

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: P948922

Luminaire Tested: **GALN-SB3D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27256 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

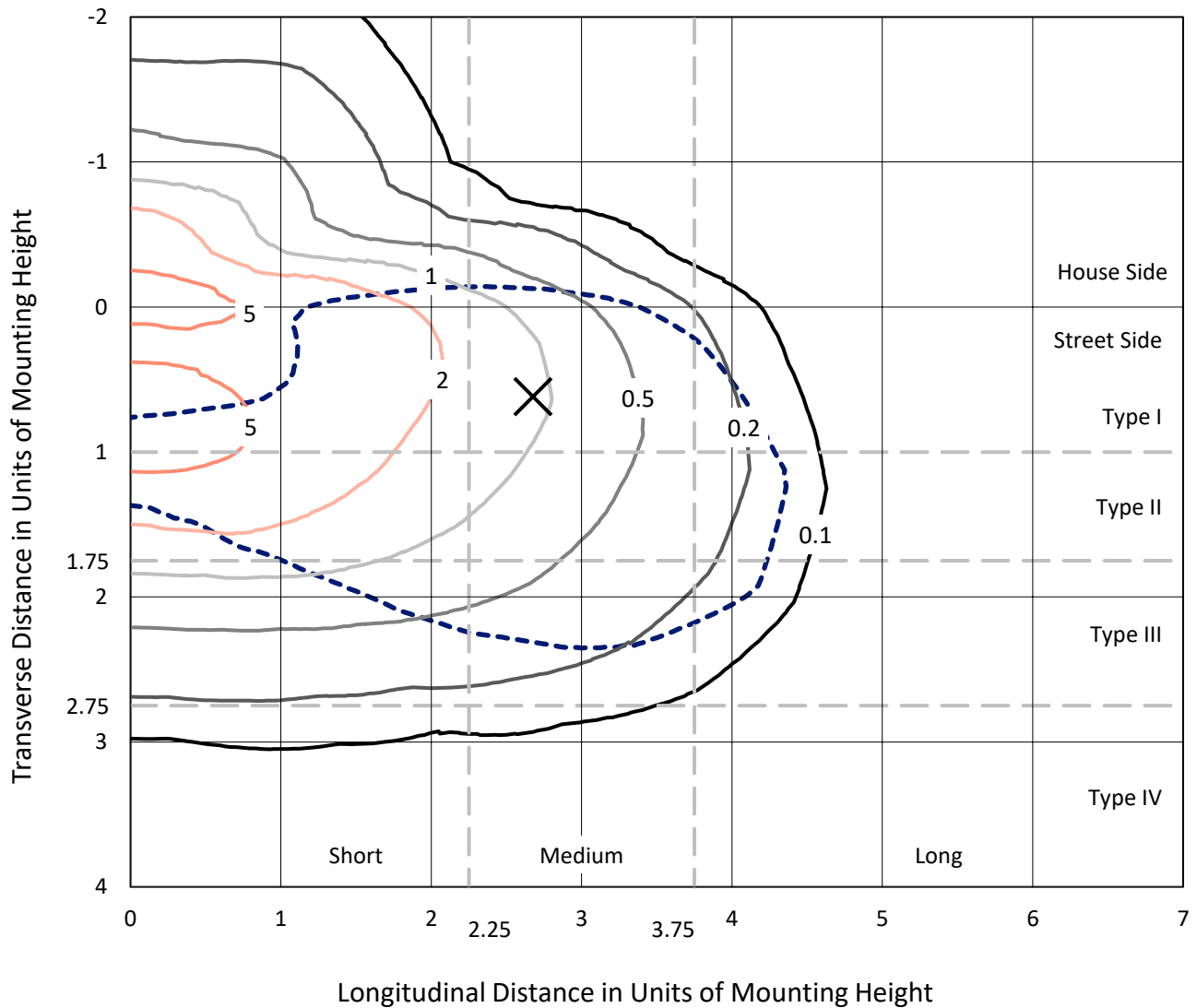
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

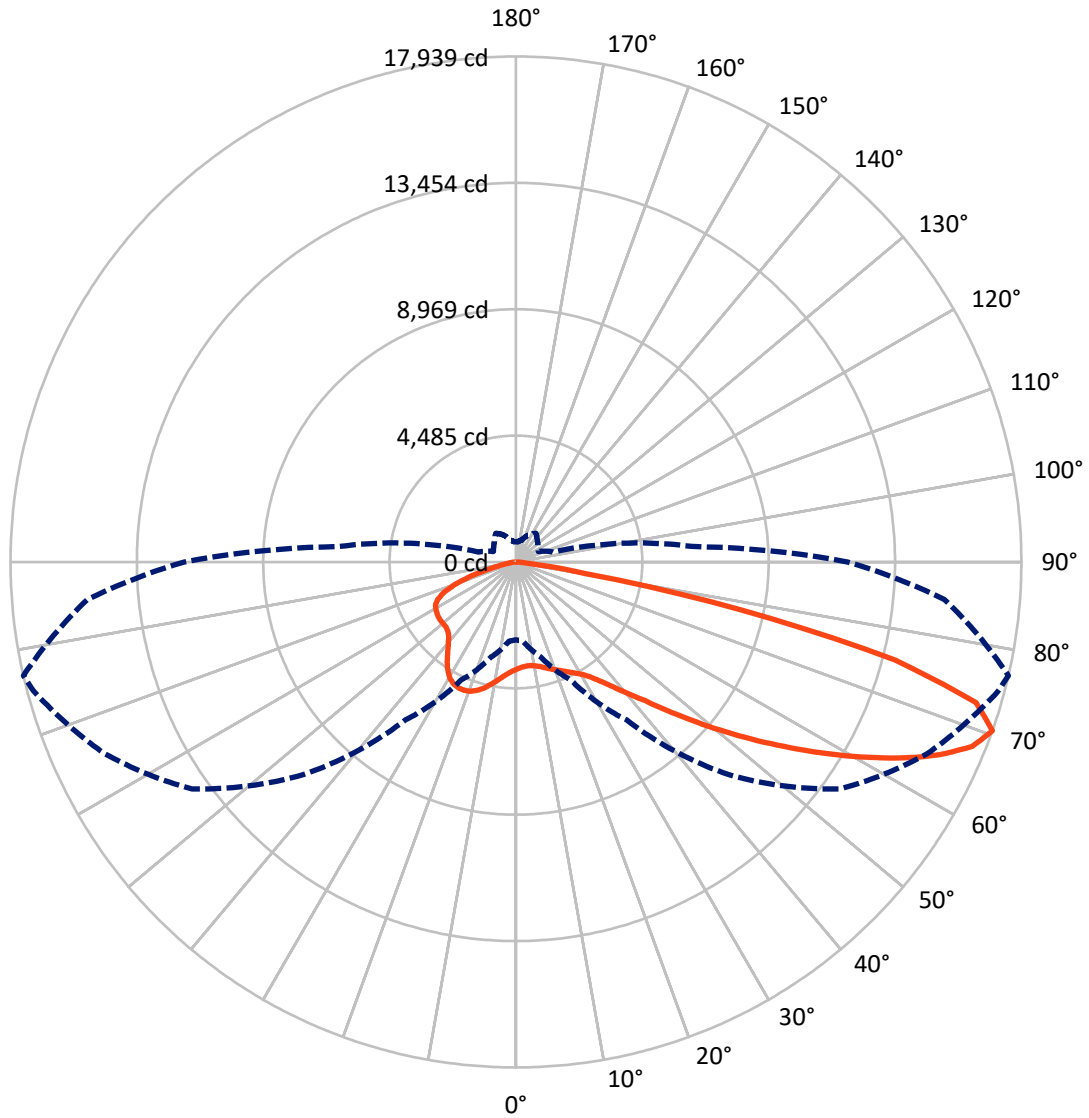
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5968.6	0.0	5968.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21287.4	0.0	21287.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	27256.0	0.0	27256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	1.3
10°-20°	1046.7	3.8
20°-30°	1789.9	6.6
30°-40°	2878.4	10.6
40°-50°	4493.9	16.5
50°-60°	6002.8	22.0
60°-70°	6398.0	23.5
70°-80°	3938.6	14.5
80°-90°	345.1	1.3
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°	27256.0	100.0
0°-180°	27256.0	100.0

Coefficient of Utilization



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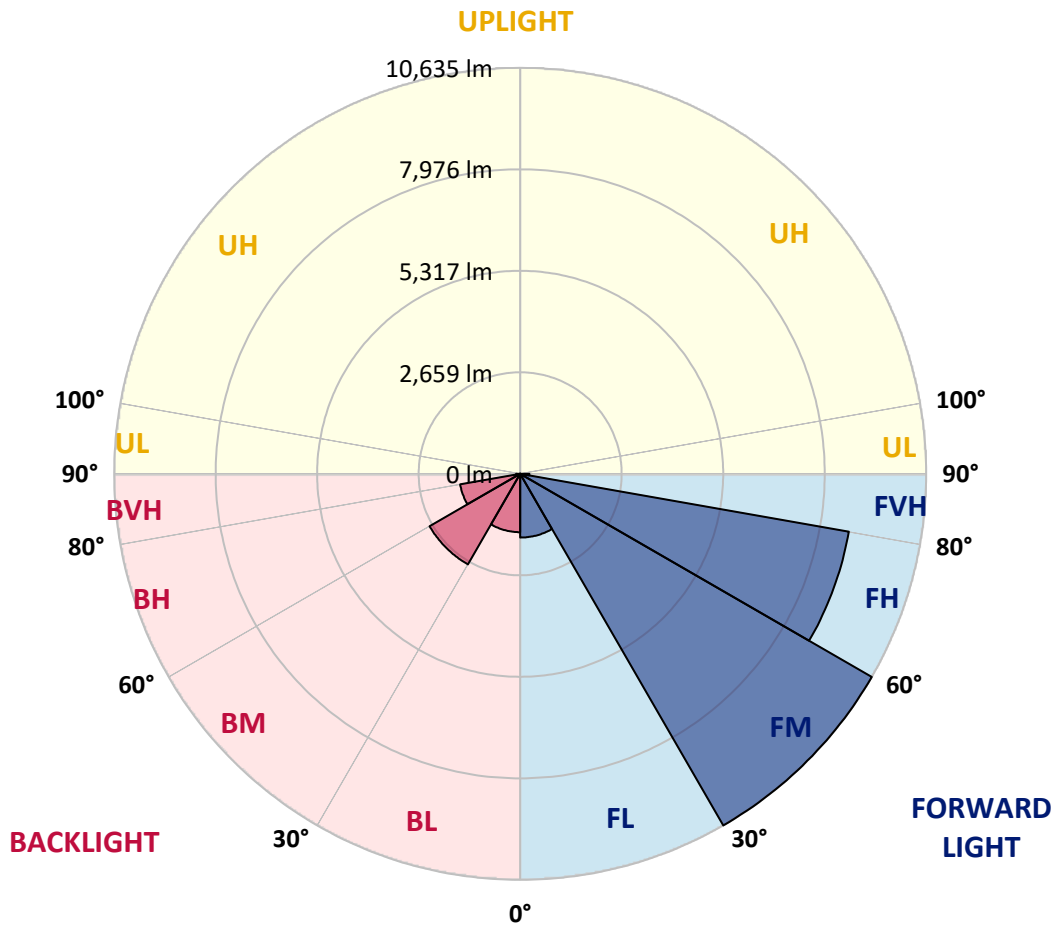
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.9	6.1			
FM (30°-60°)	10634.7	39.0			
FH (60°-80°)	8741.5	32.1			G4/12000
FVH (80°-90°)	241.3	0.9			G3/500
BL (0°-30°)	1529.4	5.6	B3/2500		
BM (30°-60°)	2740.3	10.1	B3/5000		
BH (60°-80°)	1595.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	103.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5
2.5°	3505.1	3503.7	3521.9	3527.5	3561.0	3584.7	3629.4	3676.8	3738.2	3745.2
5°	3302.7	3302.7	3323.7	3346.0	3389.3	3436.7	3505.1	3587.5	3693.6	3710.3
7.5°	3131.0	3142.2	3160.3	3203.6	3253.9	3322.3	3427.0	3544.2	3683.8	3710.3
10°	2992.8	3005.4	3027.7	3062.6	3138.0	3232.9	3369.7	3520.5	3707.5	3749.4
12.5°	2949.6	2962.1	2974.7	3001.2	3071.0	3182.7	3346.0	3531.7	3764.8	3806.6
15°	3050.1	3065.4	3055.6	3048.7	3085.0	3186.9	3357.2	3572.1	3836.0	3896.0
17.5°	3281.8	3287.4	3265.0	3199.4	3193.8	3248.3	3410.2	3628.0	3925.3	3990.9
20°	3655.9	3646.1	3600.1	3470.2	3396.3	3385.1	3500.9	3711.7	4017.4	4087.2
22.5°	4164.0	4152.8	4060.7	3855.5	3690.8	3581.9	3632.2	3820.6	4120.7	4198.9
25°	4797.7	4782.4	4647.0	4367.8	4112.4	3842.9	3810.8	3964.4	4247.8	4320.3
27.5°	5537.6	5525.0	5378.4	5009.9	4641.4	4200.3	4032.8	4133.3	4380.4	4462.7
30°	6333.2	6369.5	6109.9	5713.5	5247.2	4666.5	4331.5	4341.3	4552.1	4626.0
32.5°	7268.5	7331.3	7018.6	6516.1	5879.6	5173.2	4708.4	4631.6	4801.9	4863.4
35°	8195.4	8266.6	8006.9	7451.4	6718.5	5770.7	5102.1	4965.3	5134.2	5201.2
37.5°	8996.6	9091.6	8957.6	8474.6	7616.1	6491.0	5615.7	5357.5	5543.2	5626.9
40°	9629.0	9774.2	9764.4	9462.9	8674.2	7364.8	6267.6	5841.9	6051.3	6142.0
42.5°	10142.7	10268.3	10377.2	10361.8	9778.4	8357.3	7034.0	6471.4	6630.6	6735.3
45°	10497.2	10631.3	10865.8	11118.4	10840.6	9419.6	7912.0	7218.3	7363.4	7521.2
47.5°	10814.1	10966.3	11270.6	11671.2	11742.4	10486.1	8873.8	8087.9	8220.5	8383.8
50°	10842.0	10973.3	11445.1	12013.2	12383.1	11510.7	9906.8	9063.6	9187.9	9362.4
52.5°	10167.8	10374.4	11198.0	12003.4	12677.7	12367.8	10932.8	10078.5	10218.1	10427.5
55°	7892.5	8195.4	10473.5	11629.3	12573.0	12921.9	11908.5	11157.5	11336.2	11555.3
57.5°	6798.1	6930.7	8314.0	10948.1	12095.6	13065.7	12732.1	12247.7	12535.3	12775.4
60°	6109.9	6220.2	7038.2	9888.6	11467.4	12838.2	13368.6	13263.9	13760.9	14047.0
62.5°	5372.9	5477.6	6221.6	8256.8	10663.4	12459.9	13770.7	14202.0	15017.2	15329.9
65°	4641.4	4730.7	5444.1	6937.7	9641.6	12081.6	13978.6	15013.0	16180.0	16503.9
67.5°	3826.2	3900.2	4574.4	5853.1	8399.2	11563.7	14081.9	15651.0	17192.0	17469.8
70°	2761.1	2818.3	3514.9	4628.8	6840.0	10673.1	14040.1	16103.2	17716.9	17938.8
72.5°	1305.2	1356.8	2174.8	3005.4	4831.2	8939.4	13192.8	15744.5	17183.7	17073.4
75°	696.6	741.2	1249.3	1648.6	2551.7	6128.0	10796.0	13562.7	14429.5	13893.5
77.5°	471.8	506.7	773.3	989.7	1165.6	2909.1	6939.1	9390.3	9034.3	8149.3
80°	374.1	410.4	633.7	670.0	563.9	1051.1	2867.2	4346.9	3122.7	2497.3
82.5°	287.6	328.0	533.2	485.8	307.1	431.3	834.8	1375.0	799.9	608.6
85°	175.9	219.2	418.8	309.9	173.1	196.8	283.4	382.5	244.3	203.8
87.5°	89.3	125.6	212.2	113.1	78.2	46.1	75.4	75.4	64.2	55.8
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°
3802.5	0°	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5	3802.5
3782.9	2.5°	3816.4	3844.3	3891.8	3936.5	3971.4	4004.9	4038.4	4056.5	4062.1	4084.4
3803.9	5°	3861.1	3912.7	4004.9	4091.4	4145.9	4179.4	4203.1	4217.0	4219.8	4226.8
3861.1	7.5°	3943.4	4025.8	4154.2	4240.8	4281.3	4278.5	4268.7	4233.8	4219.8	4207.3
3944.8	10°	4059.3	4168.2	4325.9	4386.0	4360.8	4293.8	4207.3	4105.4	4057.9	4011.8
4059.3	12.5°	4203.1	4341.3	4496.2	4493.4	4369.2	4197.5	3996.5	3840.2	3741.0	3669.8
4200.3	15°	4377.6	4536.7	4655.4	4560.4	4288.2	3979.7	3685.2	3481.4	3392.1	3313.9
4342.7	17.5°	4557.6	4727.9	4782.4	4539.5	4084.4	3657.3	3323.7	3163.1	3075.2	3033.3
4496.2	20°	4733.5	4902.4	4857.8	4419.5	3774.5	3291.6	2994.2	2906.3	2888.1	2897.9
4645.6	22.5°	4919.2	5069.9	4873.1	4187.7	3379.5	2917.5	2754.1	2756.9	2797.4	2826.7
4801.9	25°	5109.0	5210.9	4832.6	3852.7	2955.1	2642.5	2602.0	2646.6	2726.2	2783.4
4977.8	27.5°	5291.9	5336.6	4744.7	3438.1	2590.8	2445.6	2452.6	2544.7	2664.8	2744.4
5191.4	30°	5498.5	5448.2	4575.8	2971.9	2338.2	2276.7	2335.4	2442.8	2562.9	2634.1
5460.8	32.5°	5731.6	5544.6	4307.8	2540.6	2159.5	2141.3	2237.6	2307.4	2360.5	2381.4
5818.2	35°	6022.0	5680.0	3964.4	2237.6	1998.9	2042.2	2134.3	2099.4	2078.5	2067.3
6298.3	37.5°	6398.9	5862.8	3562.4	2040.8	1869.1	1971.0	2008.7	1899.8	1817.5	1777.0
6880.4	40°	6852.5	6130.8	3175.7	1888.7	1786.8	1909.6	1844.0	1712.8	1608.1	1550.9
7535.1	42.5°	7356.4	6411.4	2850.4	1774.2	1740.7	1859.4	1722.6	1566.2	1397.3	1379.2
8315.4	45°	7885.5	6700.4	2628.5	1686.3	1718.4	1816.1	1652.8	1400.1	1280.1	1354.0
9098.5	47.5°	8414.5	6965.6	2494.5	1620.7	1707.2	1767.2	1591.3	1308.0	1222.8	1330.3
9937.5	50°	9003.6	7202.9	2434.5	1573.2	1694.6	1747.7	1499.2	1284.2	1162.8	1234.0
10805.7	52.5°	9588.5	7387.2	2389.8	1525.7	1676.5	1732.3	1454.5	1256.3	1090.2	1094.4
11679.6	55°	10172.0	7507.2	2340.9	1462.9	1636.0	1698.8	1450.4	1225.6	1035.8	1016.2
12603.7	57.5°	10794.6	7575.6	2280.9	1393.1	1566.2	1613.7	1446.2	1201.9	1019.0	986.9
13548.7	60°	11428.3	7676.1	2202.7	1308.0	1472.7	1511.8	1436.4	1193.5	1009.2	954.8
14439.3	62.5°	11996.5	7711.0	2109.2	1227.0	1352.6	1411.3	1415.5	1186.5	982.7	889.2
15179.1	65°	12369.2	7560.3	1945.9	1134.9	1222.8	1308.0	1375.0	1162.8	935.3	841.7
15544.9	67.5°	12353.8	7130.3	1690.4	1016.2	1097.2	1193.5	1316.3	1122.3	878.0	783.1
15268.5	70°	11778.7	6281.6	1366.6	878.0	959.0	1070.7	1241.0	1062.3	809.6	718.9
13576.6	72.5°	10102.2	4916.4	992.5	716.1	798.5	943.6	1143.3	989.7	739.8	661.7
10033.8	75°	7216.9	3111.5	672.8	550.0	621.2	799.9	1021.8	904.6	675.6	664.5
5025.3	77.5°	3686.6	1486.6	445.3	402.0	432.7	631.0	858.5	808.2	685.4	548.6
1429.4	80°	1199.1	548.6	280.6	273.6	287.6	420.2	664.5	663.1	519.3	372.7
346.2	82.5°	382.5	235.9	182.9	175.9	168.9	263.8	463.4	524.9	350.4	235.9
124.2	85°	152.2	141.0	107.5	99.1	71.2	124.2	242.9	349.0	261.0	170.3
32.1	87.5°	55.8	55.8	29.3	20.9	15.4	41.9	65.6	104.7	149.4	87.9
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>
3802.5
4097.0
4238.0
4210.1
3997.9
3653.1
3305.5
3045.9
2893.7
2833.7
2798.8
2763.9
2650.8
2392.6
2078.5
1786.8
1555.0
1397.3
1393.1
1380.6
1287.0
1123.7
1030.2
991.1
959.0
889.2
841.7
787.3
727.3
657.5
626.8
488.6
329.4
234.5
174.5
86.5
0.0

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