

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: P385434

Luminaire Tested: **GWC-SA1A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - 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



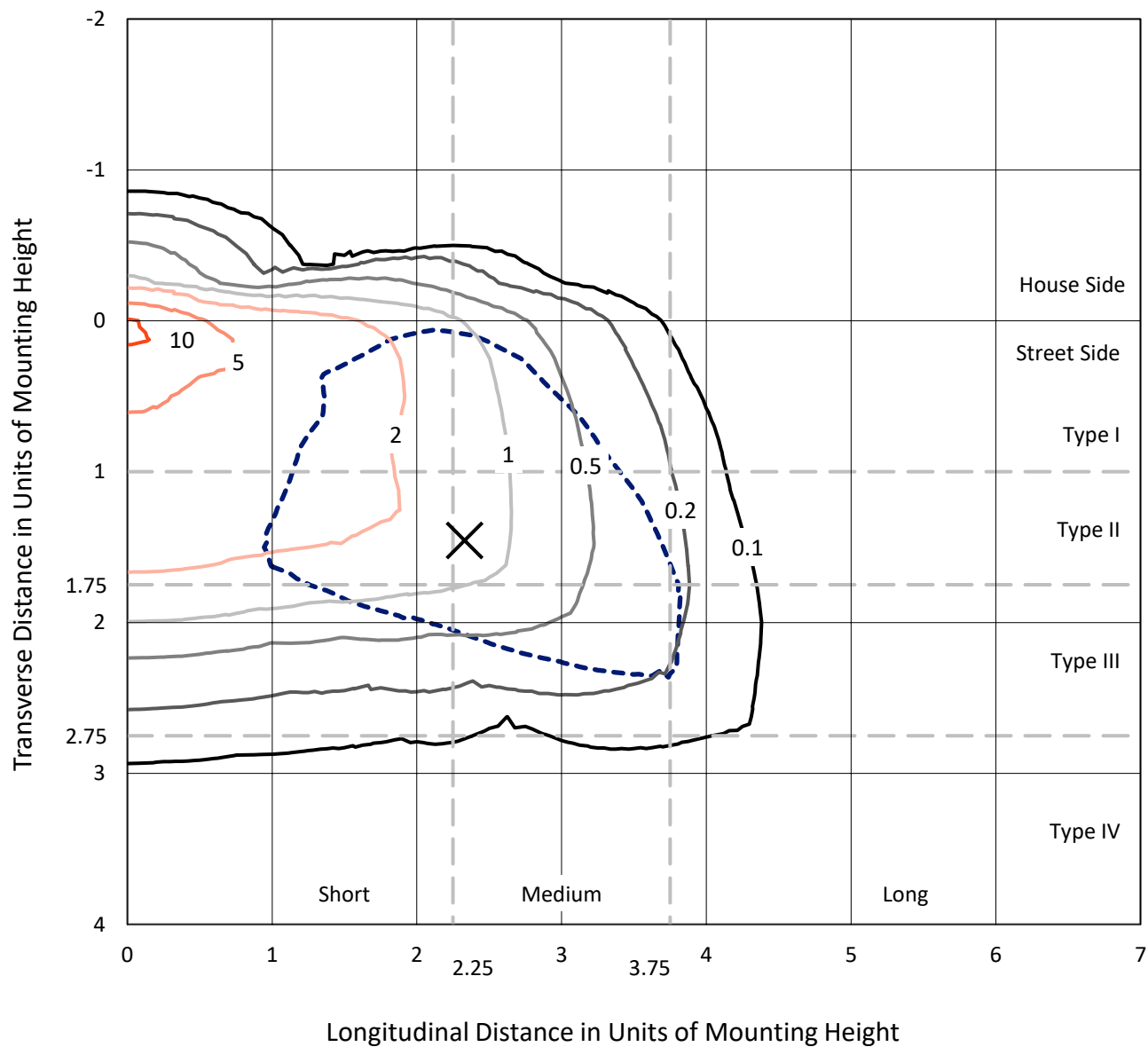
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



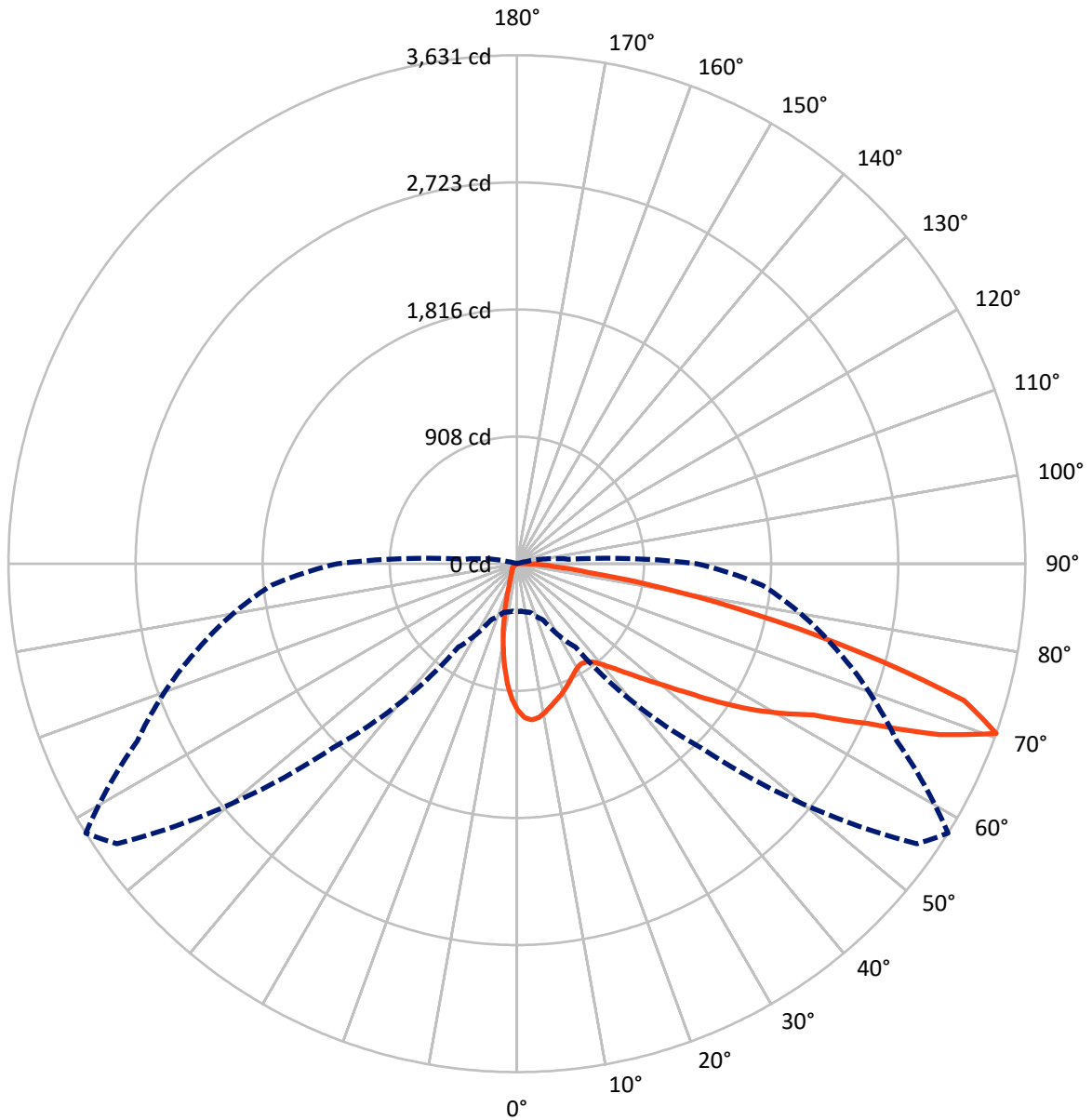
Based on 10 foot mounting height. Maximum calculated value = 10.7 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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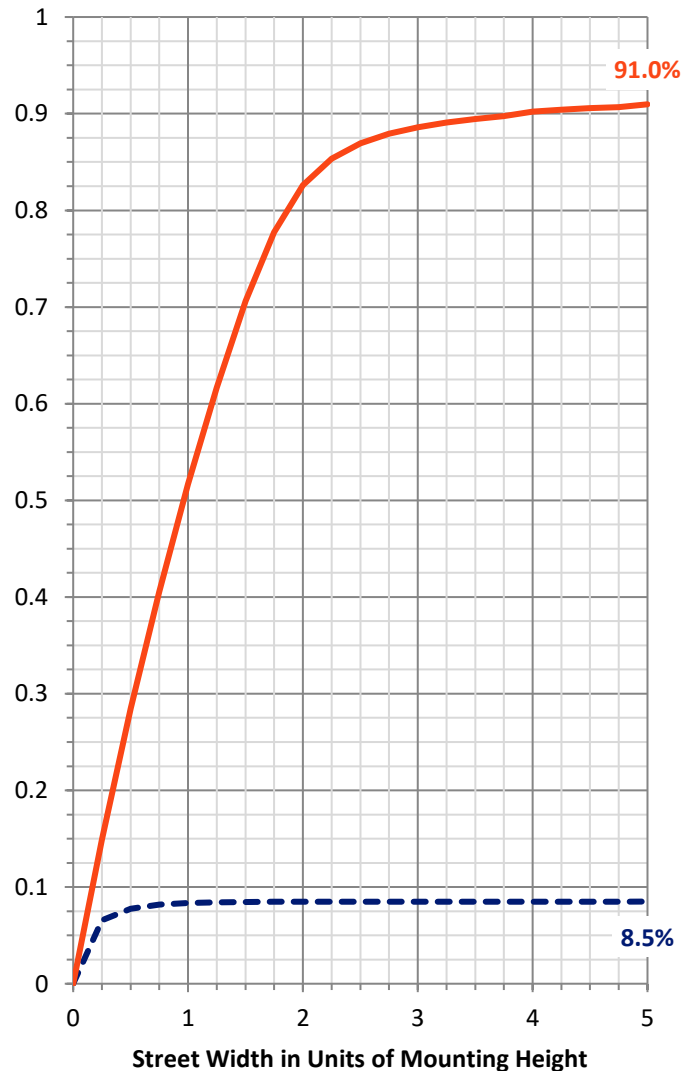
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.2	0.0	304.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	3250.8	0.0	3250.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	3555.0	0.0	3555.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	2.4
10°-20°	180.2	5.1
20°-30°	236.9	6.7
30°-40°	313.8	8.8
40°-50°	469.0	13.2
50°-60°	751.4	21.1
60°-70°	947.1	26.6
70°-80°	510.9	14.4
80°-90°	59.8	1.7
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°	3555.0	100.0
0°-180°	3555.0	100.0



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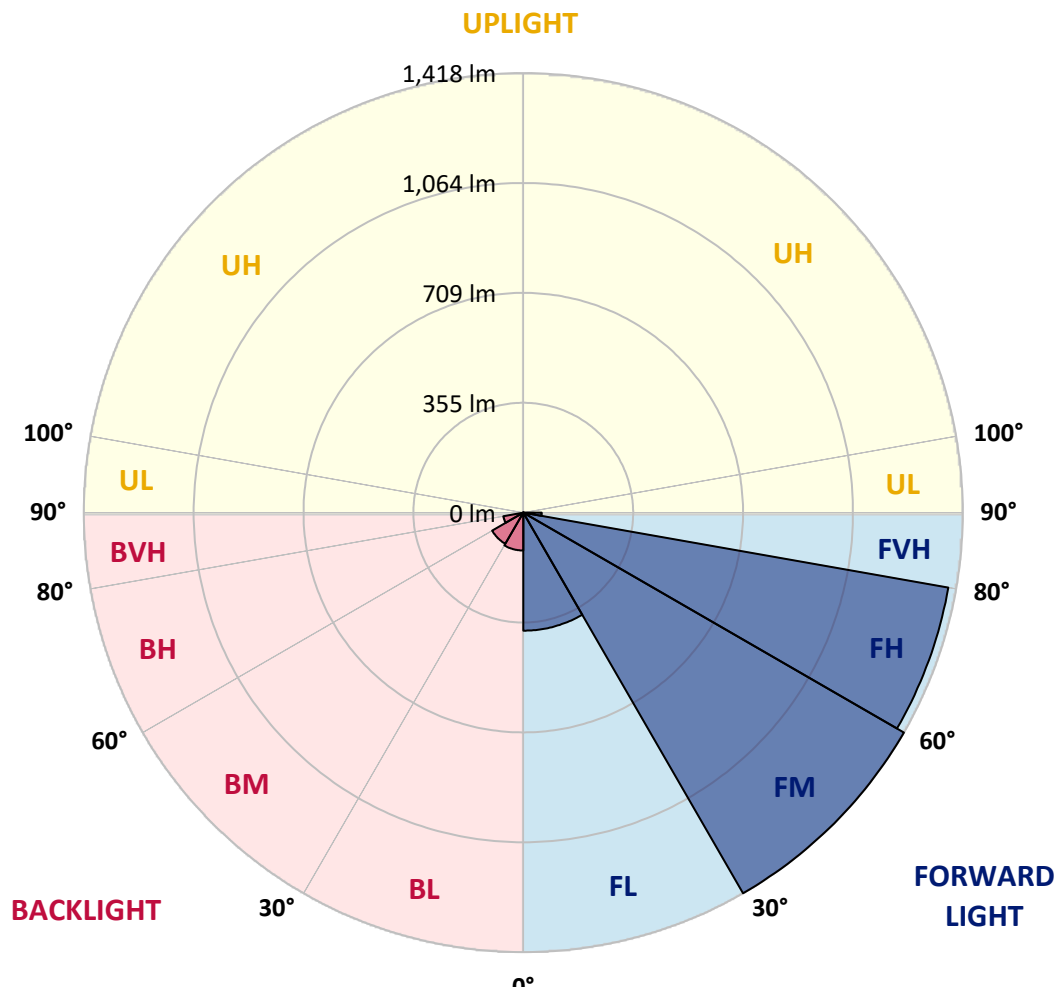
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.8	10.7			
FM	(30°-60°)	1418.1	39.9			
FH	(60°-80°)	1392.5	39.2			G1/1800
FVH	(80°-90°)	59.3	1.7			G1/100
BL	(0°-30°)	122.2	3.4	B1/500		
BM	(30°-60°)	116.1	3.3	B0/220		
BH	(60°-80°)	65.4	1.8	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1137.2	1134.4	1133.4	1131.6	1124.8	1118.1	1105.0	1101.3	1093.0	1073.3	1052.5
5°	1138.1	1137.9	1141.0	1140.3	1137.9	1134.8	1125.4	1120.5	1106.5	1078.4	1040.2
7.5°	1083.2	1086.1	1093.0	1098.6	1105.1	1113.5	1114.7	1110.0	1098.5	1068.2	1017.6
10°	1009.6	1014.1	1023.8	1034.9	1051.9	1068.8	1083.8	1083.2	1079.3	1049.4	990.4
12.5°	935.9	941.0	952.3	968.7	992.8	1020.3	1047.2	1050.9	1057.5	1032.5	965.3
15°	871.3	875.7	886.8	906.9	936.8	973.7	1013.2	1020.0	1037.1	1019.4	944.3
17.5°	816.4	819.2	827.4	849.7	884.3	929.1	980.4	993.7	1019.2	1009.0	926.1
20°	778.1	778.6	783.9	799.6	834.2	884.3	946.4	965.4	1000.3	1000.2	907.3
22.5°	759.2	757.7	758.8	767.8	793.2	841.6	912.4	935.0	983.3	992.6	888.3
25°	755.7	754.5	751.5	752.7	768.1	804.2	878.1	904.2	968.4	988.0	871.7
27.5°	766.8	767.9	762.9	757.6	758.8	779.9	847.6	877.9	956.3	988.0	860.0
30°	789.1	789.7	786.0	779.0	769.7	773.1	826.5	856.8	950.2	994.8	852.6
32.5°	813.8	817.0	816.6	811.0	797.6	783.9	821.4	849.1	949.8	1009.9	851.9
35°	844.4	848.1	854.3	853.1	839.2	816.6	838.6	860.3	958.5	1034.8	859.9
37.5°	876.9	882.5	895.8	902.2	893.1	867.6	877.0	892.6	981.8	1075.0	880.1
40°	908.4	914.7	939.0	963.9	957.1	930.8	935.3	947.7	1023.4	1132.8	918.6
42.5°	939.3	948.7	984.3	1025.4	1033.6	1012.6	1014.9	1024.9	1085.0	1212.3	981.4
45°	976.2	986.9	1039.6	1090.3	1112.1	1102.9	1113.0	1119.5	1165.6	1317.4	1066.1
47.5°	1030.5	1042.7	1107.5	1165.3	1203.4	1209.3	1229.6	1233.9	1267.4	1439.8	1176.5
50°	1136.3	1139.7	1198.2	1250.7	1305.7	1341.2	1364.3	1367.5	1390.7	1573.6	1314.4
52.5°	1269.5	1271.7	1304.8	1340.0	1402.5	1475.0	1528.9	1533.5	1538.4	1703.9	1450.6
55°	1401.8	1401.5	1423.4	1444.1	1515.6	1620.9	1737.9	1740.8	1705.7	1827.7	1554.6
57.5°	1484.4	1492.4	1525.7	1552.3	1652.2	1787.2	1949.6	1960.0	1881.5	1919.3	1657.5
60°	1458.1	1462.0	1535.7	1634.2	1822.4	2023.5	2163.8	2166.5	2013.6	2010.8	1787.6
62.5°	1242.3	1244.4	1360.3	1563.2	1908.5	2330.1	2422.2	2378.9	2165.6	2137.8	1943.3
65°	851.5	864.9	961.7	1212.6	1750.2	2522.4	2822.2	2750.5	2397.2	2320.8	2084.0
67.5°	501.4	498.6	546.5	731.3	1285.5	2394.7	3328.2	3257.0	2713.1	2443.4	2042.8
70°	342.5	340.6	358.9	442.7	725.7	1857.7	3487.4	3631.3	2992.1	2360.9	1758.1
72.5°	244.5	245.5	272.6	344.0	455.6	1082.4	2999.0	3339.5	2904.7	2058.1	1336.3
75°	166.0	168.8	207.5	282.2	399.4	550.6	2128.2	2538.6	2365.3	1495.8	768.1
77.5°	89.3	92.4	138.1	227.4	361.1	382.6	1369.0	1747.1	1485.8	672.4	222.6
80°	37.3	39.0	64.6	165.3	312.1	336.0	805.5	1059.4	633.1	132.6	49.7
82.5°	16.1	17.0	26.9	98.6	233.3	283.7	426.5	509.7	191.9	29.1	25.0
85°	3.1	3.3	11.1	52.2	148.9	160.1	276.4	271.0	86.2	12.6	18.2
87.5°	0.0	0.0	2.7	16.4	43.8	87.2	168.7	166.6	29.3	6.1	6.8
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°	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1041.9	1031.7	1010.2	983.8	963.5	941.2	923.4	901.0	891.2	891.7	886.3
5°	1018.5	997.5	950.1	890.2	844.1	796.5	755.5	714.7	690.6	682.8	675.4
7.5°	985.1	951.8	876.1	783.9	705.9	629.6	563.2	504.8	467.9	449.8	443.2
10°	947.4	900.7	791.1	669.6	558.2	455.0	369.0	294.2	264.3	244.1	238.9
12.5°	914.3	851.0	708.1	552.4	420.1	295.6	213.6	167.0	146.8	138.8	137.5
15°	883.1	804.6	628.1	446.3	290.9	182.0	135.8	120.0	115.3	114.0	114.0
17.5°	853.7	760.4	549.9	341.8	192.5	127.6	112.5	108.9	107.5	107.3	107.5
20°	822.9	716.2	473.0	250.4	134.4	108.1	103.9	102.0	101.6	101.6	101.6
22.5°	793.5	672.0	398.2	178.9	107.8	98.6	96.5	95.2	94.8	94.6	94.3
25°	765.3	630.0	325.2	126.4	94.6	90.3	88.5	86.8	85.4	84.7	84.3
27.5°	742.1	592.6	257.2	101.4	85.4	81.7	79.5	76.9	73.6	72.1	71.5
30°	723.6	558.5	198.2	85.6	76.9	73.2	69.8	65.2	60.5	57.9	57.8
32.5°	709.1	524.9	150.5	75.7	69.2	64.6	59.7	54.0	48.5	45.7	45.5
35°	702.0	495.4	115.0	68.4	62.4	56.6	50.6	44.2	38.9	36.2	35.9
37.5°	706.7	470.4	89.7	62.4	56.6	50.0	42.9	36.2	31.5	29.1	29.0
40°	724.0	454.4	72.9	57.2	51.7	43.6	35.9	29.7	25.7	23.8	23.7
42.5°	760.8	448.5	62.2	52.9	47.0	37.7	29.9	24.5	20.8	19.5	19.2
45°	822.3	457.2	55.0	48.8	42.1	32.1	24.7	20.1	16.9	15.8	15.7
47.5°	904.2	480.1	49.8	44.8	37.7	27.1	20.5	16.3	13.7	12.7	12.6
50°	1009.8	516.5	45.5	40.8	33.6	22.9	17.0	12.9	10.6	9.9	9.9
52.5°	1124.6	559.8	41.7	37.1	29.4	19.1	13.7	9.9	8.4	7.5	7.5
55°	1219.5	597.6	37.5	34.3	24.4	15.8	10.5	7.5	6.2	5.8	5.8
57.5°	1314.3	638.0	32.8	29.4	19.5	12.9	8.0	5.6	4.6	4.3	4.3
60°	1437.1	687.4	28.2	23.9	15.4	9.8	5.9	4.0	3.4	3.3	3.3
62.5°	1572.2	716.3	24.1	19.2	12.0	7.2	4.3	2.7	2.5	2.5	2.4
65°	1654.9	675.4	20.3	15.4	9.3	5.5	2.8	1.9	2.2	2.1	1.8
67.5°	1549.5	528.8	16.6	12.0	7.2	4.1	1.8	1.3	2.4	1.9	1.5
70°	1283.0	370.1	12.9	8.4	5.8	3.5	1.2	0.9	2.5	1.9	1.2
72.5°	960.1	247.8	10.2	5.6	4.3	3.1	1.0	0.4	2.2	1.6	1.0
75°	524.6	99.8	8.1	3.5	2.7	2.2	0.7	0.3	1.5	1.2	0.7
77.5°	138.1	26.3	5.9	2.4	1.5	0.9	0.4	0.1	0.7	0.6	0.3
80°	35.2	10.2	3.8	1.6	1.0	0.4	0.0	0.0	0.1	0.0	0.0
82.5°	18.8	4.3	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.2	2.8	1.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.9	0.4	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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