0.4			G1/100
BL	(0°-30°)	105.1	3.5	B0/110		
BM	(30°-60°)	159.5	5.3	B0/220		
BH	(60°-80°)	67.7	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4
2.5°	351.9	353.5	354.7	355.4	356.2	358.1	358.7	359.5	360.0	360.0	361.0
5°	338.0	339.7	342.2	344.2	348.2	353.4	357.1	358.5	361.1	363.4	364.7
7.5°	325.1	327.1	330.0	334.7	341.6	349.9	357.7	359.7	364.7	369.6	372.0
10°	316.8	318.4	322.1	328.8	337.9	349.5	360.4	362.8	371.4	379.6	384.2
12.5°	313.9	315.4	319.2	326.8	338.0	351.7	366.7	370.3	382.9	394.8	401.3
15°	318.1	318.4	322.5	329.7	340.8	357.0	377.2	381.5	397.4	412.9	420.9
17.5°	334.2	332.9	335.0	338.2	346.9	364.0	388.2	394.7	415.9	434.1	441.7
20°	374.3	374.3	369.4	360.8	361.0	374.9	403.1	410.5	436.4	457.5	464.4
22.5°	443.0	441.7	432.0	410.9	391.5	393.7	421.4	430.8	461.1	483.6	485.9
25°	525.6	524.0	509.0	479.3	445.7	424.1	446.0	456.9	490.5	510.4	505.7
27.5°	613.1	611.8	596.9	560.0	512.3	472.6	475.4	485.7	520.5	540.1	525.0
30°	697.9	698.3	683.5	645.7	591.6	534.4	512.7	518.7	549.6	569.5	548.0
32.5°	778.5	779.0	766.3	724.0	673.5	606.2	564.3	562.8	583.4	603.1	578.4
35°	850.3	851.7	843.0	810.1	756.7	686.2	631.3	627.6	631.5	653.7	625.0
37.5°	919.6	920.4	913.8	886.2	841.4	774.2	715.9	710.6	702.3	719.4	686.5
40°	995.4	993.3	985.7	960.6	922.2	871.2	806.8	797.7	783.2	798.4	767.4
42.5°	1066.0	1063.6	1064.9	1036.5	1004.0	971.1	912.8	897.1	888.6	906.1	866.7
45°	1154.2	1152.9	1157.2	1132.5	1106.3	1082.3	1034.3	1017.1	1013.4	1033.9	986.7
47.5°	1241.3	1244.4	1257.7	1247.3	1236.7	1215.6	1162.9	1155.2	1157.5	1182.3	1113.3
50°	1313.8	1317.5	1354.1	1366.2	1381.5	1369.2	1316.4	1311.7	1320.7	1343.1	1249.6
52.5°	1366.3	1373.9	1419.4	1474.9	1530.8	1539.1	1486.5	1482.2	1494.4	1497.8	1354.8
55°	1402.7	1409.5	1461.0	1562.5	1676.4	1712.2	1679.5	1662.9	1660.6	1626.6	1465.6
57.5°	1409.2	1408.5	1482.5	1619.1	1790.5	1883.0	1862.4	1846.0	1799.0	1745.6	1592.5
60°	1372.8	1376.9	1462.8	1638.8	1862.2	2012.2	2013.8	1992.6	1919.3	1861.4	1715.5
62.5°	1260.6	1277.5	1364.3	1587.3	1861.4	2064.3	2124.8	2108.6	2021.0	1956.2	1840.3
65°	1078.8	1084.8	1167.5	1410.9	1735.6	2042.5	2224.8	2218.8	2112.6	2048.2	1904.4
67.5°	787.8	774.7	861.6	1111.0	1469.4	1915.4	2296.5	2304.1	2183.3	2067.2	1836.1
68°	718.9	722.8	790.5	1036.9	1399.7	1870.6	2301.2	2312.8	2190.4	2054.8	1798.8
70°	428.5	436.0	496.4	713.9	1064.9	1616.6	2250.2	2276.7	2148.5	1927.6	1555.9
72.5°	109.4	118.3	175.4	319.5	608.2	1139.0	1899.5	1944.4	1865.4	1563.8	1050.4
75°	45.0	47.3	62.7	105.3	226.6	513.1	1252.0	1348.1	1293.2	936.2	474.7
77.5°	31.1	32.7	40.3	58.4	98.1	174.0	613.8	683.2	615.5	319.5	103.5
80°	22.4	23.7	28.8	38.9	56.4	62.1	200.1	231.3	183.7	70.1	25.7
82.5°	13.3	14.3	21.5	27.7	34.3	29.7	49.8	56.5	53.2	34.8	11.5
85°	6.6	7.7	14.5	19.8	18.5	12.5	15.2	16.9	20.9	21.2	6.2
87.5°	0.4	0.9	8.5	11.9	5.2	2.9	4.4	5.4	7.5	10.5	2.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4	360.4
2.5°	361.4	361.5	360.5	360.1	360.4	358.7	358.0	358.2	358.2	358.7	358.0
5°	365.0	365.0	363.3	361.0	359.7	356.4	354.2	353.7	353.2	352.9	352.4
7.5°	372.7	371.9	368.9	363.8	359.5	352.4	346.9	344.1	342.6	342.0	341.6
10°	385.2	383.6	378.6	369.3	359.4	346.6	334.7	326.3	319.2	316.4	314.7
12.5°	402.0	399.7	391.2	375.7	358.4	334.9	309.1	284.2	261.2	251.7	247.0
15°	421.4	418.1	404.7	381.2	352.5	308.3	252.3	208.8	176.8	164.8	159.6
17.5°	441.0	436.7	416.5	384.6	334.9	253.4	177.0	133.7	112.3	106.6	104.5
20°	460.8	454.5	426.7	382.1	295.0	182.7	116.7	97.7	91.5	89.8	89.2
22.5°	479.6	469.8	435.8	372.0	233.6	122.6	92.4	86.3	84.3	83.3	83.0
25°	495.9	482.3	443.9	341.0	165.4	92.6	83.2	81.2	78.6	76.7	76.9
27.5°	511.3	494.8	448.7	290.0	110.3	79.2	77.0	74.3	69.6	66.8	66.8
30°	529.8	511.4	452.3	223.2	81.2	70.0	68.3	64.1	57.7	54.1	54.1
32.5°	557.6	536.7	450.0	156.6	67.3	61.5	57.5	51.8	44.7	41.3	41.2
35°	600.2	575.7	433.7	102.7	59.4	53.5	47.0	40.0	33.8	31.0	30.8
37.5°	657.6	627.9	397.0	73.4	53.2	46.0	38.3	30.5	26.0	24.1	24.0
40°	732.0	688.5	344.5	59.5	47.5	38.9	29.5	23.7	20.5	19.1	19.2
42.5°	821.3	753.5	281.5	51.3	41.9	32.0	23.1	18.6	16.6	15.6	15.3
45°	920.6	817.6	215.6	45.7	36.3	25.8	18.1	14.8	13.2	12.6	12.6
47.5°	1029.7	880.0	157.8	40.9	30.3	19.9	14.5	12.0	10.8	10.3	10.2
50°	1128.8	923.3	113.7	35.7	24.8	15.8	11.8	10.0	9.2	8.6	8.6
52.5°	1211.4	936.9	83.8	30.1	20.1	12.6	9.8	8.6	7.7	7.3	7.3
55°	1284.1	931.3	62.2	24.8	16.2	10.3	8.3	7.3	6.6	6.2	6.2
57.5°	1353.8	913.3	46.5	20.2	13.1	8.3	7.0	6.2	5.4	5.2	5.2
60°	1410.8	883.1	34.6	16.3	10.5	6.7	5.9	5.0	4.4	4.0	4.0
62.5°	1456.9	849.9	25.4	13.5	8.3	5.3	4.6	4.2	3.3	2.9	2.9
65°	1457.2	794.7	19.1	11.2	6.5	4.2	3.4	3.3	2.2	1.7	1.6
67.5°	1351.8	685.1	14.6	9.6	5.0	3.2	2.6	2.7	1.1	0.7	0.6
68°	1313.5	657.3	13.8	9.5	4.7	3.0	2.4	2.7	1.0	0.6	0.4
70°	1107.4	522.9	11.0	9.2	4.2	2.3	2.0	2.7	0.9	0.4	0.3
72.5°	708.3	303.5	8.2	7.3	3.2	1.7	1.3	2.4	0.9	0.3	0.1
75°	301.5	94.1	5.6	5.2	1.9	1.3	0.9	1.6	0.6	0.1	0.0
77.5°	63.5	21.2	3.3	3.2	1.3	0.9	0.6	0.4	0.1	0.0	0.0
80°	16.3	6.2	1.7	1.6	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	5.2	2.4	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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