

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: P939638

Luminaire Tested: **GALN-SB2B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7414 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

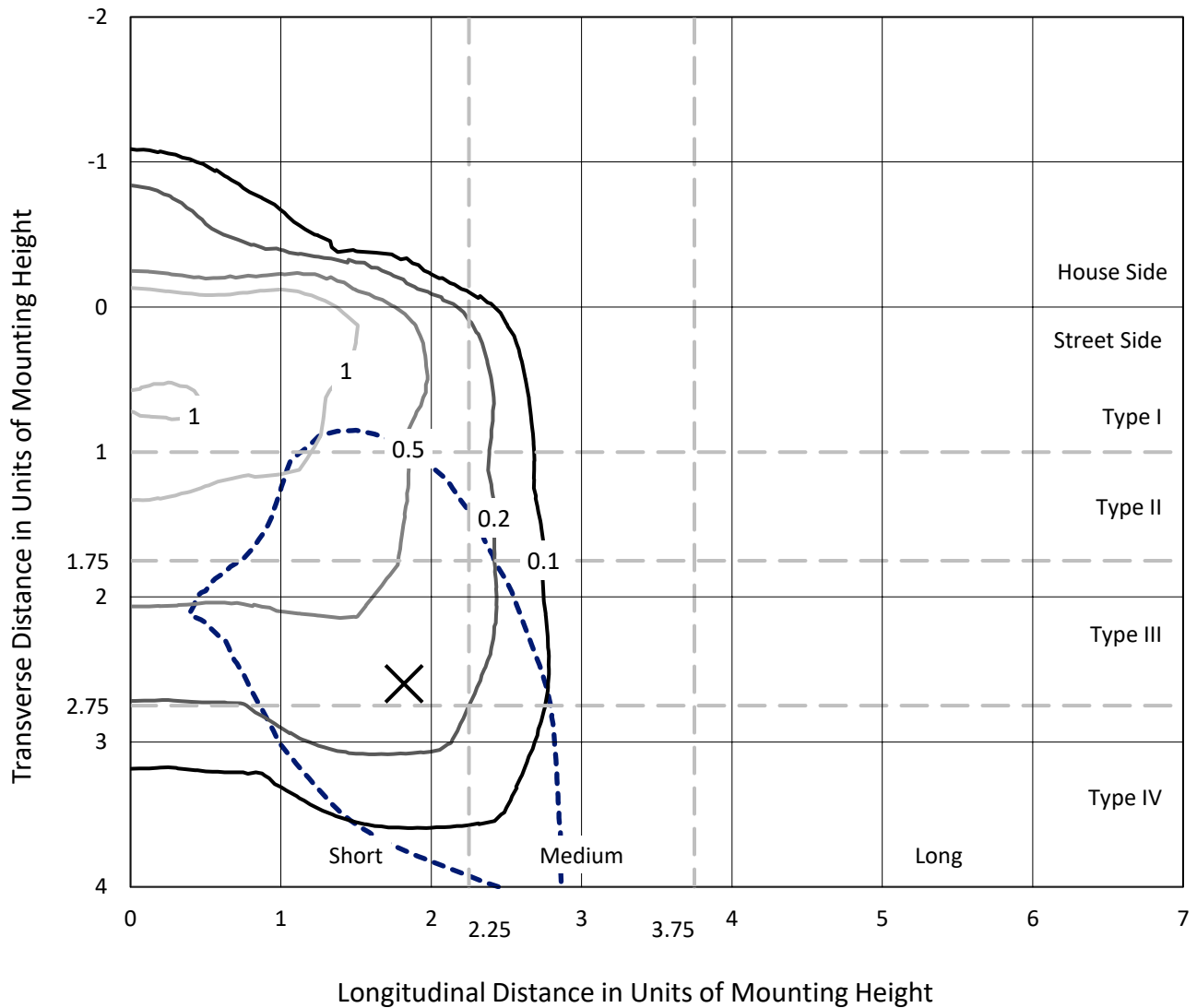
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

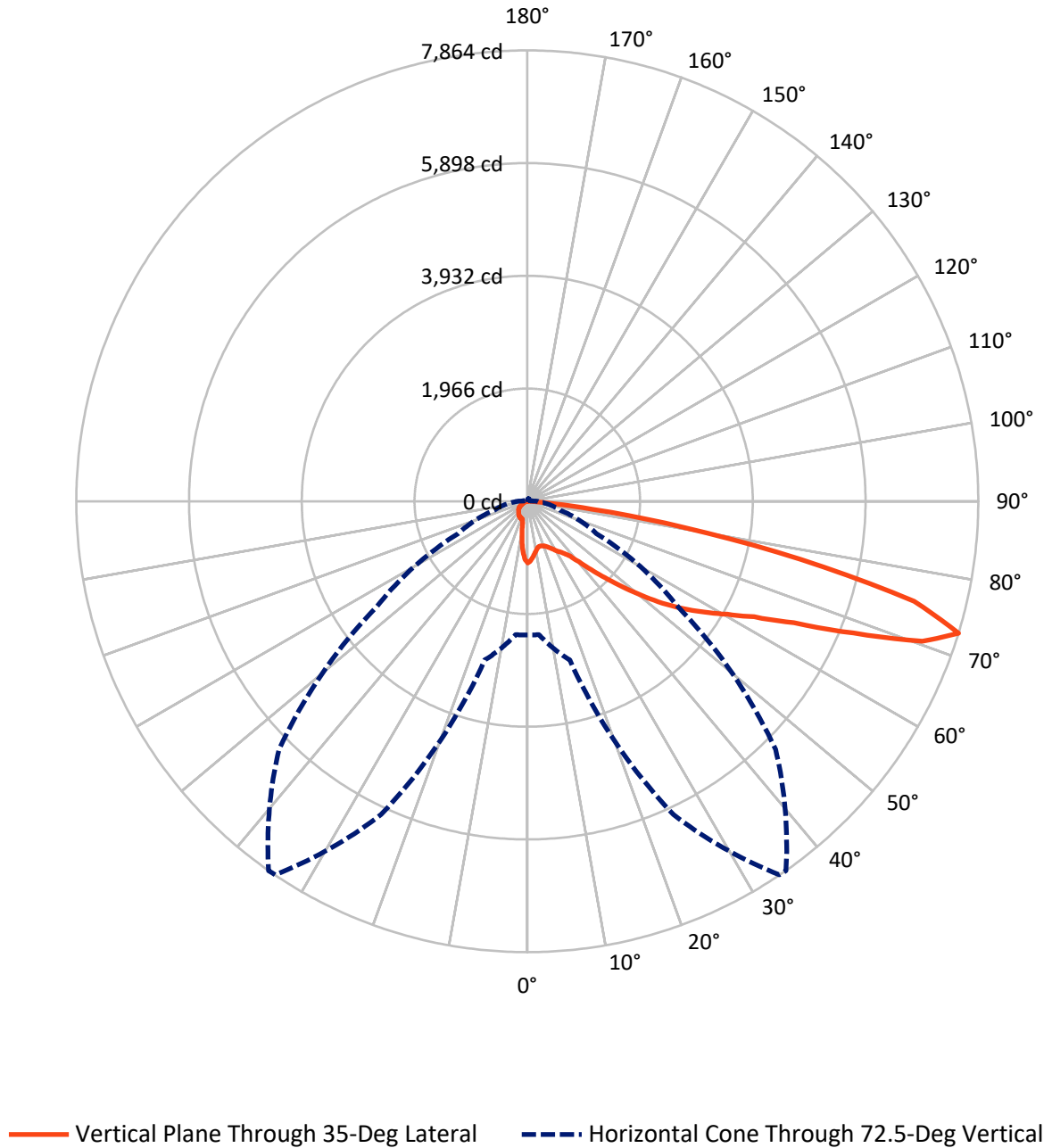
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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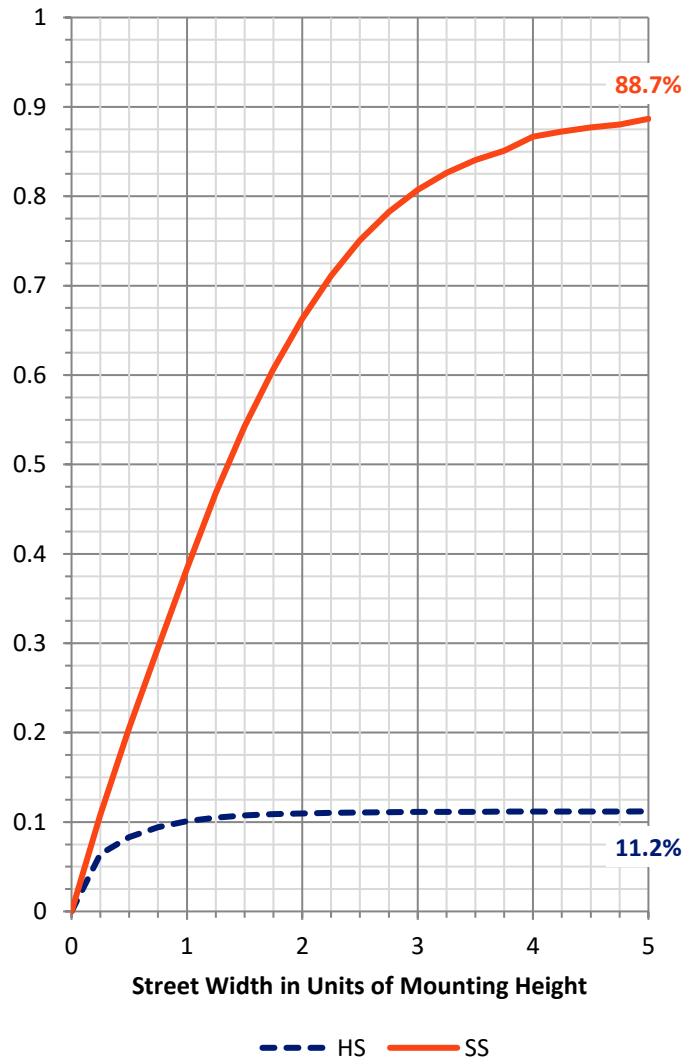
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	834.4	0.0	834.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	6579.6	0.0	6579.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	7414.0	0.0	7414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.2
10°-20°	206.6	2.8
20°-30°	335.6	4.5
30°-40°	559.9	7.6
40°-50°	1059.3	14.3
50°-60°	1683.2	22.7
60°-70°	2082.3	28.1
70°-80°	1294.3	17.5
80°-90°	104.6	1.4
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°	7414.0	100.0
0°-180°	7414.0	100.0

Coefficient of Utilization



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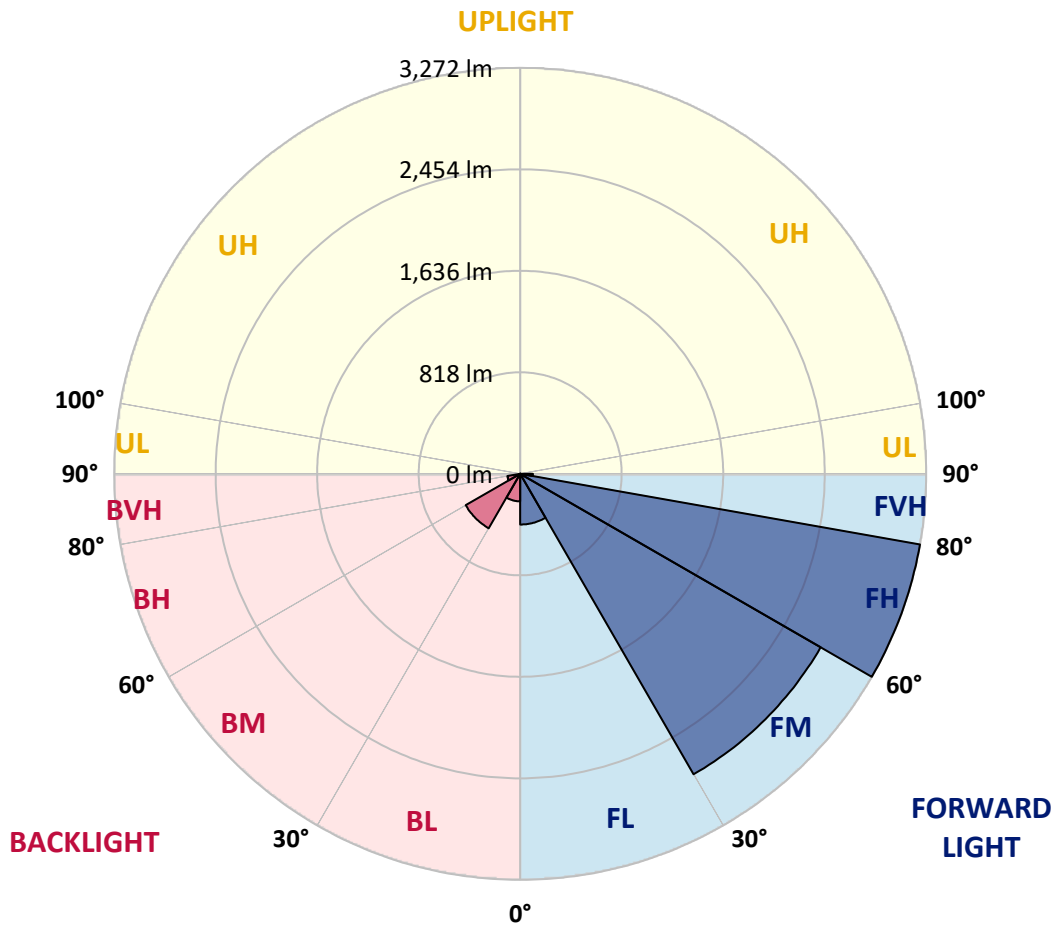
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.7	5.5			
FM (30°-60°)	2795.8	37.7			
FH (60°-80°)	3271.9	44.1			G2/5000
FVH (80°-90°)	103.2	1.4			G2/225
BL (0°-30°)	221.7	3.0	B1/500		
BM (30°-60°)	506.6	6.8	B1/1000		
BH (60°-80°)	104.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1026.7	1035.4	1037.1	1039.8	1039.8	1043.0	1048.5	1056.1	1068.6	1075.1
5°	946.3	952.9	961.0	967.5	980.0	981.6	1002.8	1023.5	1052.3	1074.0
7.5°	865.4	873.0	883.9	899.6	915.9	920.8	952.9	987.6	1033.3	1074.0
10°	808.3	808.9	818.7	834.4	860.5	866.5	905.6	955.0	1012.1	1067.5
12.5°	776.3	780.1	784.4	796.4	821.4	825.2	867.0	925.1	990.9	1063.7
15°	776.3	779.0	781.7	787.7	807.8	811.1	848.0	906.1	980.0	1065.3
17.5°	784.4	788.8	786.6	793.7	814.9	817.0	849.6	900.7	979.5	1075.6
20°	804.0	807.3	802.9	807.3	828.4	832.8	866.5	911.0	988.7	1093.6
22.5°	835.0	836.6	826.3	829.5	851.3	856.7	895.8	940.4	1011.0	1122.3
25°	874.1	877.3	861.6	865.4	886.0	892.6	937.6	984.4	1046.3	1162.0
27.5°	919.2	920.8	907.2	906.7	933.3	942.5	988.2	1038.7	1093.6	1212.0
30°	970.8	975.7	962.6	960.5	994.1	1001.7	1046.8	1105.5	1163.1	1286.9
32.5°	1011.5	1015.3	1007.7	1013.2	1047.4	1053.4	1118.0	1200.0	1272.3	1393.4
35°	1070.2	1072.4	1055.0	1064.8	1103.9	1119.1	1215.2	1332.6	1409.7	1527.1
37.5°	1282.6	1282.6	1208.7	1160.4	1197.9	1211.4	1348.3	1499.4	1579.2	1706.3
40°	1576.5	1571.6	1463.5	1364.6	1359.7	1386.4	1537.9	1709.6	1798.1	1921.5
42.5°	1889.9	1882.3	1735.1	1637.3	1621.0	1630.3	1756.9	1968.7	2058.9	2183.8
45°	2168.1	2165.9	2031.2	1899.7	1870.4	1899.7	2030.1	2271.8	2336.5	2468.0
47.5°	2401.1	2401.1	2302.8	2217.0	2201.8	2219.2	2400.1	2608.1	2602.1	2770.5
50°	2669.5	2667.3	2573.9	2537.0	2552.7	2577.2	2826.0	2962.3	2877.0	3067.7
52.5°	2857.5	2870.5	2838.5	2832.5	2912.9	2955.2	3258.4	3308.9	3123.1	3349.6
55°	3006.3	3021.5	3058.5	3100.3	3255.1	3310.5	3677.2	3637.6	3329.0	3594.1
57.5°	3217.1	3195.4	3252.4	3335.0	3585.4	3652.2	4083.0	3947.8	3494.7	3792.4
60°	3473.0	3476.2	3486.0	3590.3	3915.2	4001.0	4482.9	4241.1	3601.2	3914.1
62.5°	3780.4	3785.3	3805.4	3965.7	4357.9	4438.8	4908.8	4481.2	3650.1	3879.9
65°	3759.3	3779.9	4004.3	4552.4	5031.0	5110.8	5405.8	4649.6	3576.2	3566.9
67.5°	3424.6	3458.3	3833.7	5253.2	6045.8	6134.9	6006.7	4682.8	3257.3	2773.8
70°	2985.7	2997.6	3449.1	5883.3	7220.8	7311.0	6544.5	4318.2	2471.8	1547.2
72.5°	2331.6	2334.3	2864.0	6029.5	7858.6	7863.5	6122.4	3205.7	1329.3	594.3
75°	1665.6	1649.3	1918.2	4889.7	6913.9	6969.3	4589.9	1503.7	507.9	280.9
77.5°	893.1	911.0	1085.4	2899.8	4776.2	4870.7	2504.4	433.5	258.6	191.2
80°	276.0	291.2	444.9	1327.7	2705.4	2762.4	928.4	192.9	180.4	136.4
82.5°	86.9	90.2	207.5	557.9	1122.9	1149.0	268.9	109.2	123.3	90.2
85°	25.0	25.5	92.4	208.1	277.6	283.0	75.5	42.4	70.6	56.0
87.5°	2.7	8.7	34.8	34.8	24.4	23.9	8.1	9.2	20.1	7.1
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1074.5	0°	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5	1074.5
1079.4	2.5°	1076.7	1077.3	1070.2	1058.2	1045.2	1034.3	1020.8	1009.9	1002.3	1000.1
1089.2	5°	1084.3	1080.5	1060.4	1024.0	980.6	943.1	901.2	868.1	846.4	837.1
1099.5	7.5°	1095.7	1084.9	1040.9	969.1	886.0	812.2	737.2	679.1	642.1	623.6
1109.3	10°	1105.5	1083.8	1008.3	889.8	762.7	650.8	549.8	479.7	440.6	422.1
1120.7	12.5°	1114.7	1083.2	965.9	795.9	623.6	486.7	392.8	358.0	347.1	343.3
1139.2	15°	1132.1	1084.9	912.7	688.3	485.1	367.8	333.6	333.0	335.2	334.1
1167.4	17.5°	1156.0	1086.5	852.4	574.2	374.3	324.3	322.7	327.6	330.8	329.2
1202.7	20°	1187.0	1093.0	788.2	461.2	321.6	313.5	317.3	321.6	324.3	321.6
1250.0	22.5°	1230.4	1104.4	718.2	370.5	304.8	306.9	310.2	315.1	317.8	314.0
1310.3	25°	1283.7	1122.3	649.2	322.1	296.6	299.3	304.2	309.6	312.9	309.1
1386.4	27.5°	1352.7	1151.1	585.6	311.3	288.5	290.1	297.2	305.3	309.6	304.8
1494.5	30°	1452.6	1198.4	530.7	316.2	283.6	279.8	289.5	301.0	305.8	301.5
1641.7	32.5°	1585.2	1265.2	497.1	323.8	281.4	267.8	277.1	291.7	299.9	297.2
1834.0	35°	1759.0	1366.8	484.0	332.5	279.8	255.3	261.8	277.6	291.7	294.4
2076.3	37.5°	1969.8	1508.0	487.8	336.3	274.9	245.0	248.3	261.8	280.3	289.0
2349.0	40°	2209.4	1672.6	509.6	332.5	269.4	236.3	236.9	247.2	263.5	276.5
2642.3	42.5°	2456.6	1865.0	549.8	318.3	264.6	228.7	227.1	234.1	245.0	254.2
2935.1	45°	2691.8	2062.7	589.4	298.8	258.6	221.1	217.3	220.0	222.2	226.0
3220.4	47.5°	2897.1	2201.8	578.0	280.9	250.4	212.4	205.9	204.8	198.3	197.7
3475.1	50°	3038.9	2232.2	513.4	262.9	238.5	202.6	192.3	185.8	174.4	168.9
3665.8	52.5°	3084.0	2112.1	419.4	245.0	218.9	189.6	174.9	164.6	150.5	145.6
3775.5	55°	3024.2	1876.9	335.2	223.3	191.8	172.2	155.9	142.3	130.9	124.9
3787.5	57.5°	2878.1	1577.6	265.1	197.7	163.0	152.7	136.4	122.8	113.0	107.0
3654.9	60°	2635.8	1252.7	209.7	167.3	139.1	131.5	114.6	105.9	97.2	90.2
3312.7	62.5°	2268.0	894.2	164.6	132.6	116.3	107.6	97.8	91.3	80.9	71.2
2697.2	65°	1769.9	547.0	127.1	97.2	93.4	89.1	83.1	77.1	64.6	54.9
1759.6	67.5°	1116.4	259.1	90.7	73.3	73.9	71.7	69.0	64.1	54.9	46.2
788.2	70°	491.6	125.5	59.8	56.0	54.9	54.9	57.0	55.4	46.7	38.6
273.8	72.5°	167.3	67.4	44.5	42.4	39.7	39.1	47.8	46.2	37.5	29.9
136.4	75°	87.5	45.1	32.6	30.4	23.9	28.8	38.0	35.9	26.6	19.6
90.2	77.5°	57.0	32.1	22.3	19.6	13.6	19.0	28.2	25.0	15.8	9.8
59.2	80°	35.9	21.2	13.0	9.2	6.5	10.3	15.2	10.9	6.0	2.2
34.8	82.5°	19.0	10.9	4.9	3.3	2.7	3.3	3.8	2.7	1.1	0.0
17.9	85°	7.6	3.8	1.6	1.1	0.5	0.0	1.1	0.5	0.0	0.0
3.3	87.5°	2.7	0.5	0.0	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

(END O

<u>180°</u>
1074.5
1003.9
840.4
626.4
422.6
342.2
333.6
328.7
321.1
313.5
308.6
304.8
301.0
297.2
294.4
291.2
280.9
258.0
228.2
197.2
169.5
145.0
124.9
105.9
88.5
69.5
53.2
45.1
36.9
28.2
17.9
8.7
1.6
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