

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: P941427

Luminaire Tested: **GALN-SB4D-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28390 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

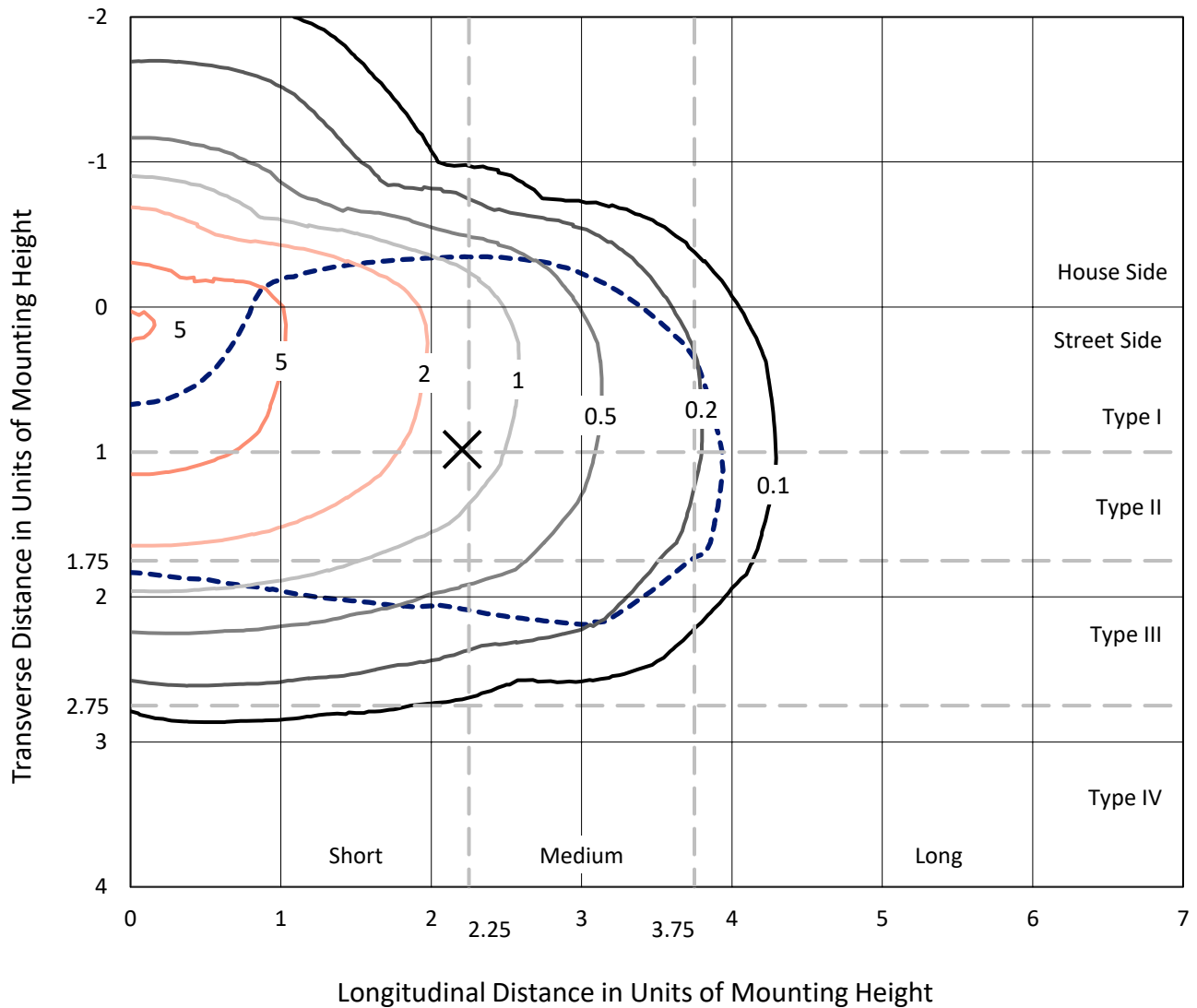
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

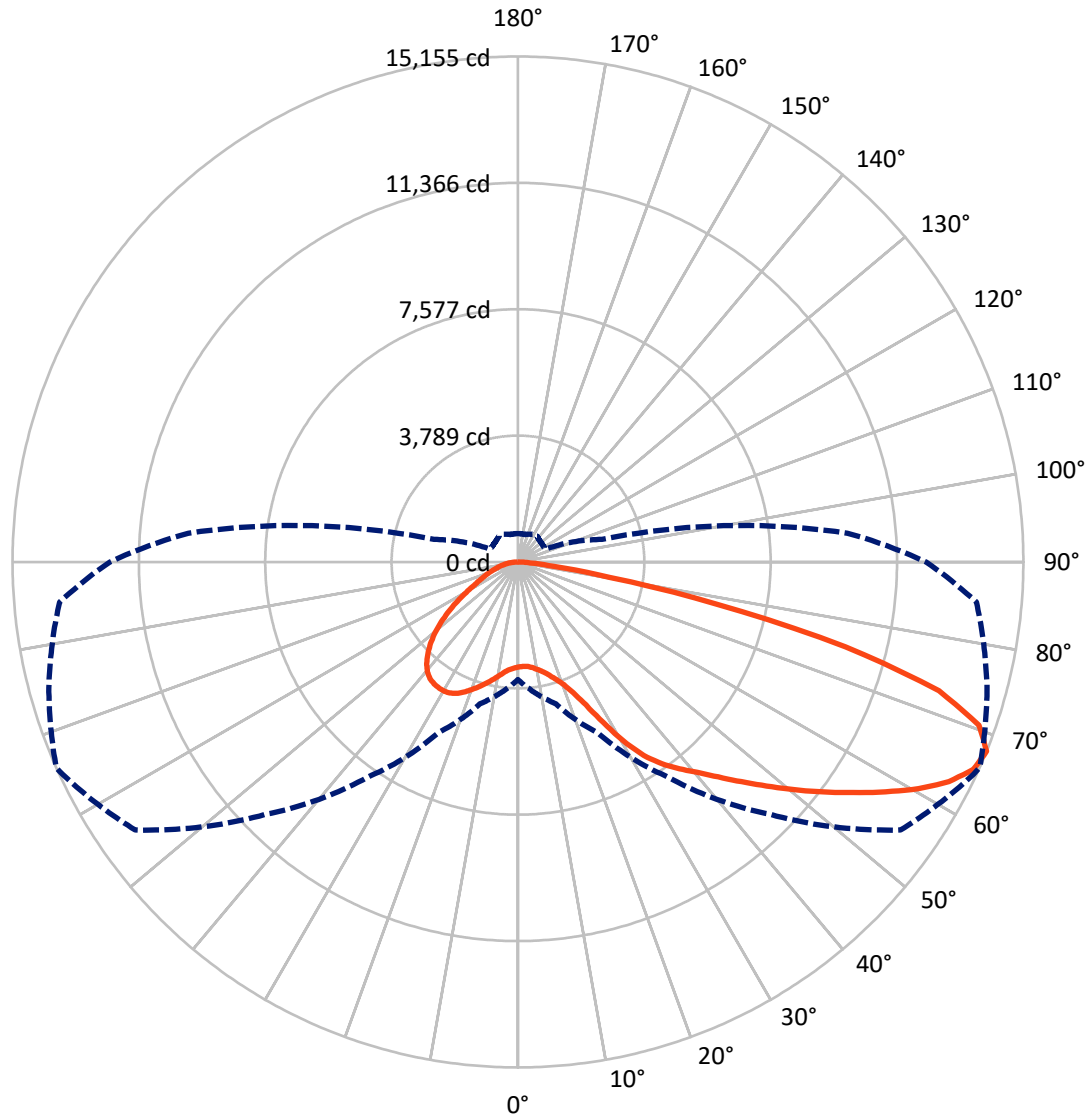
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7059.1	0.0	7059.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21330.9	0.0	21330.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	28390.0	0.0	28390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.1
10°-20°	1031.4	3.6
20°-30°	1988.1	7.0
30°-40°	3485.8	12.3
40°-50°	5182.2	18.3
50°-60°	6569.0	23.1
60°-70°	6427.6	22.6
70°-80°	3066.0	10.8
80°-90°	327.7	1.2
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°	28390.0	100.0
0°-180°	28390.0	100.0

Coefficient of Utilization



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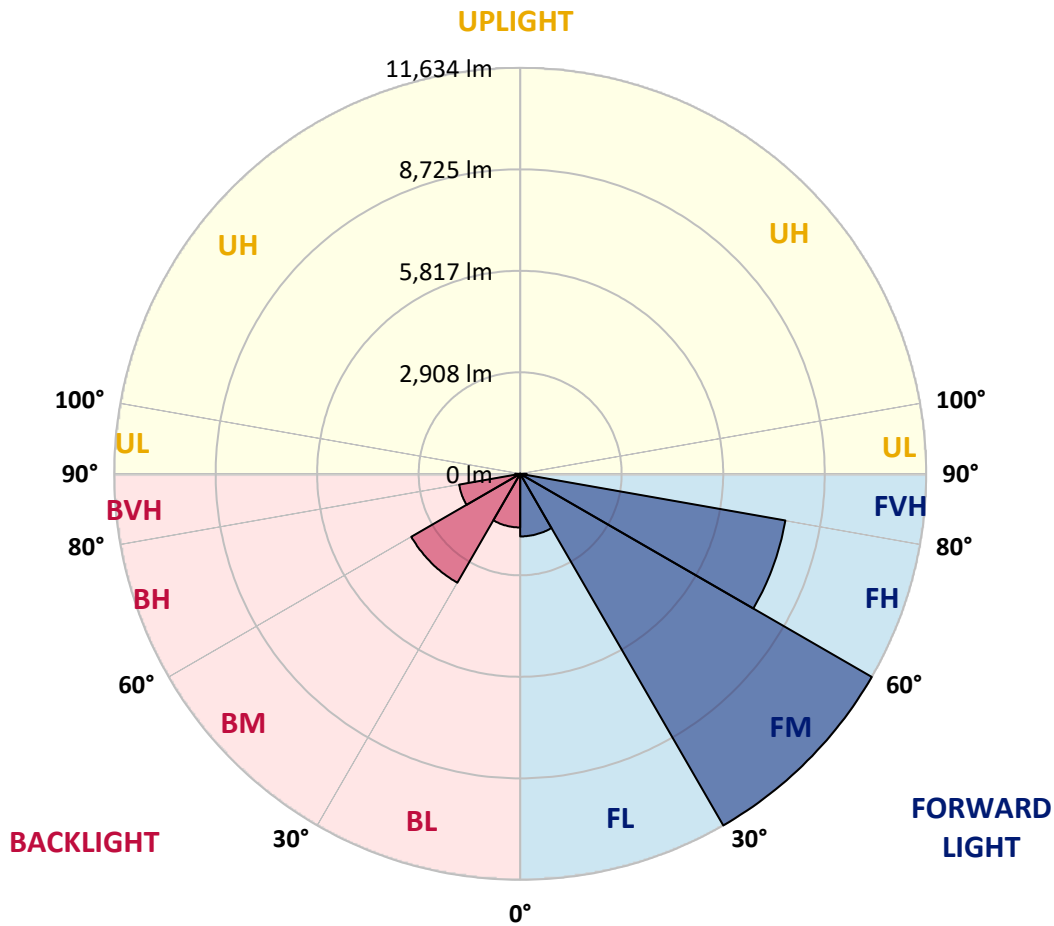
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.0	6.3			
FM (30°-60°)	11634.0	41.0			
FH (60°-80°)	7717.2	27.2			G4/12000
FVH (80°-90°)	185.8	0.7			G2/225
BL (0°-30°)	1537.7	5.4	B3/2500		
BM (30°-60°)	3603.0	12.7	B3/5000		
BH (60°-80°)	1776.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	141.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8
2.5°	3116.0	3133.9	3129.4	3122.0	3120.5	3123.5	3127.9	3132.4	3130.9	3138.4
5°	3107.1	3125.0	3123.5	3123.5	3129.4	3141.4	3148.8	3156.3	3148.8	3157.8
7.5°	3113.0	3126.5	3132.4	3138.4	3153.3	3175.7	3193.6	3210.0	3201.0	3211.5
10°	3189.1	3199.5	3205.5	3205.5	3215.9	3241.3	3259.2	3289.0	3281.6	3298.0
12.5°	3327.8	3338.3	3338.3	3332.3	3339.8	3356.2	3362.1	3394.9	3381.5	3408.4
15°	3497.9	3518.7	3502.3	3491.9	3494.9	3511.3	3509.8	3535.2	3521.7	3544.1
17.5°	3685.8	3712.7	3685.8	3684.3	3678.4	3696.3	3697.7	3720.1	3696.3	3712.7
20°	3908.1	3945.4	3923.0	3930.4	3917.0	3924.5	3931.9	3964.7	3927.5	3939.4
22.5°	4221.3	4266.1	4242.2	4270.5	4261.6	4255.6	4254.1	4312.3	4254.1	4258.6
25°	4677.7	4731.4	4689.7	4728.5	4728.5	4747.9	4770.2	4844.8	4747.9	4719.5
27.5°	5352.0	5405.7	5323.6	5347.5	5340.0	5387.8	5363.9	5548.9	5444.4	5398.2
30°	6163.4	6258.9	6103.7	6097.8	6090.3	6166.4	6200.7	6323.0	6217.1	6170.9
32.5°	7040.5	7140.4	6955.5	6901.8	6873.4	6919.7	6891.3	6989.8	6916.7	6845.1
35°	7968.3	8066.7	7890.7	7786.3	7672.9	7576.0	7474.5	7499.9	7431.3	7322.4
37.5°	8845.4	9025.8	8839.4	8727.5	8518.7	8329.2	8045.8	7928.0	7863.9	7763.9
40°	9738.8	9841.8	9700.1	9604.6	9377.9	9081.0	8627.6	8378.5	8292.0	8195.0
42.5°	10396.6	10495.1	10419.0	10353.4	10175.9	9831.3	9245.1	8933.4	8808.1	8699.2
45°	10918.7	10991.8	10944.1	10967.9	10891.9	10557.7	9885.0	9528.5	9398.7	9266.0
47.5°	11129.0	11206.6	11282.7	11424.4	11554.1	11308.0	10572.7	10172.9	10035.7	9899.9
50°	11105.2	11184.2	11405.0	11706.3	12109.0	12027.0	11297.6	10859.1	10732.3	10577.1
52.5°	10914.2	11003.7	11287.1	11788.3	12429.7	12565.5	12035.9	11567.6	11448.2	11263.3
55°	10413.1	10466.8	10891.9	11601.9	12505.8	12941.4	12759.4	12322.3	12203.0	11945.0
57.5°	9483.8	9561.3	10180.4	11099.2	12314.9	13196.4	13394.8	13115.9	13001.0	12629.6
60°	8271.1	8394.9	9103.4	10254.9	11828.6	13194.9	13972.1	13896.0	13800.5	13303.8
62.5°	6898.8	7042.0	7723.6	9061.6	10978.4	12820.5	14333.1	14549.3	14500.1	13925.8
65°	5298.3	5396.7	6075.4	7517.8	9655.3	12016.6	14374.8	14995.3	15004.3	14398.7
67.5°	3527.7	3811.1	4400.3	5641.3	7883.3	10702.4	14007.9	15068.4	15154.9	14561.3
70°	1721.3	2094.2	2671.5	3666.4	5641.3	8687.2	13048.8	14468.8	14661.2	14086.9
72.5°	714.5	835.3	1150.0	1809.3	3238.3	5862.1	11121.6	12842.9	13199.4	12481.9
75°	481.8	522.1	657.8	927.8	1475.2	2890.8	8020.5	9576.3	10150.5	9427.1
77.5°	371.4	396.8	478.8	648.9	877.1	1093.4	4292.9	5771.1	6067.9	5617.5
80°	292.4	311.8	358.0	472.8	622.0	584.7	1463.3	2614.8	2786.4	2337.4
82.5°	253.6	261.0	256.6	320.7	413.2	341.6	480.3	965.1	1065.0	772.7
85°	183.5	204.4	213.3	198.4	219.3	173.0	196.9	341.6	375.9	335.6
87.5°	74.6	110.4	135.7	128.3	80.5	49.2	61.2	99.9	114.9	125.3
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°
3148.8	0°	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8	3148.8
3150.3	2.5°	3151.8	3162.3	3169.7	3178.7	3184.6	3193.6	3211.5	3221.9	3223.4	3230.9
3174.2	5°	3180.2	3195.1	3211.5	3235.3	3262.2	3284.6	3318.9	3342.7	3351.7	3359.1
3232.4	7.5°	3241.3	3262.2	3292.0	3333.8	3372.6	3402.4	3444.2	3472.5	3500.9	3511.3
3324.8	10°	3332.3	3362.1	3405.4	3462.1	3503.8	3542.6	3585.9	3609.7	3638.1	3650.0
3435.2	12.5°	3445.7	3477.0	3533.7	3612.7	3651.5	3678.4	3693.3	3687.3	3693.3	3703.7
3568.0	15°	3575.4	3609.7	3673.9	3758.9	3785.8	3761.9	3729.1	3699.2	3694.8	3697.7
3729.1	17.5°	3729.1	3754.4	3829.0	3900.6	3881.2	3782.8	3711.2	3663.4	3639.6	3632.1
3934.9	20°	3943.9	3943.9	4005.0	4049.8	3920.0	3752.9	3641.1	3563.5	3514.3	3493.4
4215.3	22.5°	4204.9	4181.0	4219.8	4188.5	3912.5	3669.4	3514.3	3380.0	3305.4	3275.6
4607.6	25°	4536.0	4507.7	4497.3	4303.3	3858.8	3536.6	3284.6	3122.0	3056.3	3039.9
5173.0	27.5°	5035.7	4964.1	4828.4	4366.0	3760.4	3327.8	3016.1	2865.4	2828.1	2829.6
5899.4	30°	5701.0	5557.8	5225.2	4376.4	3599.3	3032.5	2741.6	2634.2	2616.3	2623.8
6509.5	32.5°	6317.0	6181.3	5630.9	4328.7	3351.7	2743.1	2495.5	2423.9	2397.0	2406.0
6974.9	35°	6800.3	6763.0	6006.8	4261.6	3047.4	2471.6	2274.7	2213.6	2161.4	2149.4
7413.4	37.5°	7256.8	7241.9	6288.7	4167.6	2746.1	2279.2	2097.2	2016.7	1940.6	1898.8
7898.2	40°	7758.0	7743.0	6473.7	4022.9	2479.1	2112.1	1937.6	1831.7	1737.7	1661.7
8447.1	42.5°	8321.8	8233.8	6561.7	3815.6	2252.4	1970.4	1807.9	1664.7	1540.9	1470.7
9067.6	45°	8937.8	8739.4	6560.2	3551.6	2061.4	1840.7	1669.1	1466.3	1351.4	1285.8
9704.5	47.5°	9591.2	9222.7	6479.6	3259.2	1876.5	1697.5	1454.3	1299.2	1223.1	1182.9
10396.6	50°	10265.4	9674.7	6342.4	2923.6	1687.0	1534.9	1320.1	1214.2	1156.0	1118.7
11082.8	52.5°	10899.3	10084.9	6176.8	2543.2	1494.6	1376.8	1260.4	1178.4	1117.2	1075.5
11748.1	55°	11488.5	10438.4	5942.6	2153.9	1338.0	1270.9	1232.1	1163.5	1093.4	1044.1
12423.8	57.5°	12012.1	10668.1	5538.4	1788.5	1226.1	1197.8	1202.3	1138.1	1057.6	1015.8
13089.0	60°	12447.6	10836.7	4940.3	1449.9	1135.1	1126.2	1156.0	1090.4	996.4	948.7
13651.4	62.5°	12708.7	10833.7	4206.4	1187.3	1057.6	1060.5	1094.9	1030.7	935.3	890.5
13945.2	65°	12686.3	10568.2	3400.9	1015.8	983.0	986.0	1030.7	965.1	884.5	857.7
13797.6	67.5°	12237.3	9920.8	2608.9	903.9	900.9	914.4	966.6	920.3	853.2	850.2
12917.5	70°	11021.6	8576.9	1879.5	814.4	815.9	835.3	903.9	892.0	836.8	842.8
10860.5	72.5°	8837.9	6539.3	1261.9	720.5	721.9	753.3	844.3	869.6	820.4	899.5
7705.7	75°	5886.0	4078.1	811.4	620.5	622.0	662.3	792.1	826.4	775.6	896.5
4009.5	77.5°	2828.1	1833.2	587.7	522.1	522.1	559.4	684.7	739.8	660.8	696.6
1288.8	80°	977.0	689.1	462.4	420.6	411.7	437.0	577.3	641.4	569.8	525.1
420.6	82.5°	384.8	358.0	371.4	326.7	296.8	313.2	449.0	529.5	419.1	378.9
237.2	85°	220.8	232.7	262.5	216.3	171.5	192.4	329.6	380.4	316.2	278.9
77.6	87.5°	59.7	82.0	120.8	111.9	77.6	82.0	156.6	210.3	182.0	140.2
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>
3148.8
3229.4
3357.7
3512.8
3656.0
3706.7
3708.2
3642.6
3488.9
3271.1
3042.9
2834.1
2649.1
2417.9
2158.4
1900.3
1669.1
1475.2
1282.8
1173.9
1105.3
1057.6
1024.7
988.9
927.8
877.1
856.2
854.7
841.3
911.4
903.9
638.4
492.2
377.4
284.9
144.7
0.0

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