

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: P955453

Luminaire Tested: **GALN-SB8B-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955453
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-SB8B-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28453 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

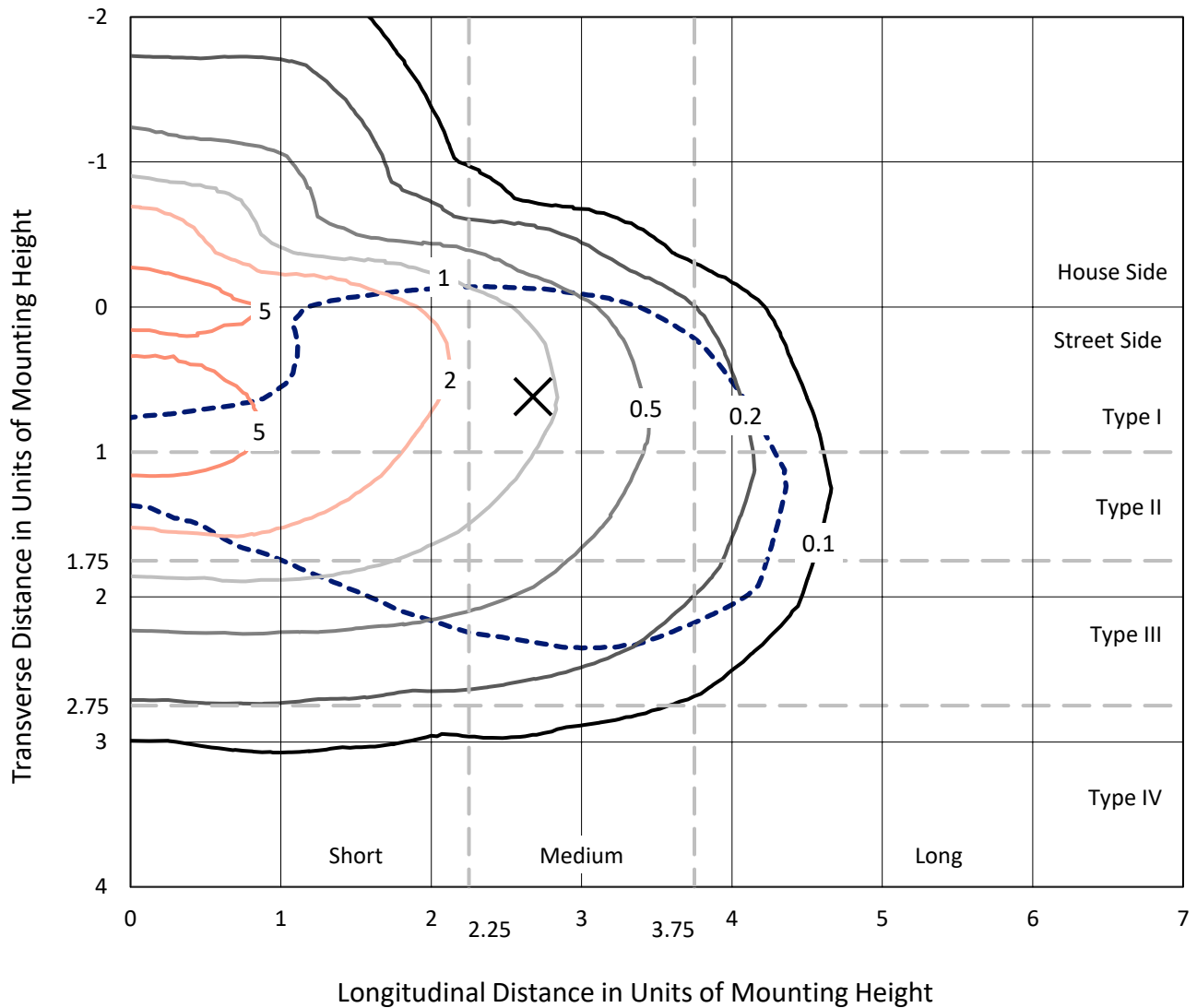
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

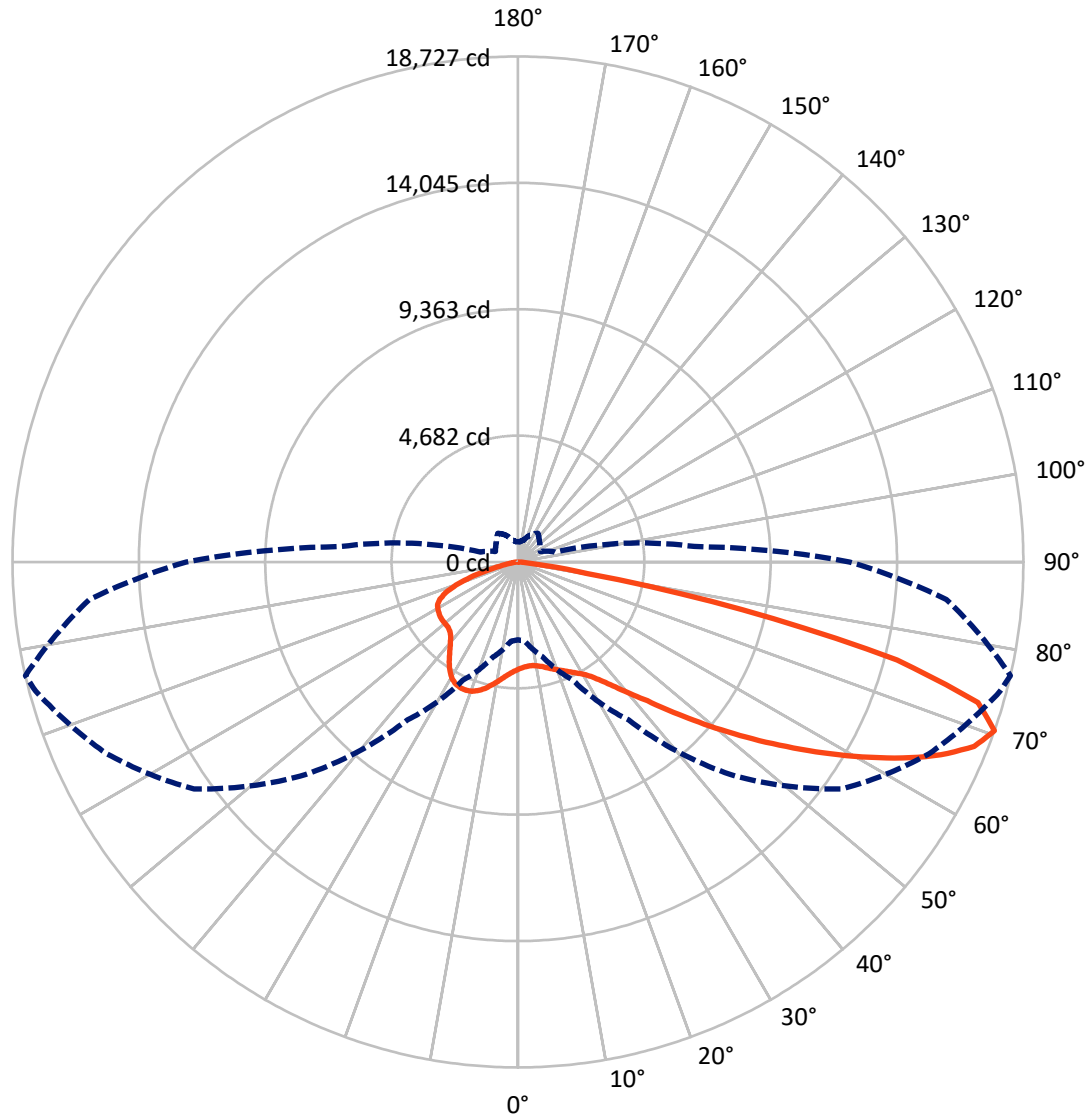
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6230.8	0.0	6230.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22222.2	0.0	22222.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	28453.0	0.0	28453.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.6	1.3
10°-20°	1092.6	3.8
20°-30°	1868.5	6.6
30°-40°	3004.8	10.6
40°-50°	4691.2	16.5
50°-60°	6266.4	22.0
60°-70°	6679.0	23.5
70°-80°	4111.6	14.5
80°-90°	360.3	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°	28453.0	100.0
0°-180°	28453.0	100.0



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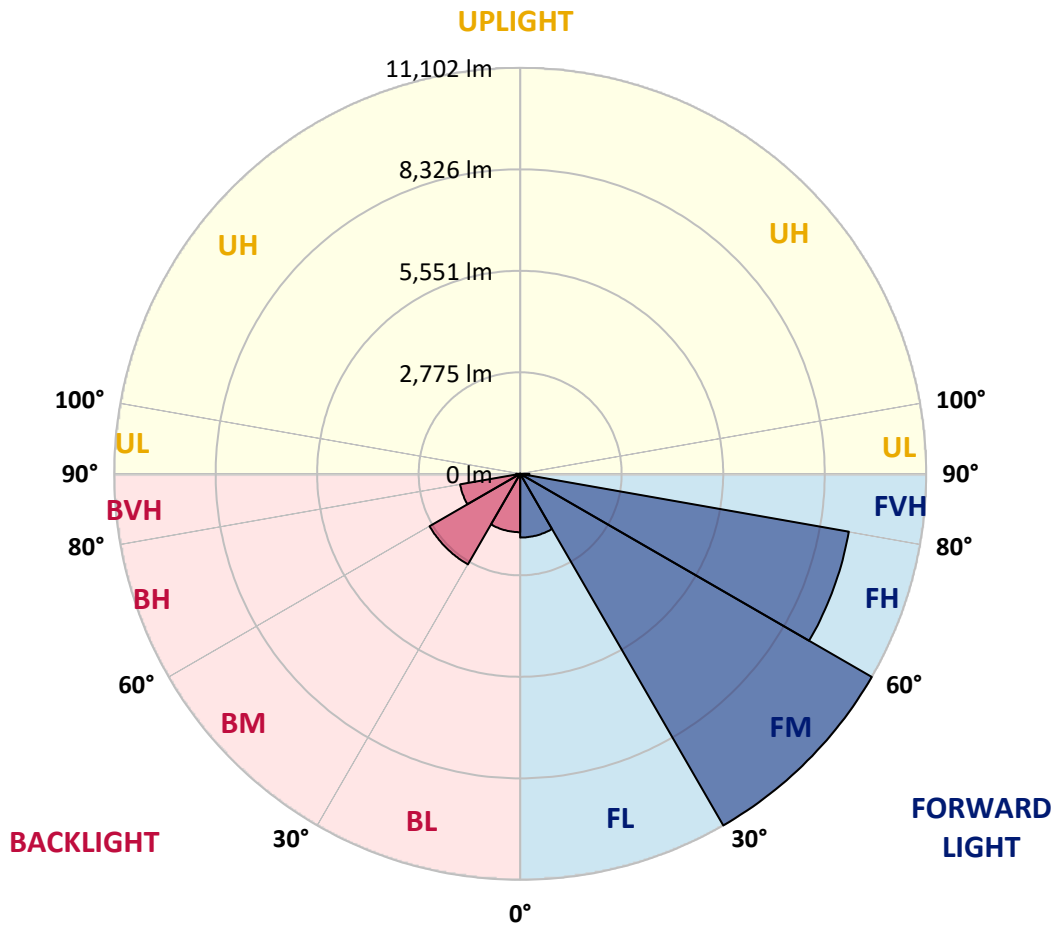
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.2	6.1			
FM (30°-60°)	11101.7	39.0			
FH (60°-80°)	9125.4	32.1			G4/12000
FVH (80°-90°)	251.9	0.9			G3/500
BL (0°-30°)	1596.5	5.6	B3/2500		
BM (30°-60°)	2860.7	10.1	B3/5000		
BH (60°-80°)	1665.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	108.4	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°	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5
2.5°	3659.1	3657.6	3676.6	3682.4	3717.4	3742.1	3788.8	3838.3	3902.4	3909.7
5°	3447.8	3447.8	3469.6	3492.9	3538.1	3587.7	3659.1	3745.0	3855.8	3873.3
7.5°	3268.5	3280.2	3299.1	3344.3	3396.8	3468.2	3577.5	3699.9	3845.6	3873.3
10°	3124.3	3137.4	3160.7	3197.1	3275.8	3374.9	3517.7	3675.1	3870.4	3914.1
12.5°	3079.1	3092.2	3105.3	3133.0	3205.9	3322.4	3492.9	3686.8	3930.1	3973.8
15°	3184.0	3200.0	3189.8	3182.6	3220.4	3326.8	3504.6	3729.0	4004.4	4067.1
17.5°	3425.9	3431.7	3408.4	3339.9	3334.1	3390.9	3560.0	3787.3	4097.7	4166.2
20°	3816.4	3806.2	3758.2	3622.6	3545.4	3533.7	3654.7	3874.7	4193.9	4266.7
22.5°	4346.9	4335.2	4239.0	4024.8	3852.9	3739.2	3791.7	3988.4	4301.7	4383.3
25°	5008.4	4992.4	4851.1	4559.6	4293.0	4011.7	3978.2	4138.5	4434.3	4510.1
27.5°	5780.8	5767.7	5614.6	5229.9	4845.2	4384.8	4209.9	4314.8	4572.7	4658.7
30°	6611.4	6649.3	6378.2	5964.4	5477.7	4871.5	4521.7	4531.9	4752.0	4829.2
32.5°	7587.7	7653.3	7326.9	6802.3	6137.8	5400.4	4915.2	4835.0	5012.8	5076.9
35°	8555.3	8629.6	8358.6	7778.6	7013.6	6024.1	5326.1	5183.3	5359.6	5429.6
37.5°	9391.7	9490.8	9350.9	8846.8	7950.6	6776.0	5862.4	5592.8	5786.6	5874.0
40°	10051.9	10203.4	10193.2	9878.5	9055.1	7688.3	6542.9	6098.4	6317.0	6411.7
42.5°	10588.1	10719.3	10832.9	10816.9	10207.8	8724.3	7342.9	6755.6	6921.8	7031.1
45°	10958.3	11098.1	11343.0	11606.7	11316.7	9833.3	8259.5	7535.3	7686.8	7851.5
47.5°	11289.0	11447.9	11765.6	12183.8	12258.1	10946.6	9263.5	8443.1	8581.5	8752.0
50°	11318.2	11455.2	11947.7	12540.8	12927.0	12016.2	10341.9	9461.7	9591.4	9773.5
52.5°	10614.4	10830.0	11689.8	12530.6	13234.4	12910.9	11412.9	10521.1	10666.8	10885.4
55°	8239.1	8555.3	10933.5	12140.1	13125.1	13489.4	12431.5	11647.5	11834.0	12062.8
57.5°	7096.6	7235.1	8679.2	11428.9	12626.8	13639.5	13291.3	12785.6	13085.8	13336.4
60°	6378.2	6493.3	7347.3	10322.9	11971.0	13402.0	13955.7	13846.5	14365.2	14664.0
62.5°	5608.8	5718.1	6494.8	8619.4	11131.7	13007.1	14375.4	14825.7	15676.7	16003.1
65°	4845.2	4938.5	5683.1	7242.4	10065.0	12612.2	14592.5	15672.3	16890.6	17228.7
67.5°	3994.2	4071.5	4775.3	6110.1	8768.1	12071.6	14700.4	16338.3	17947.1	18237.0
70°	2882.4	2942.1	3669.3	4832.1	7140.4	11141.9	14656.7	16810.4	18495.0	18726.7
72.5°	1362.5	1416.4	2270.3	3137.4	5043.4	9332.0	13772.1	16435.9	17938.3	17823.2
75°	727.2	773.8	1304.2	1721.0	2663.8	6397.2	11270.1	14158.3	15063.2	14503.7
77.5°	492.5	529.0	807.3	1033.2	1216.8	3036.8	7243.8	9802.7	9431.1	8507.2
80°	390.5	428.4	661.6	699.5	588.7	1097.3	2993.1	4537.8	3259.8	2607.0
82.5°	300.2	342.4	556.7	507.1	320.6	450.3	871.4	1435.4	835.0	635.3
85°	183.6	228.8	437.2	323.5	180.7	205.5	295.8	399.3	255.0	212.8
87.5°	93.3	131.1	221.5	118.0	81.6	48.1	78.7	78.7	67.0	58.3
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°
3969.5	0°	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5	3969.5
3949.1	2.5°	3984.0	4013.2	4062.7	4109.3	4145.8	4180.7	4215.7	4234.7	4240.5	4263.8
3970.9	5°	4030.7	4084.6	4180.7	4271.1	4327.9	4362.9	4387.7	4402.2	4405.2	4412.4
4030.7	7.5°	4116.6	4202.6	4336.7	4427.0	4469.3	4466.4	4456.2	4419.7	4405.2	4392.0
4118.1	10°	4237.6	4351.2	4515.9	4578.6	4552.3	4482.4	4392.0	4285.7	4236.1	4188.0
4237.6	12.5°	4387.7	4531.9	4693.7	4690.8	4561.1	4381.8	4172.0	4008.8	3905.3	3831.0
4384.8	15°	4569.8	4735.9	4859.8	4760.7	4476.6	4154.5	3847.0	3634.3	3541.0	3459.4
4533.4	17.5°	4757.8	4935.6	4992.4	4738.9	4263.8	3817.9	3469.6	3302.0	3210.2	3166.5
4693.7	20°	4941.4	5117.7	5071.1	4613.5	3940.3	3436.1	3125.7	3033.9	3015.0	3025.2
4849.6	22.5°	5135.2	5292.6	5087.1	4371.6	3527.9	3045.6	2875.1	2878.0	2920.3	2950.9
5012.8	25°	5333.4	5439.8	5044.9	4021.9	3084.9	2758.5	2716.2	2762.9	2845.9	2905.7
5196.4	27.5°	5524.3	5570.9	4953.1	3589.1	2704.6	2553.0	2560.3	2656.5	2781.8	2864.9
5419.4	30°	5740.0	5687.5	4776.8	3102.4	2440.8	2376.7	2437.9	2550.1	2675.4	2749.8
5700.6	32.5°	5983.3	5788.1	4497.0	2652.1	2254.3	2235.4	2335.9	2408.8	2464.2	2486.0
6073.7	35°	6286.4	5929.4	4138.5	2335.9	2086.7	2131.9	2228.1	2191.7	2169.8	2158.1
6575.0	37.5°	6679.9	6120.3	3718.8	2130.4	1951.2	2057.6	2096.9	1983.3	1897.3	1855.0
7182.6	40°	7153.5	6400.1	3315.2	1971.6	1865.2	1993.5	1925.0	1788.0	1678.7	1619.0
7866.0	42.5°	7679.5	6693.0	2975.6	1852.1	1817.1	1941.0	1798.2	1635.0	1458.7	1439.7
8680.6	45°	8231.8	6994.6	2743.9	1760.3	1793.8	1895.8	1725.3	1461.6	1336.3	1413.5
9498.1	47.5°	8784.1	7271.5	2604.0	1691.8	1782.2	1844.8	1661.2	1365.4	1276.5	1388.7
10373.9	50°	9399.0	7519.2	2541.4	1642.3	1769.1	1824.4	1565.0	1340.6	1213.9	1288.2
11280.3	52.5°	10009.6	7711.6	2494.8	1592.7	1750.1	1808.4	1518.4	1311.5	1138.1	1142.5
12192.5	55°	10618.7	7836.9	2443.7	1527.2	1707.9	1773.4	1514.0	1279.4	1081.3	1060.9
13157.2	57.5°	11268.6	7908.3	2381.1	1454.3	1635.0	1684.5	1509.7	1254.7	1063.8	1030.3
14143.7	60°	11930.2	8013.2	2299.5	1365.4	1537.4	1578.2	1499.5	1245.9	1053.6	996.7
15073.4	62.5°	12523.3	8049.7	2201.9	1280.9	1412.0	1473.2	1477.6	1238.6	1025.9	928.2
15845.8	65°	12912.4	7892.3	2031.4	1184.7	1276.5	1365.4	1435.4	1213.9	976.3	878.7
16227.5	67.5°	12896.4	7443.5	1764.7	1060.9	1145.4	1245.9	1374.2	1171.6	916.6	817.5
15939.0	70°	12296.0	6557.5	1426.6	916.6	1001.1	1117.7	1295.5	1108.9	845.2	750.5
14172.9	72.5°	10545.9	5132.3	1036.1	747.6	833.5	985.1	1193.5	1033.2	772.3	690.7
10474.5	75°	7533.8	3248.1	702.4	574.1	648.5	835.0	1066.7	944.3	705.3	693.6
5246.0	77.5°	3848.5	1551.9	464.9	419.7	451.7	658.7	896.2	843.7	715.5	572.7
1492.2	80°	1251.7	572.7	292.9	285.6	300.2	438.6	693.6	692.2	542.1	389.1
361.4	82.5°	399.3	246.3	190.9	183.6	176.3	275.4	483.8	547.9	365.8	246.3
129.7	85°	158.8	147.2	112.2	103.5	74.3	129.7	253.6	364.3	272.5	177.8
33.5	87.5°	58.3	58.3	30.6	21.9	16.0	43.7	68.5	109.3	155.9	91.8
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>
3969.5
4276.9
4424.1
4395.0
4173.5
3813.5
3450.7
3179.6
3020.8
2958.1
2921.7
2885.3
2767.3
2497.7
2169.8
1865.2
1623.3
1458.7
1454.3
1441.2
1343.6
1173.1
1075.4
1034.6
1001.1
928.2
878.7
821.9
759.2
686.3
654.3
510.0
343.9
244.8
182.2
90.3
0.0

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