

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: P946572

Luminaire Tested: **GALN-SB2A-935-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-935-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6228 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

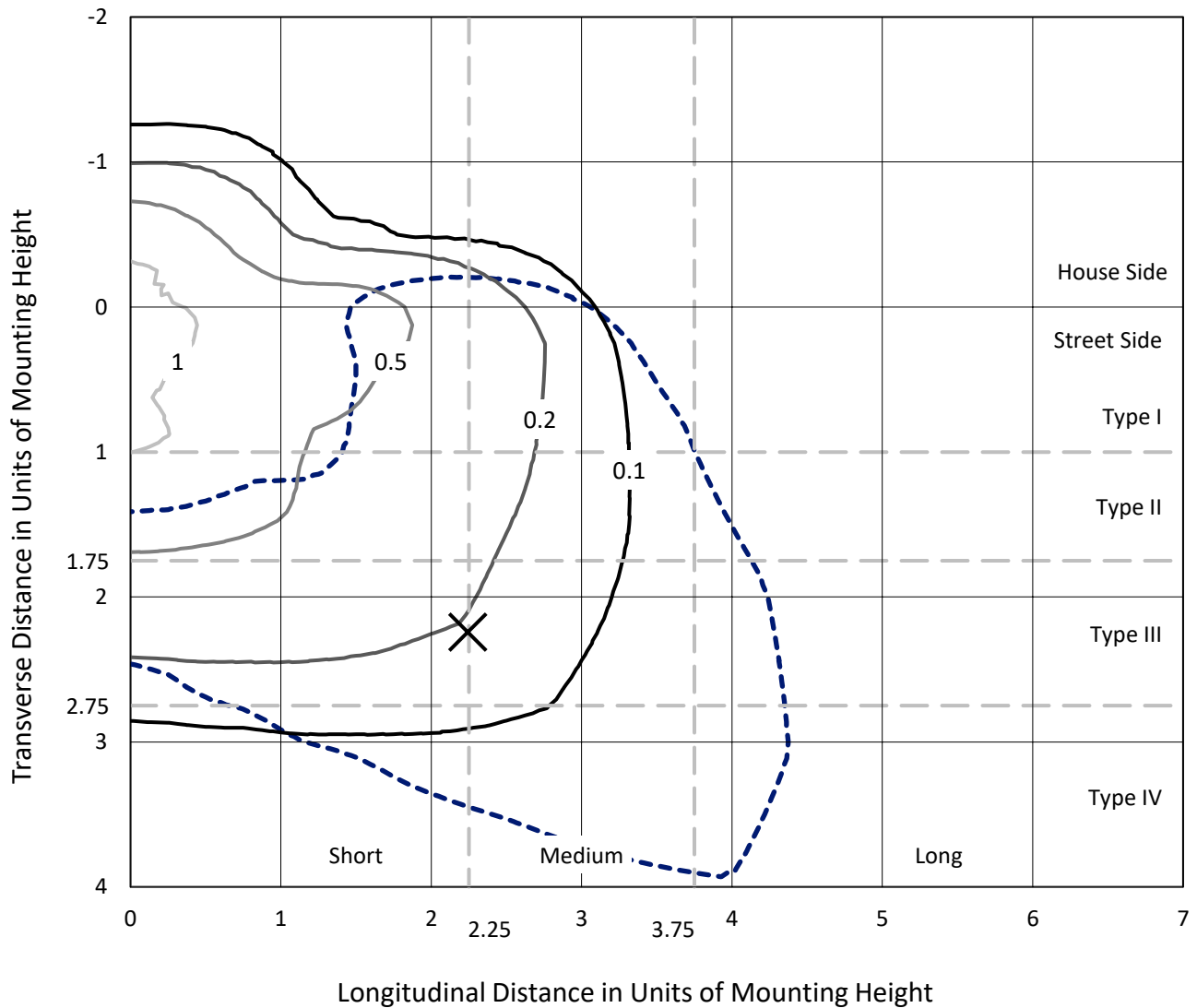
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

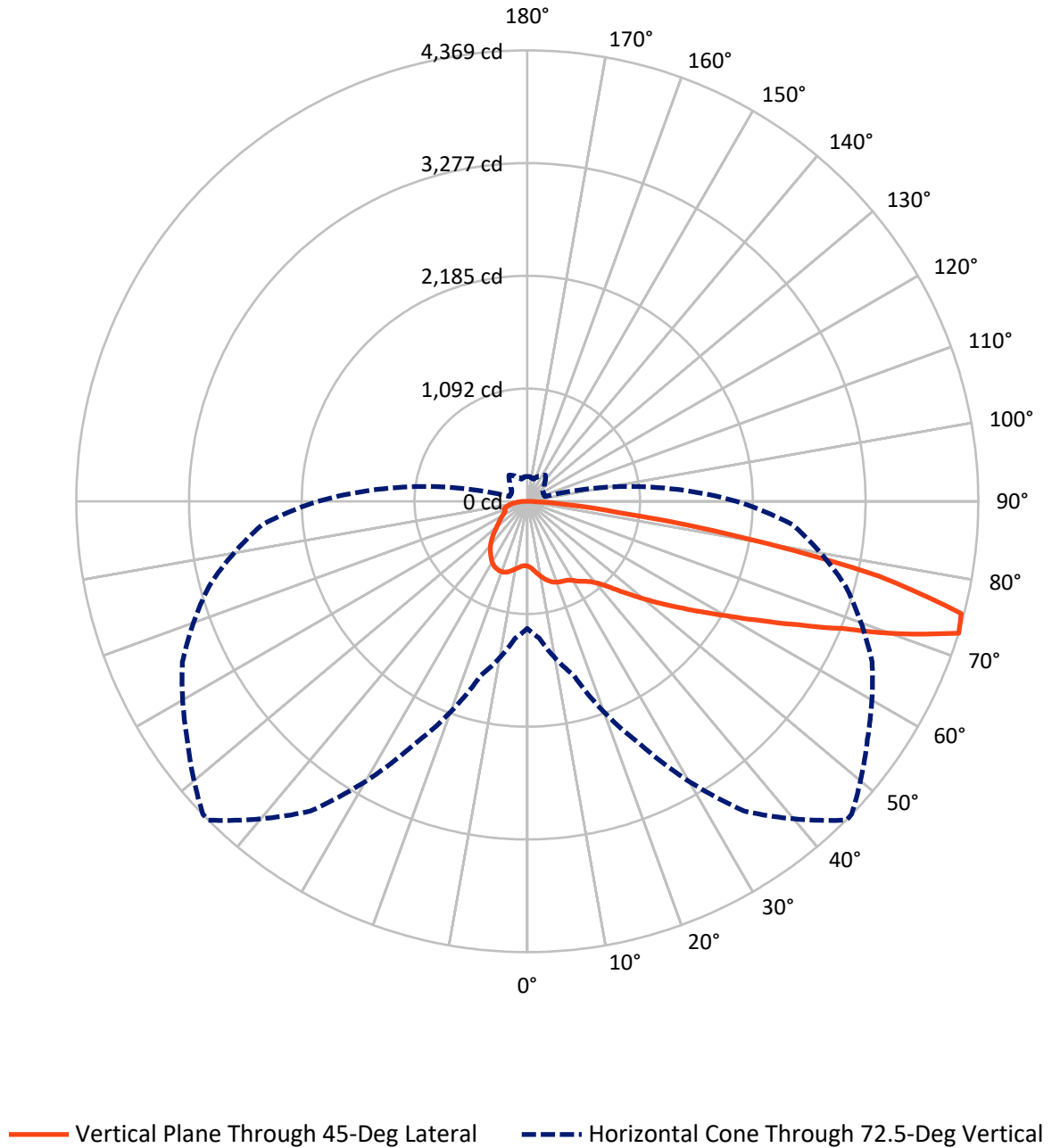
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	1407.9	0.0	1407.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4820.1	0.0	4820.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	6228.0	0.0	6228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.0
10°-20°	213.2	3.4
20°-30°	370.9	6.0
30°-40°	531.7	8.5
40°-50°	748.6	12.0
50°-60°	1146.7	18.4
60°-70°	1661.2	26.7
70°-80°	1326.5	21.3
80°-90°	165.2	2.7
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°	6228.0	100.0
0°-180°	6228.0	100.0

Coefficient of Utilization



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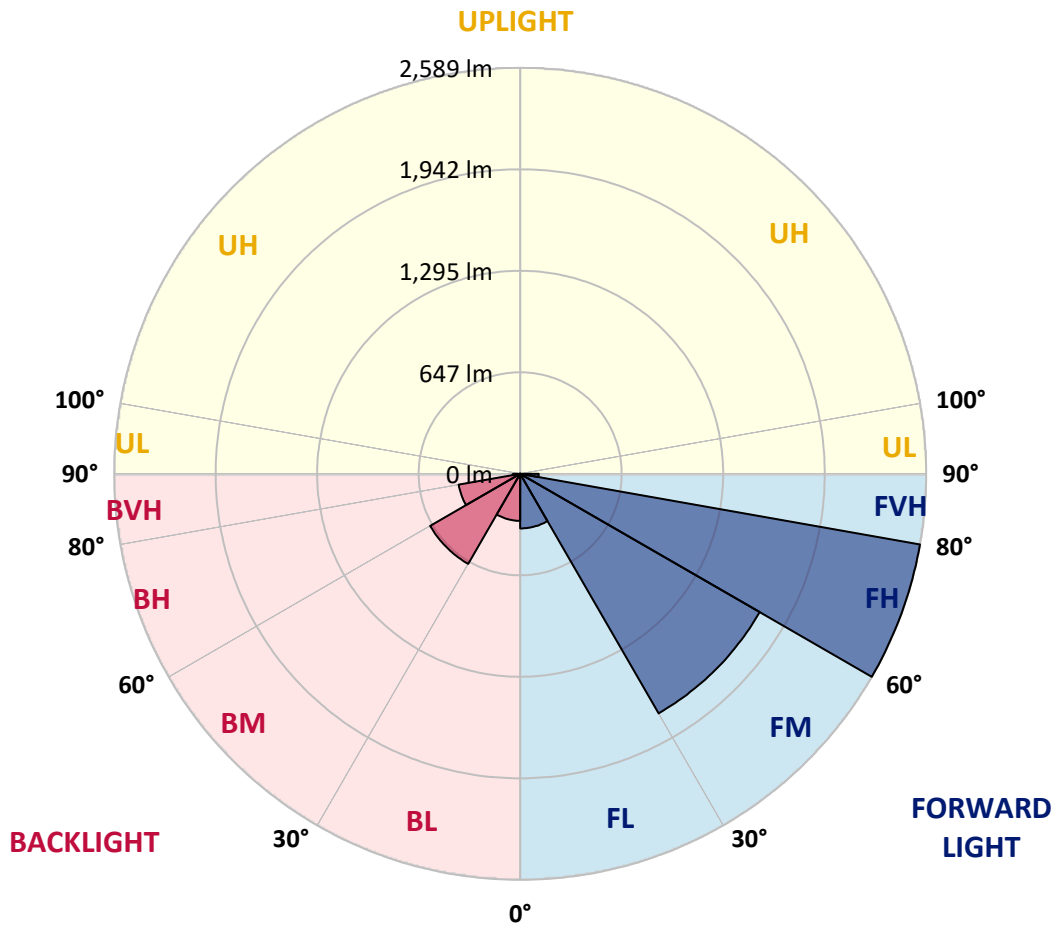
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.3	5.6			
FM (30°-60°)	1764.1	28.3			
FH (60°-80°)	2589.2	41.6			G2/5000
FVH (80°-90°)	118.5	1.9			G2/225
BL (0°-30°)	299.8	4.8	B1/500		
BM (30°-60°)	662.9	10.6	B1/1000		
BH (60°-80°)	398.6	6.4	B1/500		G1/500
BVH (80°-90°)	46.7	0.7			G1/100
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°	35°	45°	46°	55°	65°	75°
0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
2.5°	652.9	657.2	653.2	649.6	648.0	643.7	643.4	640.8	639.1	634.5
5°	698.5	704.1	697.5	690.3	683.7	673.2	671.9	664.4	655.8	646.0
7.5°	750.0	754.9	747.4	736.6	725.1	707.7	707.4	693.6	680.1	663.4
10°	795.0	801.5	791.3	776.6	762.1	742.5	740.2	724.4	707.4	685.7
12.5°	834.6	839.2	829.4	811.4	794.6	774.9	772.0	754.6	735.6	711.0
15°	866.1	872.1	858.9	839.6	821.9	802.5	799.9	784.1	765.1	739.2
17.5°	886.8	891.7	878.3	856.6	839.6	823.5	821.5	808.4	791.7	765.4
20°	894.7	899.9	885.8	863.8	848.1	835.6	834.6	825.1	813.7	789.7
22.5°	902.6	907.5	889.1	866.1	852.4	844.5	844.2	837.9	833.3	813.7
25°	934.4	935.7	911.1	878.0	858.3	851.4	851.1	850.7	852.7	837.3
27.5°	961.9	961.6	940.6	909.5	878.9	864.5	864.2	867.5	873.7	860.9
30°	1002.3	998.7	973.8	941.3	913.4	891.1	889.1	886.2	891.1	880.9
32.5°	1087.9	1076.4	1036.1	978.4	941.9	924.9	922.2	903.9	905.8	899.6
35°	1210.6	1195.5	1141.7	1048.6	977.4	953.1	951.8	928.5	924.5	919.0
37.5°	1356.6	1337.9	1275.3	1150.3	1038.4	985.9	983.9	962.9	946.9	940.9
40°	1503.3	1479.7	1427.8	1274.3	1128.3	1040.7	1034.5	1002.6	984.3	974.4
42.5°	1645.7	1626.0	1581.7	1413.4	1239.2	1120.7	1107.0	1052.5	1038.7	1029.5
45°	1771.7	1753.9	1721.5	1562.0	1369.1	1229.7	1216.2	1127.3	1123.0	1123.0
47.5°	1874.0	1870.1	1835.6	1713.6	1522.3	1353.7	1330.4	1231.3	1242.8	1260.5
50°	1987.5	1976.7	1940.0	1862.9	1702.4	1495.7	1476.7	1358.9	1401.9	1450.5
52.5°	2091.9	2097.8	2056.8	2018.4	1905.8	1654.2	1620.7	1509.5	1602.4	1682.8
55°	2199.2	2199.5	2188.0	2182.8	2119.1	1829.4	1792.7	1690.6	1838.3	1938.0
57.5°	2299.9	2300.5	2317.6	2363.9	2366.5	2031.5	1989.8	1913.1	2100.4	2202.1
60°	2389.8	2394.4	2441.0	2549.2	2584.0	2263.1	2223.8	2175.9	2371.4	2473.8
62.5°	2420.0	2436.7	2540.4	2694.2	2798.9	2547.3	2508.5	2480.0	2656.2	2751.3
65°	2368.8	2407.2	2607.6	2814.0	3020.0	2884.9	2846.5	2815.3	2952.1	3041.7
67.5°	2243.1	2292.7	2603.7	2939.6	3288.4	3291.0	3255.3	3182.1	3269.4	3303.8
70°	1912.1	1986.2	2374.4	2986.6	3596.5	3846.5	3812.0	3623.7	3586.0	3419.3
72.5°	1232.0	1331.7	1748.4	2600.4	3665.0	4369.1	4367.1	4022.3	3686.0	3194.9
75°	449.5	510.5	812.3	1632.2	3076.5	4342.5	4355.3	3954.1	3364.8	2467.9
77.5°	163.7	179.1	265.1	627.3	1892.1	3484.3	3510.8	3161.1	2395.0	1238.5
80°	86.0	94.5	135.8	243.4	810.7	2069.2	2110.9	1878.6	1125.7	373.0
82.5°	47.6	51.5	76.1	132.2	365.2	884.8	909.8	742.1	396.0	158.1
85°	25.6	27.2	35.8	72.2	178.5	306.8	313.6	221.8	157.8	92.8
87.5°	7.5	9.2	11.8	23.0	69.9	68.9	70.5	44.0	62.3	46.9
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°
628.3	0°	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3	628.3
633.2	2.5°	631.2	630.3	626.6	625.0	623.0	622.7	624.3	624.7	625.0	625.3
640.4	5°	637.1	633.9	630.6	628.6	629.3	629.6	632.9	635.2	636.8	638.1
653.9	7.5°	648.6	646.0	640.4	640.1	641.1	644.0	648.3	653.5	656.5	658.8
671.3	10°	665.7	660.8	654.2	655.2	657.2	661.4	670.3	674.5	679.5	683.7
692.6	12.5°	683.1	678.8	671.3	671.9	675.2	682.7	691.3	696.5	699.8	703.1
715.6	15°	705.7	698.2	690.0	690.0	695.9	704.1	708.0	712.3	714.2	717.9
740.2	17.5°	729.0	719.2	708.3	707.7	714.9	718.8	721.1	721.8	722.4	726.4
764.1	20°	752.3	741.5	726.1	724.7	726.4	725.7	725.4	724.7	725.7	730.6
788.7	22.5°	775.3	762.8	741.5	735.6	731.0	724.7	724.4	724.1	724.7	729.7
815.3	25°	802.2	787.1	758.5	740.8	725.4	716.9	717.9	718.2	718.8	722.8
842.9	27.5°	831.4	814.6	774.3	739.2	711.3	705.4	703.7	704.7	707.0	713.3
870.4	30°	860.6	840.9	788.7	732.6	693.6	685.4	680.1	682.4	689.6	695.9
894.4	32.5°	887.1	867.5	800.2	718.2	670.9	658.1	651.2	654.2	661.4	663.7
920.9	35°	918.3	896.0	805.1	695.2	646.3	626.6	617.5	613.2	616.8	614.5
952.1	37.5°	953.1	929.8	804.5	665.0	617.5	594.8	582.0	565.9	558.4	550.5
998.0	40°	1004.6	971.1	796.6	628.6	581.7	561.0	538.1	510.8	493.8	478.3
1072.2	42.5°	1074.8	1028.5	782.2	588.6	541.3	522.0	490.8	459.0	432.1	406.5
1184.7	45°	1179.5	1103.7	764.1	545.9	497.7	478.7	444.9	409.1	378.6	345.8
1344.5	47.5°	1330.4	1204.7	747.1	497.4	451.8	434.4	403.9	370.7	334.6	302.8
1575.5	50°	1537.7	1349.7	731.3	450.1	406.5	393.4	369.1	335.3	298.9	273.3
1846.1	52.5°	1801.5	1546.9	724.7	404.5	364.2	359.3	339.9	308.4	274.0	252.3
2161.8	55°	2104.3	1782.8	724.7	360.9	327.1	328.7	315.3	286.1	256.2	236.9
2487.2	57.5°	2413.4	2021.7	711.6	320.5	295.6	302.5	294.0	268.4	241.5	221.5
2829.4	60°	2698.2	2221.8	658.5	283.8	267.7	278.5	273.0	251.0	218.2	201.4
3115.5	62.5°	2917.0	2334.7	556.1	254.6	244.8	257.2	254.3	228.0	213.9	207.0
3350.4	65°	3026.6	2316.3	425.2	228.7	225.4	244.8	238.5	237.5	226.4	218.5
3426.9	67.5°	2959.3	2158.1	308.4	209.6	214.2	233.3	257.2	261.2	240.5	225.1
3211.6	70°	2664.4	1872.1	229.7	191.6	200.1	233.6	293.3	273.3	235.9	217.8
2575.8	72.5°	2026.9	1396.0	178.2	172.6	181.8	235.2	309.4	267.7	222.8	240.8
1604.7	75°	1159.1	766.4	143.0	149.3	158.8	219.8	301.2	253.3	212.6	221.1
635.8	77.5°	441.9	294.6	118.1	126.3	127.6	191.9	288.1	252.3	202.4	197.5
190.6	80°	153.2	115.2	97.8	100.4	98.8	170.6	276.2	219.5	165.7	148.3
78.7	82.5°	62.7	57.4	77.4	74.1	70.2	132.5	223.1	179.5	135.5	119.8
38.1	85°	27.2	36.4	51.2	44.9	40.7	91.9	178.8	151.9	114.5	98.8
12.5	87.5°	5.6	13.8	21.7	20.3	21.0	61.4	127.0	107.9	81.0	60.7
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>
628.3
626.6
638.8
659.5
682.7
704.4
719.2
727.7
732.6
732.9
728.0
719.5
702.8
671.9
621.7
555.4
479.3
404.2
341.9
299.2
271.7
250.7
234.9
218.2
198.8
204.7
215.9
222.4
214.9
238.8
221.1
180.1
143.4
118.4
98.4
47.6
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