

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: P949080

Luminaire Tested: **GALN-SB3D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949080
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-SB3D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 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: 21623 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

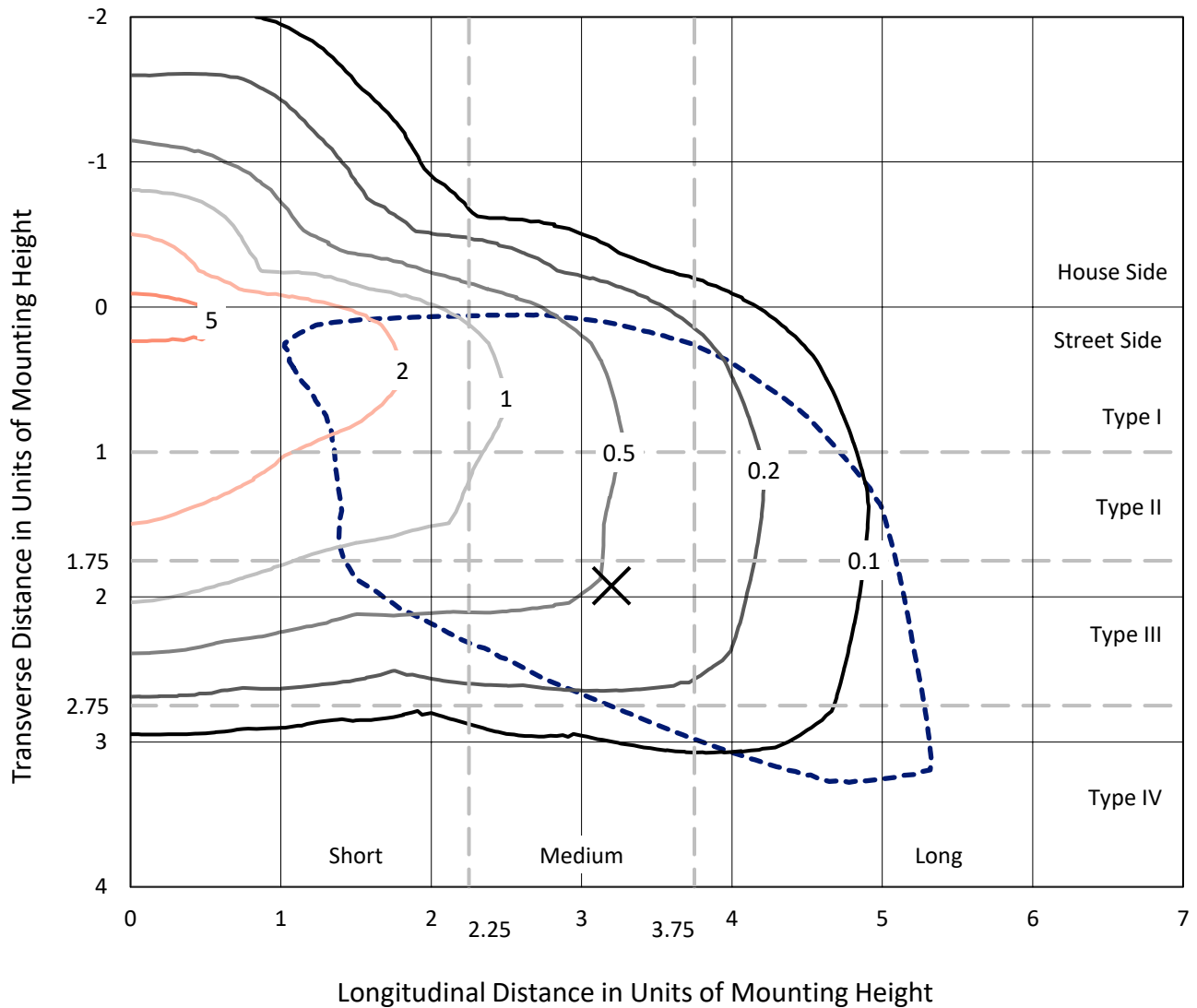
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

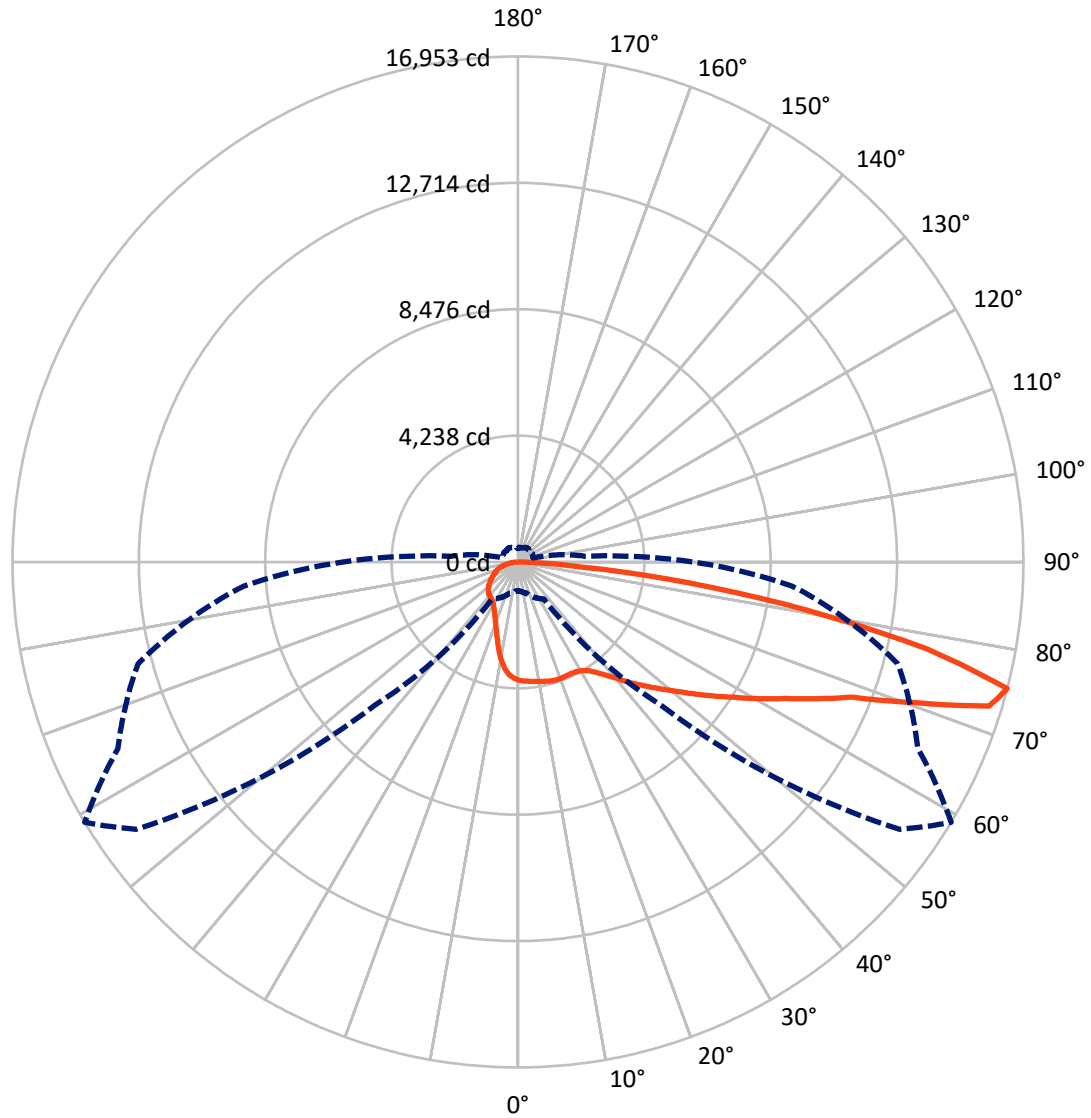
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	4055.5	0.0	4055.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17567.4	0.0	17567.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	21623.0	0.0	21623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.6
10°-20°	909.6	4.2
20°-30°	1381.7	6.4
30°-40°	2053.8	9.5
40°-50°	3054.4	14.1
50°-60°	4145.9	19.2
60°-70°	5061.5	23.4
70°-80°	3972.2	18.4
80°-90°	688.1	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°	21623.0	100.0
0°-180°	21623.0	100.0



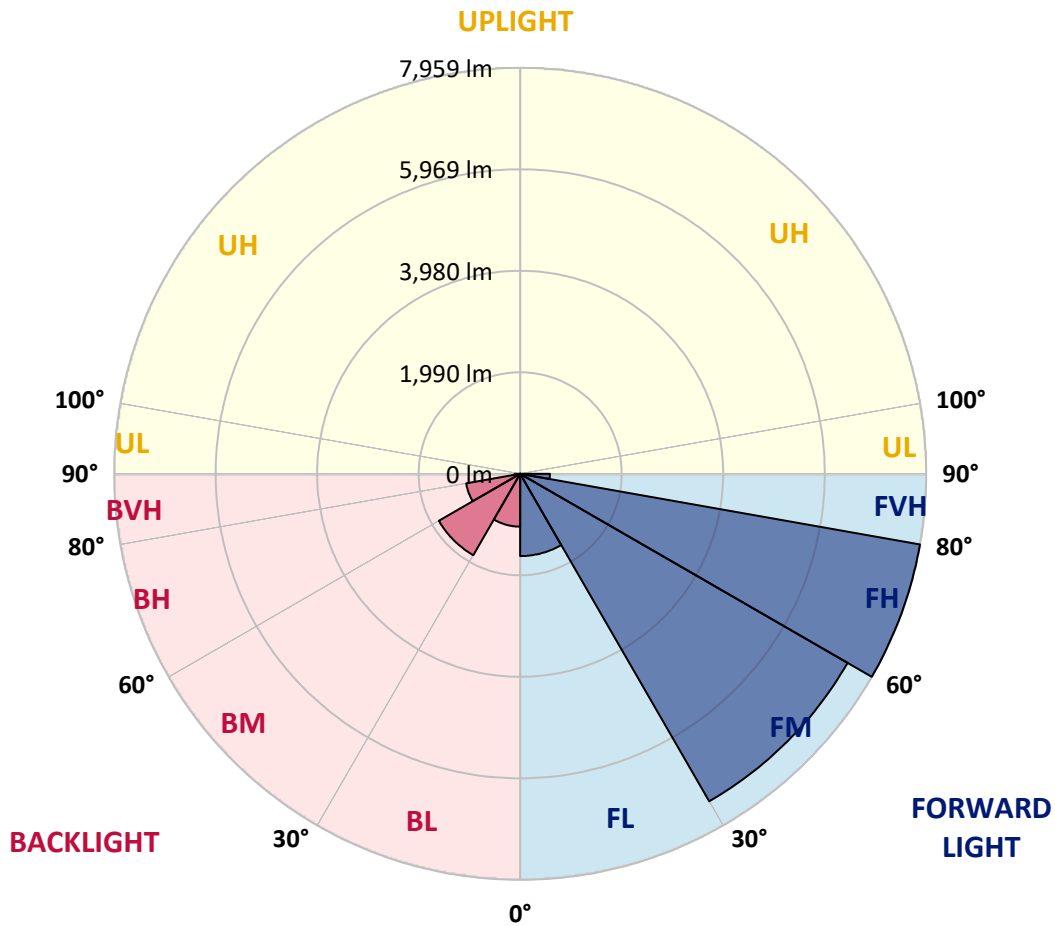
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.2	7.5			
FM (30°-60°)	7413.3	34.3			
FH (60°-80°)	7959.2	36.8			G4/12000
FVH (80°-90°)	582.7	2.7			G4/750
BL (0°-30°)	1034.9	4.8	B3/2500		
BM (30°-60°)	1840.8	8.5	B2/2500		
BH (60°-80°)	1074.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	105.3	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°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
2.5°	4002.6	3988.6	4002.6	3996.8	3994.4	3989.8	3991.0	3999.1	3994.4	4000.3
5°	3975.8	3967.7	3981.6	3978.2	3993.3	3995.6	4010.7	4020.0	4025.9	4027.0
7.5°	3931.6	3923.5	3943.3	3959.5	3992.1	4001.4	4032.8	4048.0	4056.1	4070.1
10°	3769.9	3766.5	3815.3	3877.0	3953.7	4001.4	4049.1	4074.7	4087.5	4124.7
12.5°	3483.8	3488.5	3552.4	3671.1	3824.6	3978.2	4067.7	4104.9	4124.7	4171.3
15°	3210.4	3209.3	3279.1	3405.9	3621.1	3875.8	4077.0	4141.0	4174.7	4243.4
17.5°	3052.2	3047.6	3096.5	3193.0	3393.1	3718.8	4053.8	4160.8	4232.9	4319.0
20°	3023.2	3013.9	3039.5	3087.1	3229.1	3546.6	3993.3	4160.8	4279.4	4391.1
22.5°	3129.0	3113.9	3103.4	3097.6	3160.4	3404.7	3924.7	4146.8	4348.1	4494.6
25°	3341.9	3318.6	3265.1	3212.8	3194.2	3340.7	3864.2	4143.3	4450.4	4634.2
27.5°	3686.2	3657.1	3548.9	3423.3	3310.5	3373.3	3837.4	4164.3	4563.3	4781.9
30°	4113.1	4081.7	3945.6	3752.5	3550.1	3494.3	3871.1	4225.9	4707.5	4978.5
32.5°	4495.8	4460.9	4344.6	4148.0	3874.6	3703.6	3978.2	4343.4	4934.3	5251.9
35°	4835.4	4794.7	4690.0	4508.6	4272.4	3997.9	4171.3	4551.6	5256.5	5696.2
37.5°	5168.1	5120.4	5006.4	4814.5	4649.3	4389.9	4437.6	4819.2	5684.6	6235.9
40°	5540.3	5471.7	5333.3	5143.7	4983.2	4849.4	4787.7	5147.2	6119.6	6838.5
42.5°	5900.9	5835.8	5670.6	5508.9	5307.7	5269.3	5193.7	5531.0	6595.4	7500.3
45°	6289.4	6211.5	6011.4	5806.7	5679.9	5548.5	5586.9	5914.9	7061.8	8175.0
47.5°	6653.5	6566.3	6330.2	6102.2	6032.4	5783.5	5947.5	6337.1	7546.9	8859.0
50°	6850.1	6764.0	6567.5	6361.6	6306.9	6073.1	6338.3	6801.3	8055.2	9540.6
52.5°	7014.1	6921.1	6664.0	6550.0	6533.7	6388.3	6819.9	7331.7	8563.5	10143.1
55°	7188.6	7085.1	6757.1	6654.7	6729.1	6741.9	7391.0	7933.1	9100.9	10730.6
57.5°	7389.8	7258.4	6846.6	6743.1	6919.9	7156.0	8047.0	8556.5	9629.0	11274.9
60°	7579.4	7446.8	7018.8	6883.8	7125.8	7636.4	8799.6	9311.5	10226.9	11760.0
62.5°	7616.7	7507.3	7156.0	7154.9	7405.0	8197.1	9690.7	10073.4	10749.2	12239.2
65°	6972.2	6903.6	6695.4	7144.4	7805.1	9004.4	10682.9	11048.1	11413.4	12658.0
67.5°	5306.5	5315.8	5300.7	6167.3	7481.7	10164.1	12119.4	12091.5	12233.4	13127.9
70°	2426.4	2481.1	2837.1	4257.3	5994.0	10297.8	14494.7	14132.9	13262.9	13736.3
72.5°	1310.9	1352.8	1498.2	2062.4	3603.6	9155.6	16269.7	16526.8	14631.9	14145.7
75°	962.0	985.2	1086.4	1310.9	1513.3	6804.7	15633.5	16952.5	14802.9	13190.7
77.5°	720.0	730.5	813.1	1038.7	774.7	3587.3	12491.7	14039.9	12671.9	10837.6
80°	522.3	533.9	595.6	779.3	543.2	1312.1	8577.5	9854.7	8678.7	6908.3
82.5°	360.6	365.2	392.0	530.4	379.2	509.5	4866.8	5778.8	4844.7	2424.1
85°	217.5	223.3	235.0	309.4	215.2	241.9	2100.7	2172.9	1448.2	579.3
87.5°	89.6	95.4	104.7	130.3	84.9	67.5	346.6	435.0	271.0	169.8
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°
3968.9	0°	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9	3968.9
3980.5	2.5°	3974.7	3966.5	3944.4	3914.2	3886.3	3851.4	3836.2	3823.5	3811.8	3789.7
4011.9	5°	3999.1	3977.0	3917.7	3840.9	3753.7	3658.3	3565.2	3501.2	3446.6	3405.9
4048.0	7.5°	4036.3	3994.4	3886.3	3729.2	3529.2	3324.4	3139.5	3008.0	2909.2	2873.1
4099.1	10°	4074.7	4024.7	3836.2	3559.4	3213.9	2898.7	2653.3	2518.3	2439.2	2413.6
4159.6	12.5°	4120.1	4046.8	3758.3	3323.3	2861.5	2516.0	2302.0	2222.9	2182.2	2168.2
4234.1	15°	4186.4	4065.4	3640.8	3027.8	2525.3	2236.8	2098.4	2043.8	2022.8	2021.6
4310.8	17.5°	4236.4	4068.9	3458.2	2711.4	2267.1	2068.2	1954.2	1933.2	1947.2	1968.1
4386.4	20°	4292.2	4037.5	3218.6	2423.0	2085.6	1920.5	1872.8	1886.7	1920.5	1950.7
4486.5	22.5°	4331.8	3980.5	2928.9	2198.5	1928.6	1835.5	1833.2	1862.3	1880.9	1896.0
4604.0	25°	4366.7	3883.9	2621.9	2010.0	1799.5	1784.4	1809.9	1800.6	1787.8	1800.6
4721.4	27.5°	4392.3	3731.6	2347.3	1844.8	1708.7	1749.5	1734.3	1713.4	1712.2	1719.2
4859.9	30°	4384.1	3528.0	2121.7	1687.8	1644.8	1684.3	1648.3	1644.8	1641.3	1644.8
5068.1	32.5°	4384.1	3296.5	1948.4	1579.6	1604.1	1588.9	1585.4	1577.3	1563.3	1562.2
5350.7	35°	4408.5	3065.0	1799.5	1521.5	1570.3	1534.3	1536.6	1516.8	1487.7	1473.8
5725.3	37.5°	4458.6	2878.9	1651.8	1493.6	1511.0	1509.8	1500.5	1466.8	1415.6	1371.4
6192.9	40°	4579.5	2824.3	1550.6	1480.8	1483.1	1497.0	1472.6	1407.5	1291.2	1219.0
6667.5	42.5°	4769.1	2916.2	1528.5	1449.4	1464.5	1478.4	1430.7	1279.5	1196.9	1153.9
7165.3	45°	5009.9	3076.7	1576.1	1404.0	1420.3	1444.7	1302.8	1230.7	1193.4	1194.6
7658.5	47.5°	5314.7	3245.3	1664.5	1364.4	1356.3	1370.3	1217.9	1173.7	1122.5	1135.3
8132.0	50°	5667.1	3416.3	1748.3	1310.9	1285.3	1240.0	1163.2	1121.3	1056.2	1025.9
8589.1	52.5°	6048.7	3581.5	1782.0	1245.8	1208.6	1156.2	1126.0	1074.8	995.7	945.7
9020.7	55°	6410.4	3731.6	1744.8	1167.9	1131.8	1091.1	1086.4	1055.0	970.1	900.3
9404.5	57.5°	6752.4	3857.2	1651.8	1088.8	1053.9	1029.4	1060.8	1045.7	938.7	849.1
9767.4	60°	7042.0	3943.3	1516.8	1008.5	984.1	971.3	1019.0	1014.3	894.5	794.5
10093.1	62.5°	7272.4	3977.0	1367.9	931.7	925.9	902.6	960.8	960.8	838.7	741.0
10379.3	65°	7452.7	3944.4	1216.7	856.1	867.8	832.9	889.9	882.9	779.3	693.3
10708.5	67.5°	7612.0	3837.4	1049.2	781.7	808.4	764.2	815.4	799.1	714.2	645.6
10993.4	70°	7683.0	3588.5	858.4	707.2	739.8	696.8	741.0	710.7	640.9	594.4
10680.5	72.5°	7113.0	2982.5	675.8	629.3	657.2	622.3	660.7	625.8	561.8	540.9
9223.0	75°	5884.7	2238.0	520.0	544.4	565.3	538.6	564.2	538.6	480.4	495.5
6812.9	77.5°	4273.6	1511.0	397.8	454.8	464.1	450.2	472.3	443.2	390.8	387.3
3395.4	80°	2125.2	885.2	311.7	359.4	355.9	346.6	372.2	358.3	314.1	332.7
916.6	82.5°	615.3	379.2	226.8	252.4	245.4	247.8	266.4	273.4	409.4	406.0
285.0	85°	193.1	148.9	136.1	140.7	133.8	137.3	157.0	311.7	288.5	168.7
88.4	87.5°	50.0	51.2	33.7	36.1	37.2	44.2	50.0	189.6	90.7	59.3
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>
3968.9
3779.3
3372.1
2810.3
2374.1
2171.7
2026.3
1976.3
1961.2
1904.2
1808.8
1730.8
1657.6
1577.3
1487.7
1386.5
1228.3
1153.9
1200.4
1167.9
1034.1
944.5
900.3
844.5
791.0
737.5
688.6
640.9
585.1
523.4
452.5
369.9
329.2
415.3
182.6
62.8
0.0

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