

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: P950739

Luminaire Tested: **GALN-SB5A-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-835-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20541 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

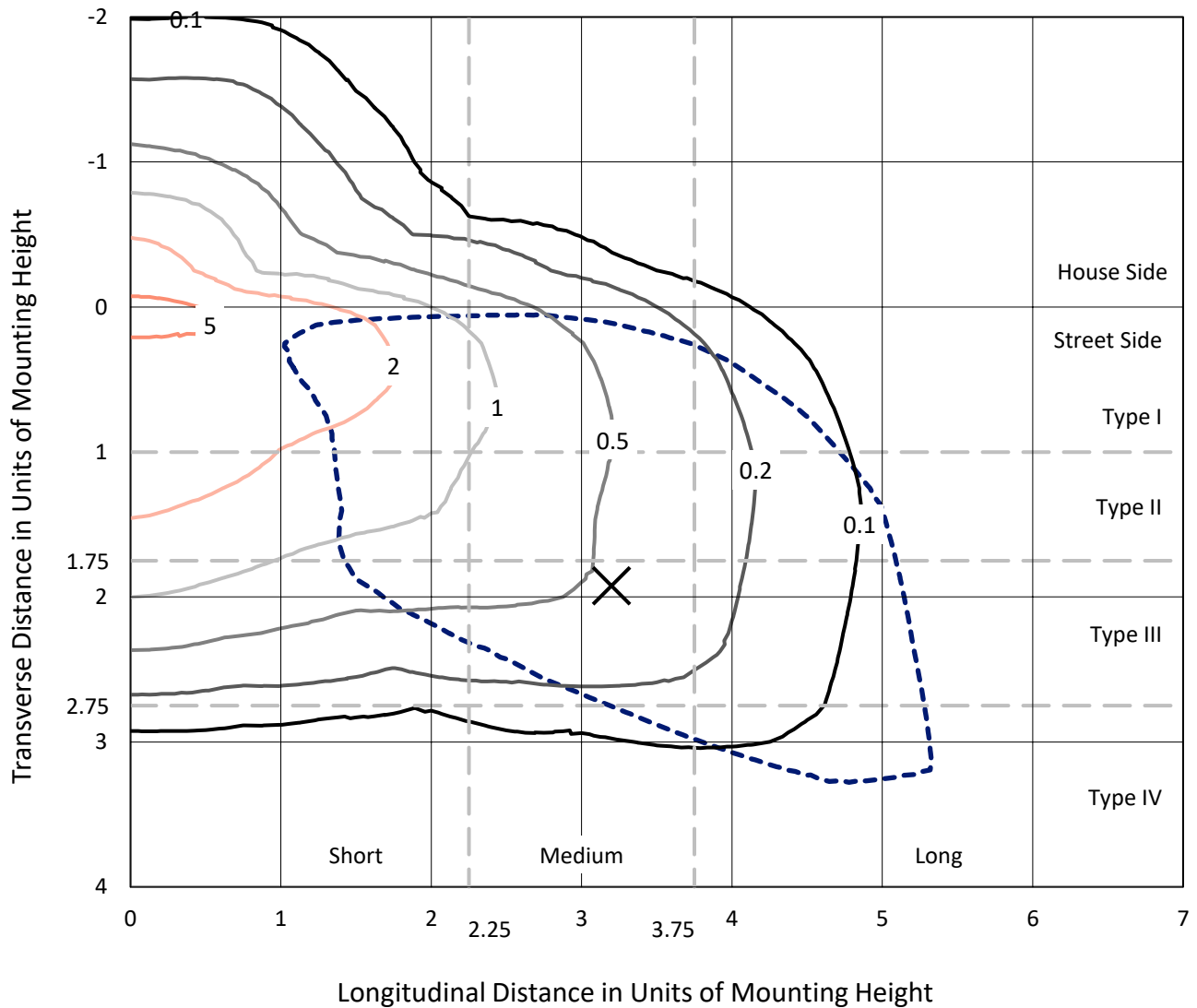
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

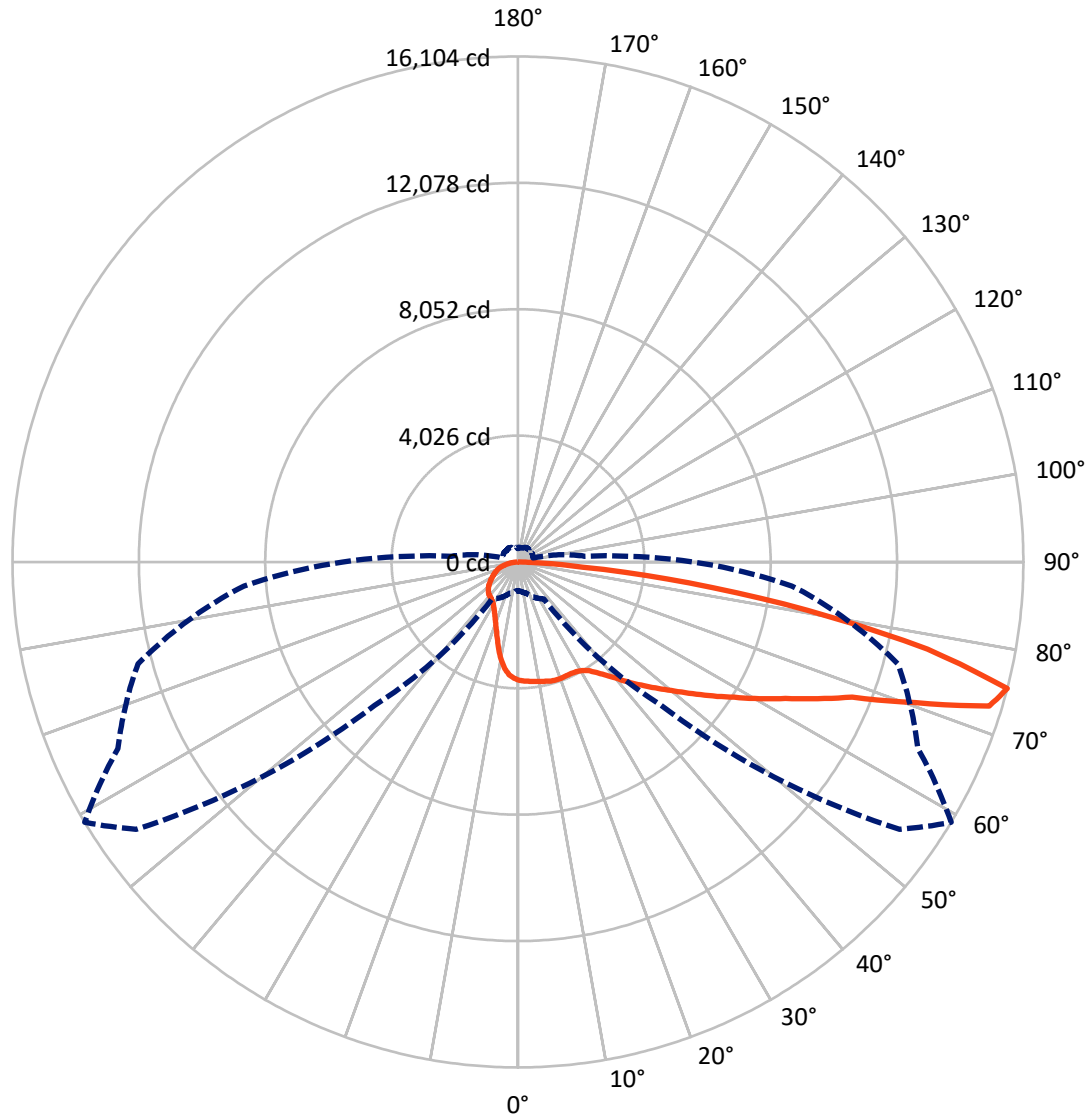
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3852.6	0.0	3852.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16688.4	0.0	16688.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	20541.0	0.0	20541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	1.6
10°-20°	864.1	4.2
20°-30°	1312.5	6.4
30°-40°	1951.0	9.5
40°-50°	2901.5	14.1
50°-60°	3938.5	19.2
60°-70°	4808.2	23.4
70°-80°	3773.4	18.4
80°-90°	653.6	3.2
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°	20541.0	100.0
0°-180°	20541.0	100.0

Coefficient of Utilization



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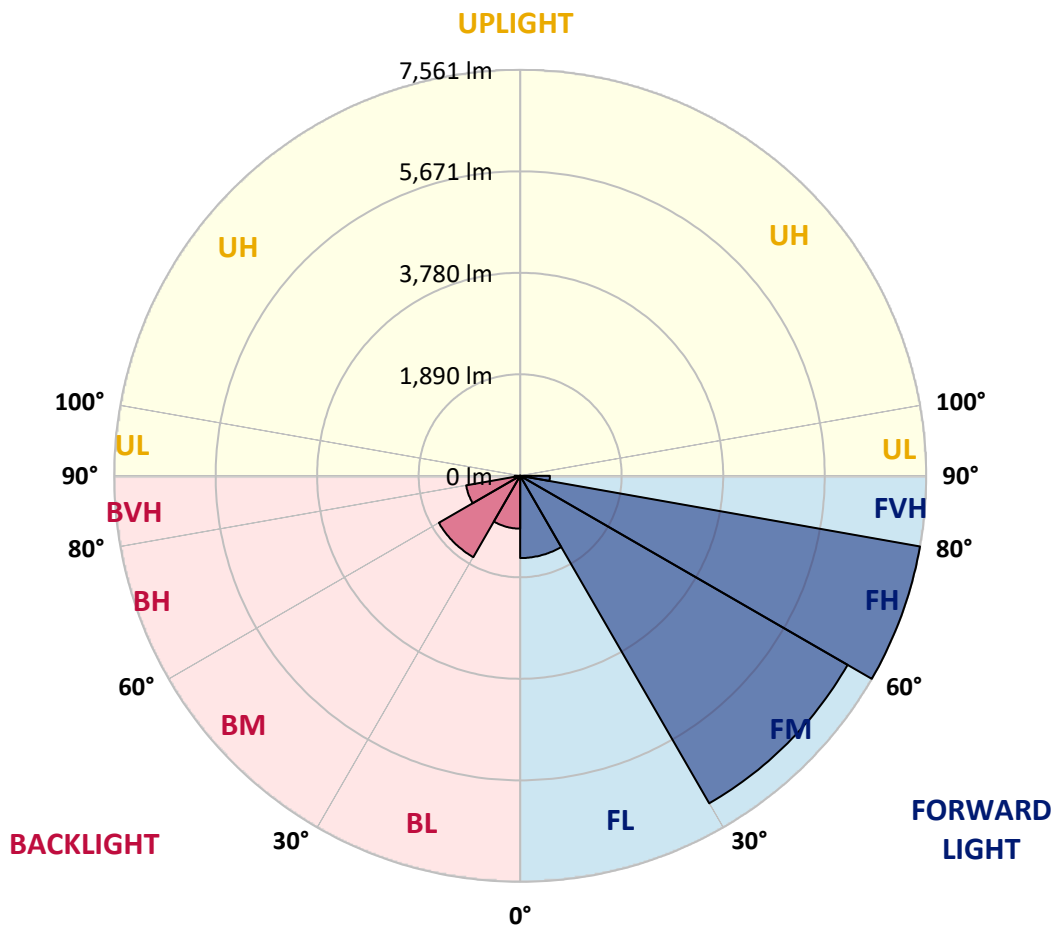
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.6	7.5			
FM (30°-60°)	7042.3	34.3			
FH (60°-80°)	7560.9	36.8			G4/12000
FVH (80°-90°)	553.6	2.7			G4/750
BL (0°-30°)	983.1	4.8	B2/1000		
BM (30°-60°)	1748.7	8.5	B2/2500		
BH (60°-80°)	1020.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	100.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3
2.5°	3802.3	3789.0	3802.3	3796.8	3794.6	3790.1	3791.2	3799.0	3794.6	3800.1
5°	3776.9	3769.1	3782.4	3779.1	3793.5	3795.7	3810.0	3818.9	3824.4	3825.5
7.5°	3734.9	3727.2	3745.9	3761.4	3792.4	3801.2	3831.0	3845.4	3853.1	3866.4
10°	3581.3	3578.0	3624.4	3683.0	3755.9	3801.2	3846.5	3870.8	3883.0	3918.3
12.5°	3309.5	3313.9	3374.7	3487.4	3633.2	3779.1	3864.2	3899.5	3918.3	3962.5
15°	3049.8	3048.7	3115.0	3235.4	3439.9	3681.9	3873.0	3933.8	3965.8	4031.0
17.5°	2899.5	2895.1	2941.5	3033.2	3223.3	3532.7	3850.9	3952.6	4021.1	4102.9
20°	2871.9	2863.1	2887.4	2932.7	3067.5	3369.1	3793.5	3952.6	4065.3	4171.4
22.5°	2972.4	2958.1	2948.1	2942.6	3002.3	3234.3	3728.3	3939.3	4130.5	4269.7
25°	3174.7	3152.6	3101.7	3052.0	3034.3	3173.6	3670.8	3936.0	4227.7	4402.3
27.5°	3501.7	3474.1	3371.4	3252.0	3144.8	3204.5	3645.4	3955.9	4334.9	4542.6
30°	3907.3	3877.4	3748.2	3564.7	3372.5	3319.4	3677.4	4014.5	4471.9	4729.4
32.5°	4270.8	4237.7	4127.2	3940.4	3680.7	3518.3	3779.1	4126.1	4687.4	4989.1
35°	4593.5	4554.8	4455.4	4283.0	4058.7	3797.9	3962.5	4323.9	4993.5	5411.2
37.5°	4909.5	4864.2	4755.9	4573.6	4416.7	4170.3	4215.6	4578.0	5400.1	5923.9
40°	5263.1	5197.9	5066.4	4886.3	4733.8	4606.7	4548.2	4889.6	5813.4	6496.3
42.5°	5605.7	5543.8	5386.9	5233.3	5042.1	5005.6	4933.8	5254.3	6265.3	7125.0
45°	5974.7	5900.7	5710.6	5516.2	5395.7	5270.8	5307.3	5618.9	6708.4	7765.9
47.5°	6320.6	6237.7	6013.4	5796.8	5730.5	5494.1	5649.9	6020.0	7169.2	8415.7
50°	6507.3	6425.6	6238.8	6043.2	5991.3	5769.2	6021.1	6460.9	7652.1	9063.2
52.5°	6663.1	6574.7	6330.5	6222.2	6206.8	6068.7	6478.6	6964.8	8135.0	9635.6
55°	6828.9	6730.5	6418.9	6321.7	6392.4	6404.6	7021.2	7536.1	8645.5	10193.6
57.5°	7020.1	6895.2	6504.0	6405.7	6573.6	6798.0	7644.4	8128.4	9147.2	10710.8
60°	7200.2	7074.2	6667.6	6539.4	6769.2	7254.3	8359.3	8845.5	9715.1	11171.5
62.5°	7235.5	7131.7	6798.0	6796.8	7034.4	7786.9	9205.7	9569.3	10211.3	11626.8
65°	6623.4	6558.2	6360.4	6786.9	7414.5	8553.8	10148.3	10495.3	10842.2	12024.6
67.5°	5041.0	5049.8	5035.5	5858.7	7107.4	9655.5	11513.0	11486.5	11621.3	12471.0
70°	2305.0	2357.0	2695.1	4044.3	5694.1	9782.6	13769.4	13425.7	12599.2	13048.9
72.5°	1245.3	1285.1	1423.2	1959.2	3423.3	8697.4	15455.6	15699.8	13899.8	13437.9
75°	913.8	935.9	1032.1	1245.3	1437.6	6464.2	14851.2	16104.2	14062.2	12530.7
77.5°	684.0	693.9	772.4	986.8	735.9	3407.8	11866.6	13337.3	12037.9	10295.3
80°	496.1	507.2	565.8	740.3	516.0	1246.4	8148.3	9361.5	8244.4	6562.6
82.5°	342.5	347.0	372.4	503.9	360.2	484.0	4623.3	5489.6	4602.3	2302.8
85°	206.6	212.2	223.2	293.9	204.4	229.8	1995.6	2064.1	1375.7	550.3
87.5°	85.1	90.6	99.4	123.8	80.7	64.1	329.3	413.3	257.5	161.3
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°
3770.3	0°	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3	3770.3
3781.3	2.5°	3775.8	3768.0	3747.0	3718.3	3691.8	3658.6	3644.3	3632.1	3621.1	3600.1
3811.1	5°	3799.0	3778.0	3721.6	3648.7	3565.8	3475.2	3386.8	3326.0	3274.1	3235.4
3845.4	7.5°	3834.3	3794.6	3691.8	3542.6	3352.6	3158.1	2982.4	2857.5	2763.6	2729.3
3894.0	10°	3870.8	3823.3	3644.3	3381.3	3053.1	2753.7	2520.5	2392.3	2317.2	2292.9
3951.5	12.5°	3913.9	3844.3	3570.3	3157.0	2718.3	2390.1	2186.8	2111.7	2073.0	2059.7
4022.2	15°	3976.9	3862.0	3458.6	2876.3	2399.0	2124.9	1993.4	1941.5	1921.6	1920.5
4095.1	17.5°	4024.4	3865.3	3285.2	2575.8	2153.6	1964.7	1856.4	1836.5	1849.8	1869.7
4166.9	20°	4077.4	3835.4	3057.5	2301.7	1981.3	1824.4	1779.0	1792.3	1824.4	1853.1
4262.0	22.5°	4115.0	3781.3	2782.4	2088.4	1832.1	1743.7	1741.5	1769.1	1786.8	1801.1
4373.6	25°	4148.2	3689.6	2490.7	1909.4	1709.4	1695.1	1719.4	1710.5	1698.4	1710.5
4485.2	27.5°	4172.5	3544.8	2229.9	1752.5	1623.2	1661.9	1647.6	1627.7	1626.6	1633.2
4616.7	30°	4164.7	3351.5	2015.5	1603.4	1562.5	1600.0	1565.8	1562.5	1559.2	1562.5
4814.5	32.5°	4164.7	3131.6	1850.9	1500.6	1523.8	1509.4	1506.1	1498.4	1485.1	1484.0
5083.0	35°	4187.9	2911.7	1709.4	1445.3	1491.7	1457.5	1459.7	1440.9	1413.3	1400.0
5438.8	37.5°	4235.5	2734.9	1569.1	1418.8	1435.4	1434.3	1425.4	1393.4	1344.8	1302.8
5883.0	40°	4350.4	2682.9	1473.0	1406.7	1408.9	1422.1	1398.9	1337.0	1226.5	1158.0
6333.9	42.5°	4530.5	2770.2	1452.0	1376.8	1391.2	1404.5	1359.1	1215.5	1137.0	1096.2
6806.8	45°	4759.2	2922.7	1497.3	1333.7	1349.2	1372.4	1237.6	1169.1	1133.7	1134.8
7275.3	47.5°	5048.7	3082.9	1581.3	1296.2	1288.4	1301.7	1156.9	1114.9	1066.3	1078.5
7725.0	50°	5383.6	3245.4	1660.8	1245.3	1221.0	1177.9	1105.0	1065.2	1003.3	974.6
8159.3	52.5°	5746.0	3402.3	1692.9	1183.5	1148.1	1098.4	1069.6	1021.0	945.9	898.4
8569.3	55°	6089.6	3544.8	1657.5	1109.4	1075.2	1036.5	1032.1	1002.2	921.6	855.3
8933.9	57.5°	6414.5	3664.2	1569.1	1034.3	1001.1	977.9	1007.8	993.4	891.7	806.6
9278.7	60°	6689.7	3745.9	1440.9	958.0	934.8	922.7	968.0	963.6	849.7	754.7
9588.1	62.5°	6908.5	3778.0	1299.5	885.1	879.6	857.5	912.7	912.7	796.7	703.9
9859.9	65°	7079.7	3747.0	1155.8	813.3	824.3	791.2	845.3	838.7	740.3	658.6
10172.6	67.5°	7231.1	3645.4	996.7	742.6	768.0	726.0	774.6	759.1	678.5	613.3
10443.3	70°	7298.5	3408.9	815.5	671.8	702.8	661.9	703.9	675.2	608.9	564.7
10146.1	72.5°	6757.1	2833.2	642.0	597.8	624.3	591.2	627.6	594.5	533.7	513.8
8761.5	75°	5590.2	2126.0	493.9	517.1	537.0	511.6	535.9	511.6	456.4	470.7
6472.0	77.5°	4059.8	1435.4	377.9	432.1	440.9	427.6	448.6	421.0	371.3	368.0
3225.5	80°	2018.8	840.9	296.1	341.4	338.1	329.3	353.6	340.3	298.3	316.0
870.7	82.5°	584.5	360.2	215.5	239.8	233.2	235.4	253.0	259.7	389.0	385.6
270.7	85°	183.4	141.4	129.3	133.7	127.1	130.4	149.2	296.1	274.0	160.2
84.0	87.5°	47.5	48.6	32.0	34.3	35.4	42.0	47.5	180.1	86.2	56.4
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>
3770.3
3590.1
3203.4
2669.7
2255.3
2063.0
1924.9
1877.4
1863.0
1808.9
1718.3
1644.2
1574.6
1498.4
1413.3
1317.2
1166.9
1096.2
1140.4
1109.4
982.3
897.3
855.3
802.2
751.4
700.6
654.2
608.9
555.8
497.2
429.8
351.4
312.7
394.5
173.5
59.7
0.0

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