

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: P951243

Luminaire Tested: **GALN-SB5B-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951243
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-SB5B-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19339 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

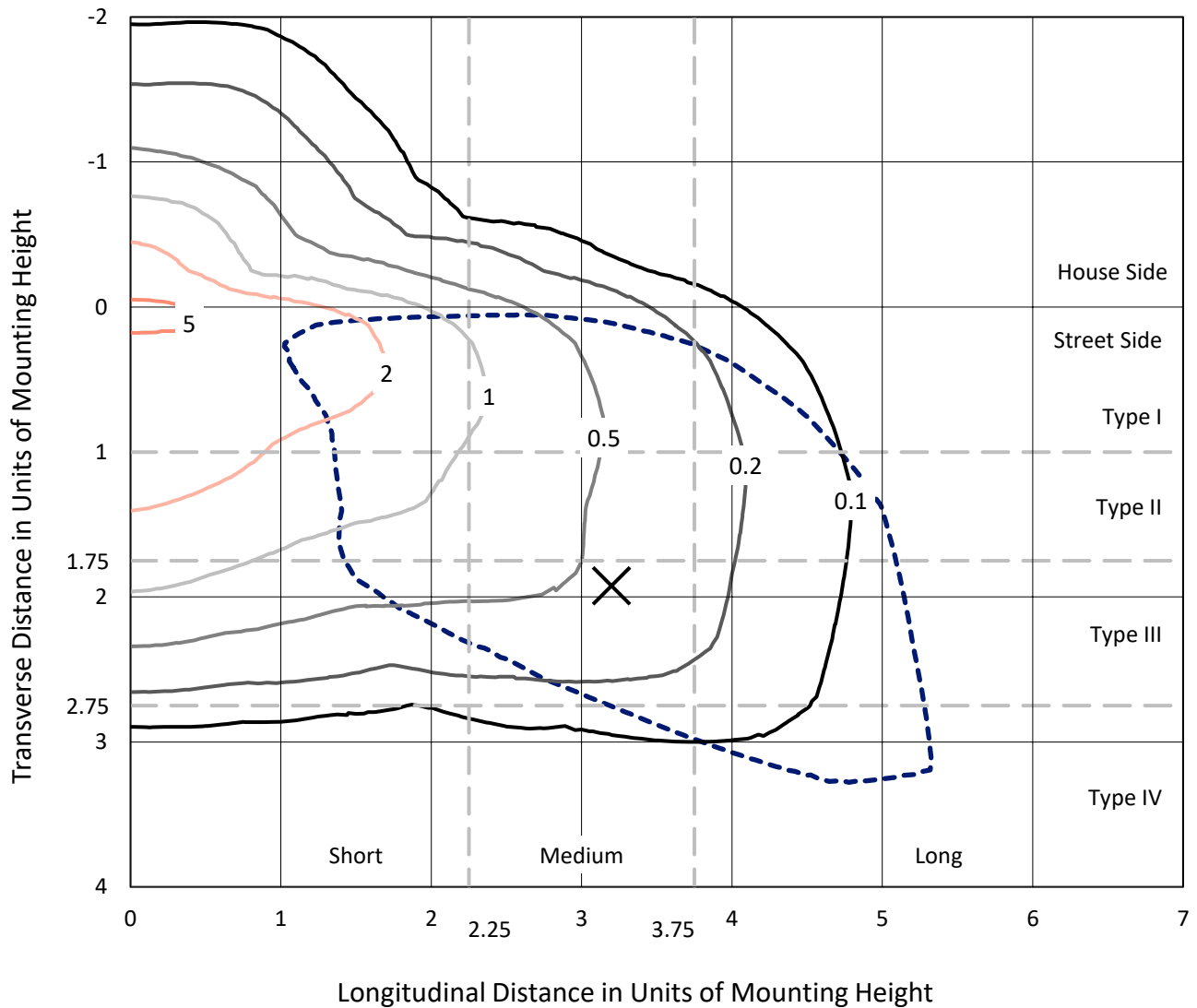
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

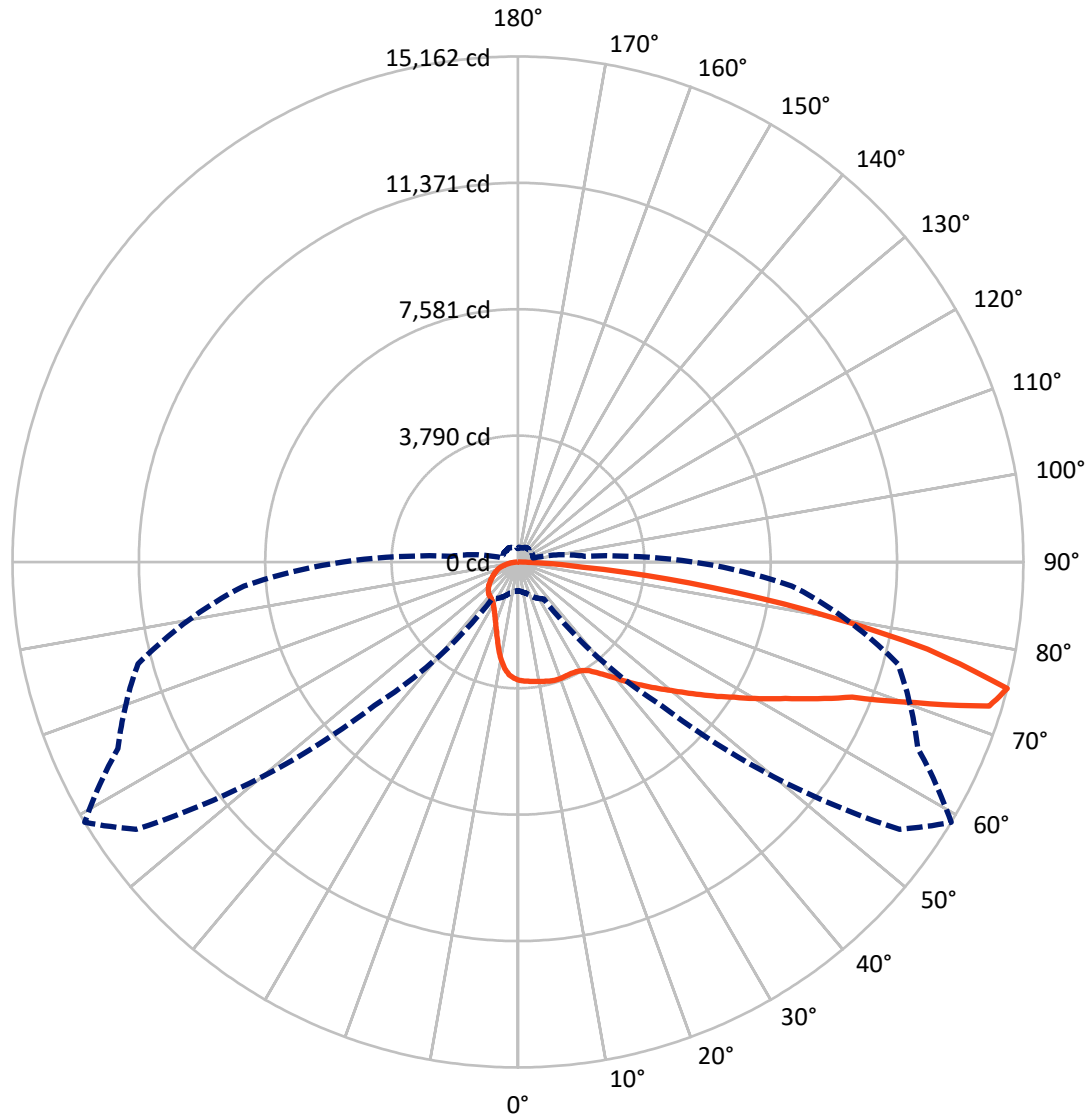
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3627.2	0.0	3627.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15711.8	0.0	15711.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	19339.0	0.0	19339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	1.6
10°-20°	813.5	4.2
20°-30°	1235.7	6.4
30°-40°	1836.9	9.5
40°-50°	2731.7	14.1
50°-60°	3708.0	19.2
60°-70°	4526.9	23.4
70°-80°	3552.6	18.4
80°-90°	615.4	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°	19339.0	100.0
0°-180°	19339.0	100.0

Coefficient of Utilization



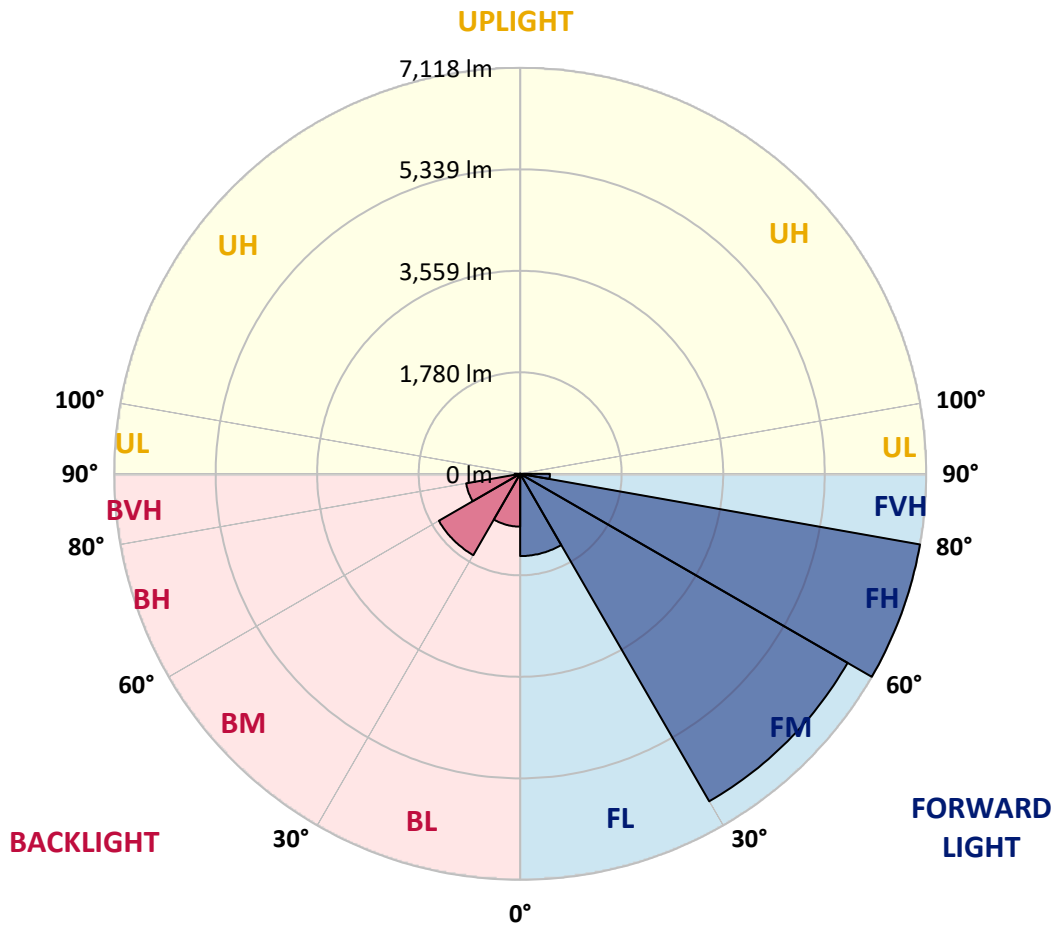
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.9	7.5			
FM (30°-60°)	6630.2	34.3			
FH (60°-80°)	7118.5	36.8			G3/7500
FVH (80°-90°)	521.2	2.7			G4/750
BL (0°-30°)	925.6	4.8	B2/1000		
BM (30°-60°)	1646.4	8.5	B2/2500		
BH (60°-80°)	961.0	5.0	B2/1000		G2/1000
BVH (80°-90°)	94.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6
2.5°	3579.8	3567.3	3579.8	3574.6	3572.5	3568.4	3569.4	3576.7	3572.5	3577.7
5°	3555.9	3548.6	3561.1	3558.0	3571.5	3573.6	3587.1	3595.4	3600.6	3601.6
7.5°	3516.3	3509.1	3526.7	3541.3	3570.4	3578.8	3606.8	3620.4	3627.7	3640.1
10°	3371.7	3368.6	3412.3	3467.4	3536.1	3578.8	3621.4	3644.3	3655.7	3689.0
12.5°	3115.8	3120.0	3177.2	3283.3	3420.6	3558.0	3638.1	3671.3	3689.0	3730.6
15°	2871.3	2870.3	2932.7	3046.1	3238.6	3466.4	3646.4	3703.6	3733.8	3795.1
17.5°	2729.8	2725.7	2769.4	2855.7	3034.7	3326.0	3625.6	3721.3	3785.8	3862.8
20°	2703.8	2695.5	2718.4	2761.1	2888.0	3172.0	3571.5	3721.3	3827.4	3927.3
22.5°	2798.5	2785.0	2775.6	2770.4	2826.6	3045.1	3510.1	3708.8	3888.8	4019.9
25°	2988.9	2968.1	2920.2	2873.4	2856.8	2987.8	3456.0	3705.7	3980.3	4144.7
27.5°	3296.8	3270.8	3174.1	3061.7	2960.8	3017.0	3432.1	3724.4	4081.2	4276.8
30°	3678.6	3650.5	3528.8	3356.1	3175.1	3125.2	3462.2	3779.5	4210.2	4452.6
32.5°	4020.9	3989.7	3885.7	3709.8	3465.4	3312.4	3558.0	3884.6	4413.1	4697.1
35°	4324.7	4288.3	4194.6	4032.3	3821.2	3575.6	3730.6	4070.8	4701.3	5094.5
37.5°	4622.2	4579.6	4477.6	4306.0	4158.2	3926.2	3968.9	4310.1	5084.1	5577.2
40°	4955.1	4893.7	4769.9	4600.4	4456.8	4337.2	4282.0	4603.5	5473.2	6116.1
42.5°	5277.6	5219.4	5071.6	4927.0	4747.1	4712.7	4645.1	4946.8	5898.7	6708.1
45°	5625.1	5555.4	5376.5	5193.4	5080.0	4962.4	4996.7	5290.1	6315.9	7311.5
47.5°	5950.7	5872.7	5661.5	5457.6	5395.2	5172.6	5319.2	5667.8	6749.7	7923.2
50°	6126.5	6049.6	5873.7	5689.6	5640.7	5431.6	5668.8	6082.9	7204.3	8532.8
52.5°	6273.2	6190.0	5960.1	5858.1	5843.6	5713.5	6099.5	6557.2	7659.0	9071.7
55°	6429.3	6336.7	6043.3	5951.8	6018.4	6029.8	6610.3	7095.1	8139.6	9597.1
57.5°	6609.3	6491.7	6123.4	6030.8	6189.0	6400.2	7197.1	7652.7	8611.9	10084.0
60°	6778.8	6660.2	6277.4	6156.7	6373.1	6829.8	7870.2	8327.9	9146.6	10517.8
62.5°	6812.1	6714.3	6400.2	6399.1	6622.8	7331.3	8667.0	9009.3	9613.8	10946.4
65°	6235.8	6174.4	5988.2	6389.8	6980.7	8053.2	9554.5	9881.1	10207.8	11320.9
67.5°	4746.0	4754.3	4740.8	5515.9	6691.4	9090.5	10839.3	10814.3	10941.2	11741.2
70°	2170.1	2219.0	2537.4	3807.6	5360.9	9210.1	12963.6	12640.1	11861.9	12285.3
72.5°	1172.5	1209.9	1340.0	1844.5	3223.0	8188.5	14551.2	14781.1	13086.4	12651.5
75°	860.4	881.2	971.7	1172.5	1353.5	6086.0	13982.1	15161.9	13239.3	11797.4
77.5°	644.0	653.3	727.2	929.0	692.9	3208.4	11172.2	12556.9	11333.4	9692.8
80°	467.1	477.5	532.7	697.0	485.8	1173.5	7671.4	8813.7	7762.0	6178.6
82.5°	322.5	326.7	350.6	474.4	339.1	455.7	4352.8	5168.4	4333.0	2168.1
85°	194.5	199.7	210.1	276.7	192.5	216.4	1878.8	1943.3	1295.2	518.1
87.5°	80.1	85.3	93.6	116.5	75.9	60.3	310.0	389.1	242.4	151.9
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°
3549.6	0°	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6	3549.6
3560.0	2.5°	3554.8	3547.5	3527.8	3500.7	3475.8	3444.6	3431.0	3419.6	3409.2	3389.4
3588.1	5°	3576.7	3556.9	3503.9	3435.2	3357.2	3271.9	3188.6	3131.4	3082.5	3046.1
3620.4	7.5°	3610.0	3572.5	3475.8	3335.3	3156.4	2973.3	2807.9	2690.3	2601.9	2569.6
3666.1	10°	3644.3	3599.6	3431.0	3183.4	2874.5	2592.5	2373.0	2252.3	2181.6	2158.7
3720.2	12.5°	3684.9	3619.3	3361.3	2972.2	2559.2	2250.2	2058.8	1988.1	1951.7	1939.2
3786.8	15°	3744.2	3636.0	3256.3	2708.0	2258.6	2000.6	1876.8	1827.9	1809.1	1808.1
3855.5	17.5°	3788.9	3639.1	3092.9	2425.0	2027.6	1849.7	1747.8	1729.0	1741.5	1760.3
3923.1	20°	3838.8	3611.0	2878.6	2167.0	1865.3	1717.6	1674.9	1687.4	1717.6	1744.6
4012.6	22.5°	3874.2	3560.0	2619.6	1966.2	1724.9	1641.7	1639.6	1665.6	1682.2	1695.7
4117.7	25°	3905.4	3473.7	2344.9	1797.7	1609.4	1595.9	1618.8	1610.4	1599.0	1610.4
4222.7	27.5°	3928.3	3337.4	2099.4	1650.0	1528.3	1564.7	1551.1	1532.4	1531.4	1537.6
4346.5	30°	3921.0	3155.3	1897.6	1509.5	1471.0	1506.4	1474.2	1471.0	1467.9	1471.0
4532.7	32.5°	3921.0	2948.3	1742.6	1412.8	1434.6	1421.1	1418.0	1410.7	1398.2	1397.2
4785.6	35°	3942.9	2741.3	1609.4	1360.8	1404.5	1372.2	1374.3	1356.6	1330.6	1318.1
5120.5	37.5°	3987.6	2574.8	1477.3	1335.8	1351.4	1350.4	1342.0	1311.9	1266.1	1226.6
5538.8	40°	4095.8	2525.9	1386.8	1324.3	1326.4	1338.9	1317.1	1258.8	1154.8	1090.3
5963.2	42.5°	4265.4	2608.1	1367.0	1296.3	1309.8	1322.3	1279.6	1144.4	1070.5	1032.0
6408.5	45°	4480.7	2751.7	1409.7	1255.7	1270.3	1292.1	1165.2	1100.7	1067.4	1068.4
6849.6	47.5°	4753.3	2902.5	1488.7	1220.3	1213.0	1225.5	1089.2	1049.7	1003.9	1015.4
7273.0	50°	5068.5	3055.5	1563.6	1172.5	1149.6	1109.0	1040.3	1002.9	944.6	917.6
7681.8	52.5°	5409.8	3203.2	1593.8	1114.2	1080.9	1034.1	1007.0	961.3	890.5	845.8
8067.8	55°	5733.3	3337.4	1560.5	1044.5	1012.2	975.8	971.7	943.6	867.6	805.2
8411.1	57.5°	6039.2	3449.8	1477.3	973.8	942.5	920.7	948.8	935.3	839.6	759.4
8735.7	60°	6298.2	3526.7	1356.6	902.0	880.1	868.7	911.3	907.2	800.0	710.6
9027.0	62.5°	6504.2	3556.9	1223.4	833.3	828.1	807.3	859.3	859.3	750.1	662.7
9282.9	65°	6665.4	3527.8	1088.2	765.7	776.1	744.9	795.9	789.6	697.0	620.0
9577.3	67.5°	6808.0	3432.1	938.4	699.1	723.0	683.5	729.3	714.7	638.8	577.4
9832.2	70°	6871.4	3209.4	767.8	632.5	661.7	623.2	662.7	635.6	573.2	531.6
9552.4	72.5°	6361.7	2667.4	604.4	562.8	587.8	556.6	590.9	559.7	502.5	483.8
8248.8	75°	5263.1	2001.6	465.0	486.9	505.6	481.7	504.6	481.7	429.7	443.2
6093.3	77.5°	3822.2	1351.4	355.8	406.8	415.1	402.6	422.4	396.4	349.6	346.4
3036.7	80°	1900.7	791.7	278.8	321.5	318.3	310.0	332.9	320.4	280.9	297.5
819.8	82.5°	550.3	339.1	202.9	225.8	219.5	221.6	238.2	244.5	366.2	363.1
254.9	85°	172.7	133.2	121.7	125.9	119.6	122.8	140.4	278.8	258.0	150.8
79.1	87.5°	44.7	45.8	30.2	32.3	33.3	39.5	44.7	169.6	81.1	53.1
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>
3549.6
3380.1
3015.9
2513.5
2123.3
1942.3
1812.3
1767.5
1754.0
1703.0
1617.7
1548.0
1482.5
1410.7
1330.6
1240.1
1098.6
1032.0
1073.6
1044.5
924.9
844.8
805.2
755.3
707.4
659.6
615.9
573.2
523.3
468.2
404.7
330.8
294.4
371.4
163.3
56.2
0.0

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