

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: P947568

Luminaire Tested: **GALN-SB2D-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947568
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-SB2D-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19024 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

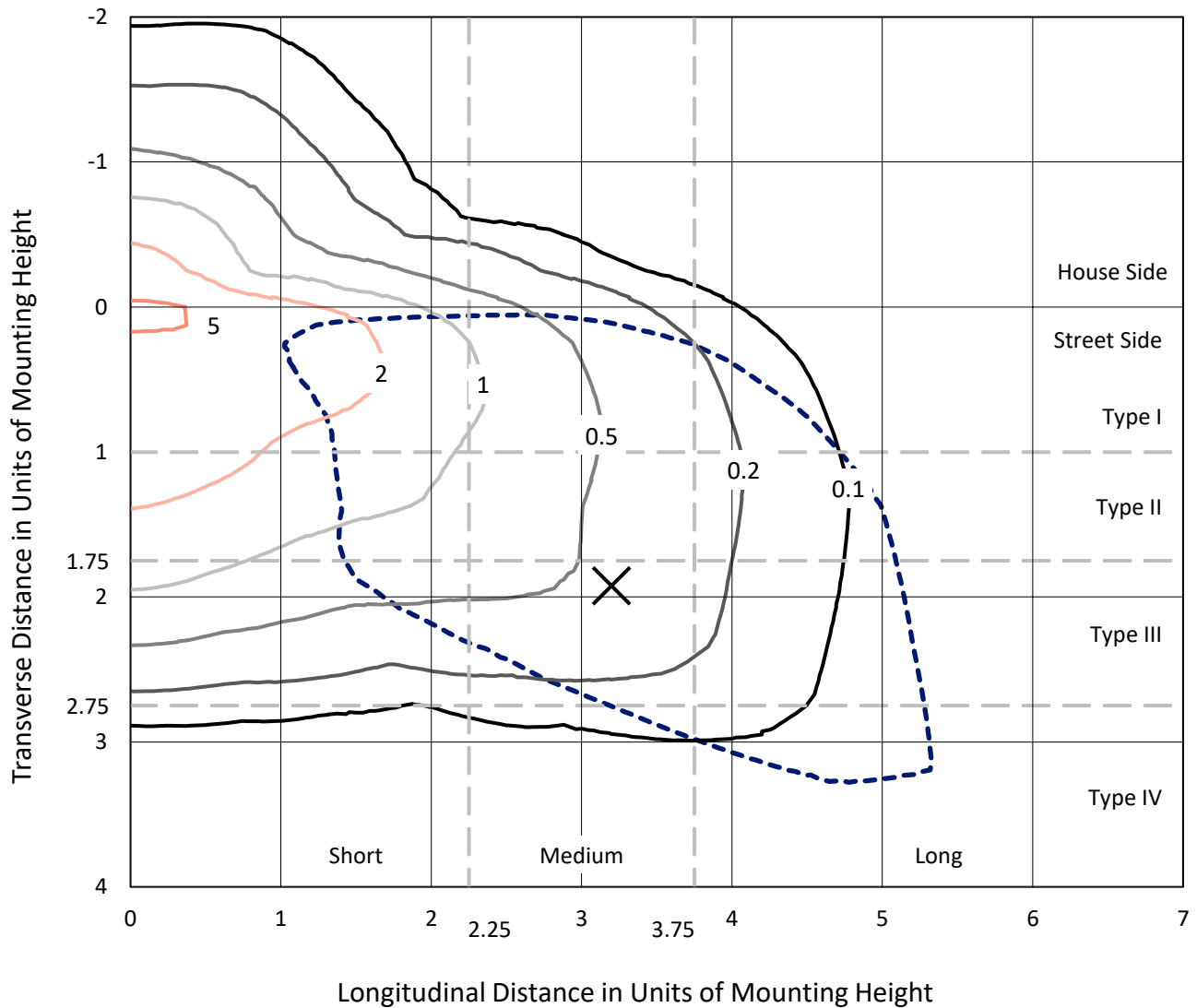
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

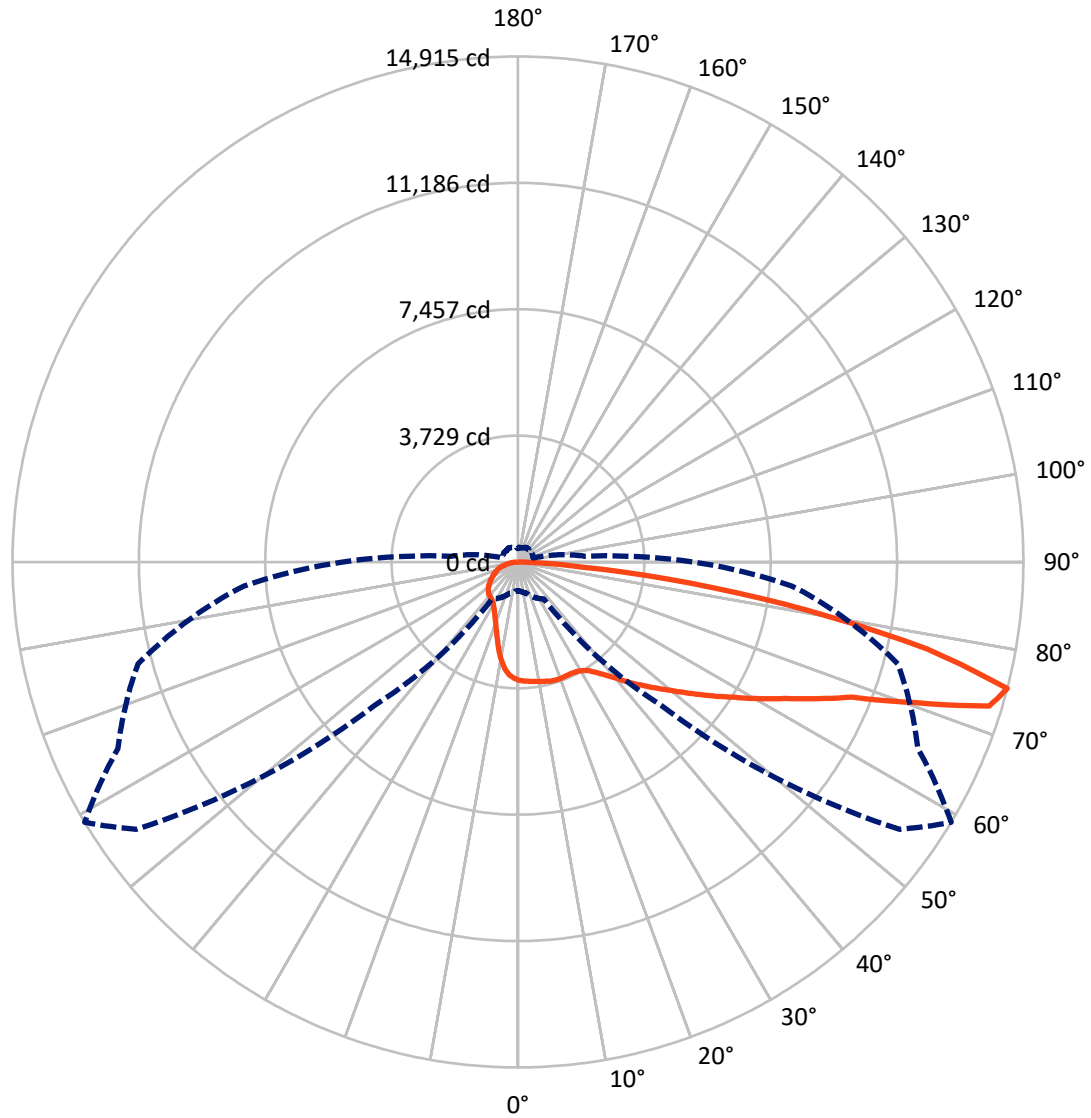
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3568.1	0.0	3568.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15455.9	0.0	15455.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	19024.0	0.0	19024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.6
10°-20°	800.3	4.2
20°-30°	1215.6	6.4
30°-40°	1806.9	9.5
40°-50°	2687.2	14.1
50°-60°	3647.6	19.2
60°-70°	4453.1	23.4
70°-80°	3494.8	18.4
80°-90°	605.4	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°	19024.0	100.0
0°-180°	19024.0	100.0

Coefficient of Utilization



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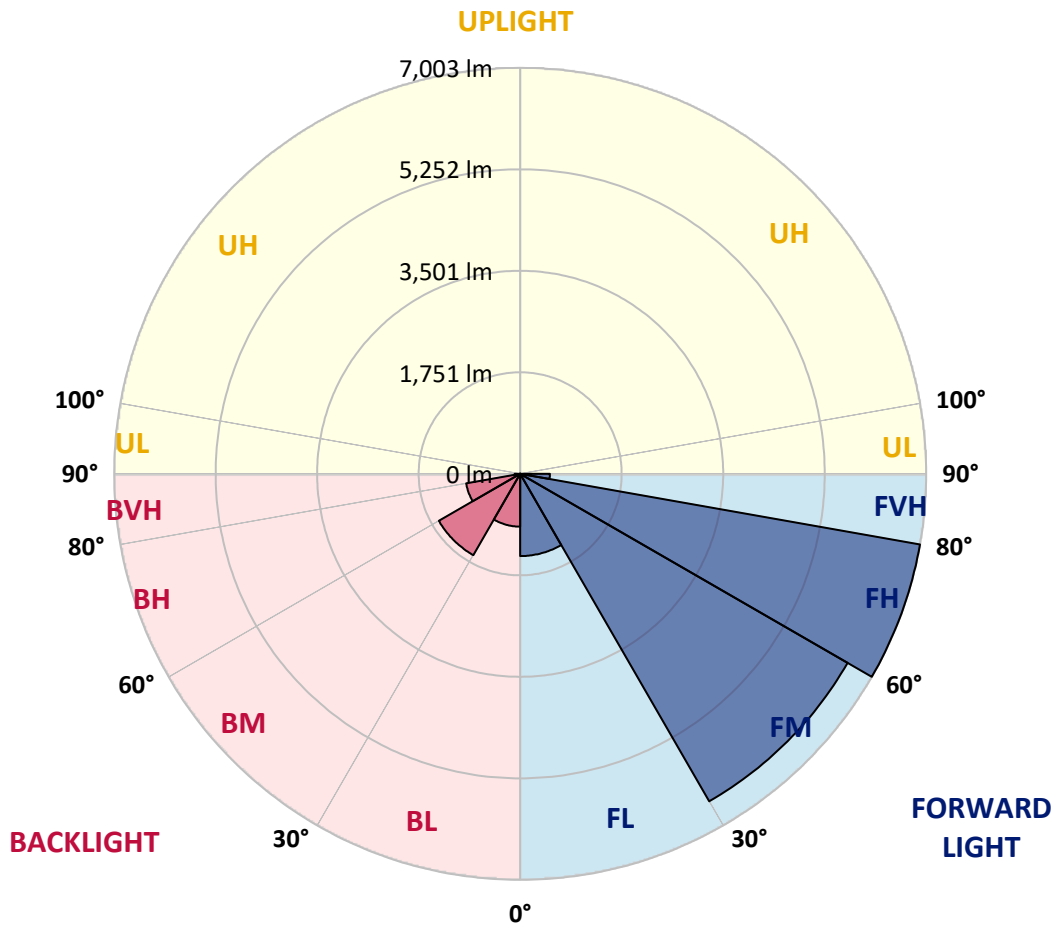
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.4	7.5			
FM (30°-60°)	6522.2	34.3			
FH (60°-80°)	7002.5	36.8			G3/7500
FVH (80°-90°)	512.7	2.7			G4/750
BL (0°-30°)	910.5	4.8	B2/1000		
BM (30°-60°)	1619.6	8.5	B2/2500		
BH (60°-80°)	945.3	5.0	B2/1000		G2/1000
BVH (80°-90°)	92.7	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°	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8
2.5°	3521.5	3509.2	3521.5	3516.4	3514.3	3510.2	3511.3	3518.4	3514.3	3519.4
5°	3498.0	3490.8	3503.1	3500.0	3513.3	3515.4	3528.7	3536.8	3542.0	3543.0
7.5°	3459.1	3451.9	3469.3	3483.6	3512.3	3520.5	3548.1	3561.4	3568.6	3580.8
10°	3316.8	3313.7	3356.7	3411.0	3478.5	3520.5	3562.4	3584.9	3596.2	3628.9
12.5°	3065.1	3069.2	3125.4	3229.8	3364.9	3500.0	3578.8	3611.5	3628.9	3669.9
15°	2824.6	2823.5	2884.9	2996.5	3185.8	3409.9	3587.0	3643.3	3673.0	3733.3
17.5°	2685.4	2681.3	2724.3	2809.2	2985.2	3271.8	3566.5	3660.7	3724.1	3799.9
20°	2659.8	2651.6	2674.1	2716.1	2840.9	3120.3	3513.3	3660.7	3765.1	3863.3
22.5°	2752.9	2739.6	2730.4	2725.3	2780.6	2995.5	3452.9	3648.4	3825.4	3954.4
25°	2940.2	2919.7	2872.7	2826.6	2810.2	2939.2	3399.7	3645.3	3915.5	4077.2
27.5°	3243.1	3217.5	3122.4	3011.8	2912.6	2967.8	3376.2	3663.7	4014.8	4207.2
30°	3618.7	3591.1	3471.3	3301.5	3123.4	3074.3	3405.8	3718.0	4141.7	4380.1
32.5°	3955.4	3924.7	3822.4	3649.4	3408.9	3258.5	3500.0	3821.3	4341.2	4620.6
35°	4254.2	4218.4	4126.3	3966.7	3758.9	3517.4	3669.9	4004.5	4624.7	5011.5
37.5°	4546.9	4505.0	4404.7	4235.8	4090.5	3862.3	3904.2	4239.9	5001.3	5486.4
40°	4874.4	4814.0	4692.3	4525.4	4384.2	4266.5	4212.3	4528.5	5384.1	6016.5
42.5°	5191.7	5134.4	4989.0	4846.8	4669.7	4636.0	4569.4	4866.2	5802.6	6598.8
45°	5533.5	5464.9	5288.9	5108.8	4997.2	4881.6	4915.4	5203.9	6213.0	7192.4
47.5°	5853.8	5777.0	5569.3	5368.7	5307.3	5088.3	5232.6	5575.4	6639.8	7794.2
50°	6026.8	5951.0	5778.1	5596.9	5548.8	5343.1	5576.5	5983.8	7087.0	8393.9
52.5°	6171.1	6089.2	5863.0	5762.7	5748.4	5620.5	6000.1	6450.4	7534.2	8924.0
55°	6324.6	6233.5	5944.9	5854.8	5920.3	5931.6	6502.6	6979.5	8007.0	9440.8
57.5°	6501.6	6386.0	6023.7	5932.6	6088.2	6295.9	7079.8	7528.1	8471.6	9919.7
60°	6668.4	6551.8	6175.1	6056.4	6269.3	6718.6	7742.0	8192.3	8997.7	10346.5
62.5°	6701.2	6605.0	6295.9	6294.9	6514.9	7211.8	8525.9	8862.6	9457.2	10768.1
65°	6134.2	6073.8	5890.6	6285.7	6867.0	7922.1	9398.8	9720.2	10041.5	11136.5
67.5°	4668.7	4676.9	4663.6	5426.0	6582.5	8942.4	10662.7	10638.2	10763.0	11550.0
70°	2134.8	2182.9	2496.1	3745.6	5273.5	9060.1	12752.5	12434.2	11668.7	12085.2
72.5°	1153.4	1190.2	1318.1	1814.5	3170.5	8055.1	14314.2	14540.4	12873.2	12445.5
75°	846.3	866.8	955.8	1153.4	1331.4	5986.8	13754.4	14914.9	13023.7	11605.3
77.5°	633.5	642.7	715.4	913.9	681.6	3156.1	10990.2	12352.3	11148.8	9534.9
80°	459.5	469.7	524.0	685.7	477.9	1154.4	7546.5	8670.2	7635.5	6077.9
82.5°	317.3	321.3	344.9	466.7	333.6	448.2	4281.9	5084.2	4262.4	2132.7
85°	191.4	196.5	206.7	272.2	189.3	212.9	1848.2	1911.7	1274.1	509.6
87.5°	78.8	83.9	92.1	114.6	74.7	59.4	305.0	382.7	238.5	149.4
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°
3491.8	0°	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8	3491.8
3502.0	2.5°	3496.9	3489.8	3470.3	3443.7	3419.2	3388.5	3375.1	3363.9	3353.7	3334.2
3529.7	5°	3518.4	3499.0	3446.8	3379.2	3302.5	3218.6	3136.7	3080.4	3032.3	2996.5
3561.4	7.5°	3551.2	3514.3	3419.2	3281.0	3105.0	2924.9	2762.1	2646.5	2559.5	2527.8
3606.4	10°	3584.9	3540.9	3375.1	3131.6	2827.6	2550.3	2334.4	2215.6	2146.1	2123.5
3659.6	12.5°	3624.9	3560.4	3306.6	2923.8	2517.5	2213.6	2025.3	1955.7	1919.9	1907.6
3725.1	15°	3683.2	3576.8	3203.2	2663.9	2221.8	1968.0	1846.2	1798.1	1779.7	1778.7
3792.7	17.5°	3727.2	3579.8	3042.5	2385.5	1994.6	1819.6	1719.3	1700.9	1713.2	1731.6
3859.2	20°	3776.3	3552.2	2831.7	2131.7	1834.9	1689.6	1647.7	1659.9	1689.6	1716.2
3947.2	22.5°	3811.1	3502.0	2576.9	1934.2	1696.8	1614.9	1612.9	1638.5	1654.8	1668.1
4050.6	25°	3841.8	3417.1	2306.7	1768.4	1583.2	1569.9	1592.4	1584.2	1573.0	1584.2
4153.9	27.5°	3864.3	3283.0	2065.2	1623.1	1503.4	1539.2	1525.9	1507.5	1506.4	1512.6
4275.7	30°	3857.2	3103.9	1866.7	1484.9	1447.1	1481.9	1450.1	1447.1	1444.0	1447.1
4458.9	32.5°	3857.2	2900.3	1714.2	1389.8	1411.3	1398.0	1394.9	1387.7	1375.4	1374.4
4707.6	35°	3878.7	2696.6	1583.2	1338.6	1381.6	1349.9	1351.9	1334.5	1308.9	1296.6
5037.1	37.5°	3922.7	2532.9	1453.2	1314.0	1329.4	1328.4	1320.2	1290.5	1245.5	1206.6
5448.5	40°	4029.1	2484.8	1364.2	1302.8	1304.8	1317.1	1295.6	1238.3	1136.0	1072.5
5866.1	42.5°	4195.9	2565.6	1344.7	1275.1	1288.5	1300.7	1258.8	1125.7	1053.1	1015.2
6304.1	45°	4407.7	2706.9	1386.7	1235.2	1249.6	1271.1	1146.2	1082.7	1050.0	1051.0
6738.0	47.5°	4675.9	2855.3	1464.5	1200.4	1193.3	1205.6	1071.5	1032.6	987.6	998.8
7154.5	50°	4986.0	3005.7	1538.2	1153.4	1130.8	1090.9	1023.4	986.5	929.2	902.6
7556.7	52.5°	5321.6	3151.0	1567.8	1096.1	1063.3	1017.3	990.6	945.6	876.0	832.0
7936.4	55°	5639.9	3283.0	1535.1	1027.5	995.8	959.9	955.8	928.2	853.5	792.1
8274.1	57.5°	5940.8	3393.6	1453.2	957.9	927.2	905.7	933.3	920.0	825.9	747.1
8593.4	60°	6195.6	3469.3	1334.5	887.3	865.8	854.5	896.5	892.4	787.0	699.0
8880.0	62.5°	6398.2	3499.0	1203.5	819.7	814.6	794.2	845.3	845.3	737.9	651.9
9131.7	65°	6556.9	3470.3	1070.5	753.2	763.5	732.7	782.9	776.8	685.7	609.9
9421.3	67.5°	6697.1	3376.2	923.1	687.7	711.3	672.4	717.4	703.1	628.4	568.0
9672.1	70°	6759.5	3157.2	755.3	622.2	650.9	613.0	651.9	625.3	563.9	523.0
9396.8	72.5°	6258.0	2624.0	594.6	553.7	578.2	547.5	581.3	550.6	494.3	475.9
8114.5	75°	5177.3	1969.0	457.5	478.9	497.4	473.8	496.3	473.8	422.7	436.0
5994.0	77.5°	3759.9	1329.4	350.0	400.1	408.3	396.1	415.5	389.9	343.9	340.8
2987.3	80°	1869.7	778.8	274.3	316.2	313.2	305.0	327.5	315.2	276.3	292.7
806.4	82.5°	541.4	333.6	199.6	222.1	215.9	218.0	234.4	240.5	360.2	357.2
250.7	85°	169.9	131.0	119.7	123.8	117.7	120.8	138.2	274.3	253.8	148.4
77.8	87.5°	44.0	45.0	29.7	31.7	32.7	38.9	44.0	166.8	79.8	52.2
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>
3491.8
3325.0
2966.8
2472.5
2088.7
1910.7
1782.7
1738.7
1725.4
1675.3
1591.4
1522.8
1458.3
1387.7
1308.9
1219.9
1080.7
1015.2
1056.1
1027.5
909.8
831.0
792.1
743.0
695.9
648.8
605.8
563.9
514.8
460.5
<i>398.1</i>
325.4
289.6
365.4
160.7
55.3
0.0

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