

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: P956230

Luminaire Tested: **GALN-SB8D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956230
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-SB8D-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61213 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

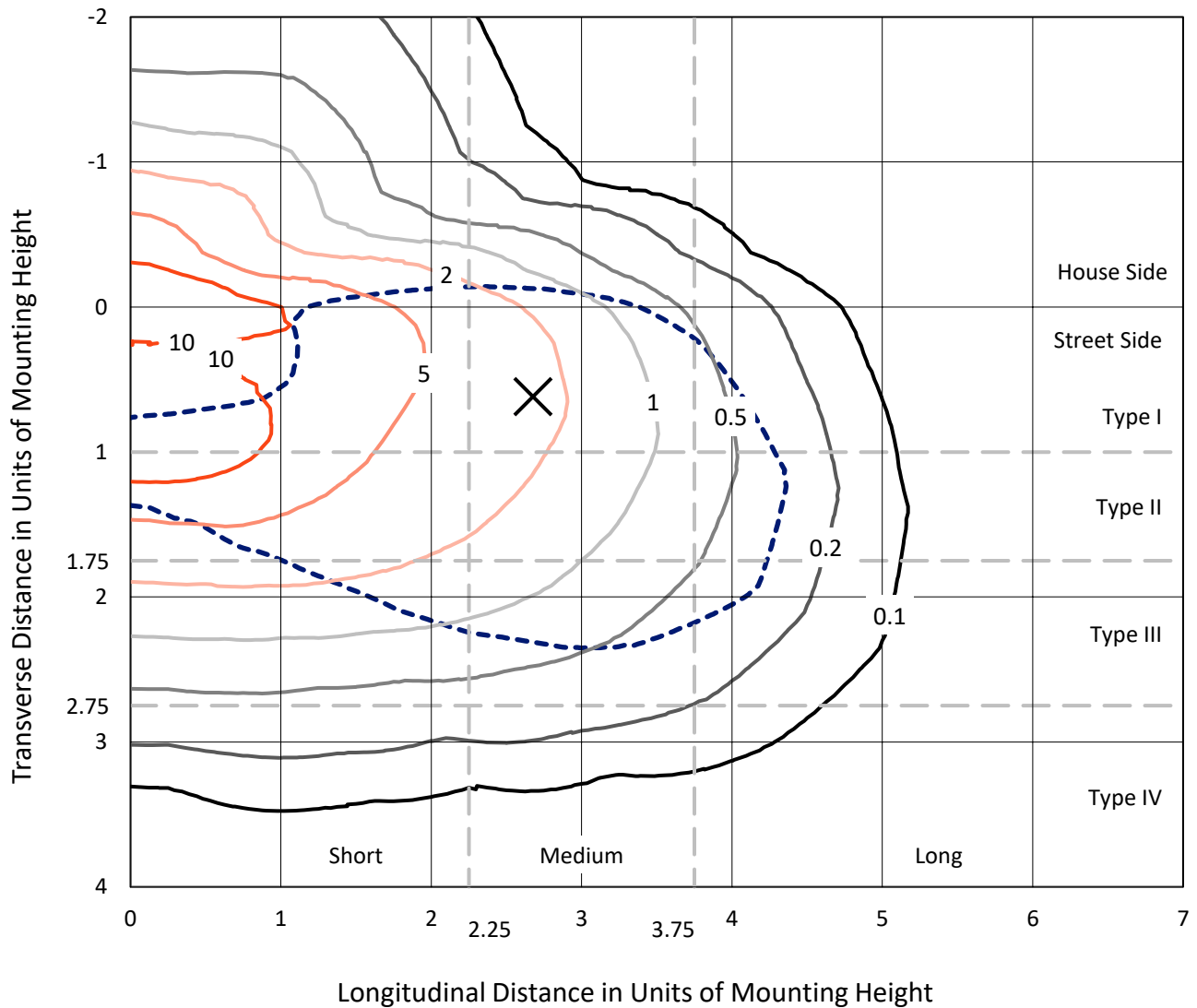
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

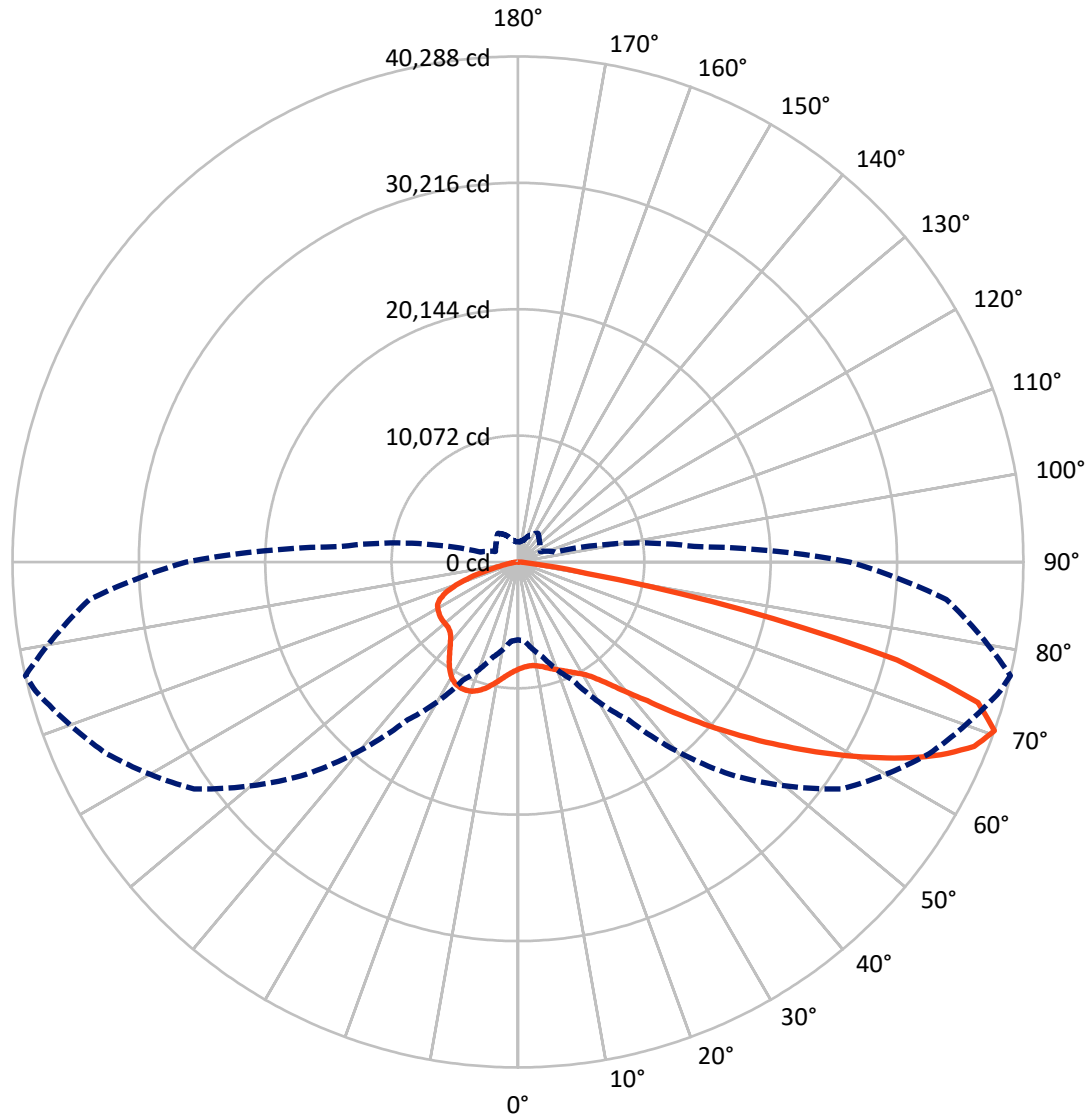
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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	13404.7	0.0	13404.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	47808.3	0.0	47808.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	61213.0	0.0	61213.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.5	1.3
10°-20°	2350.6	3.8
20°-30°	4019.9	6.6
30°-40°	6464.4	10.6
40°-50°	10092.6	16.5
50°-60°	13481.3	22.0
60°-70°	14369.0	23.5
70°-80°	8845.5	14.5
80°-90°	775.1	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°	61213.0	100.0
0°-180°	61213.0	100.0



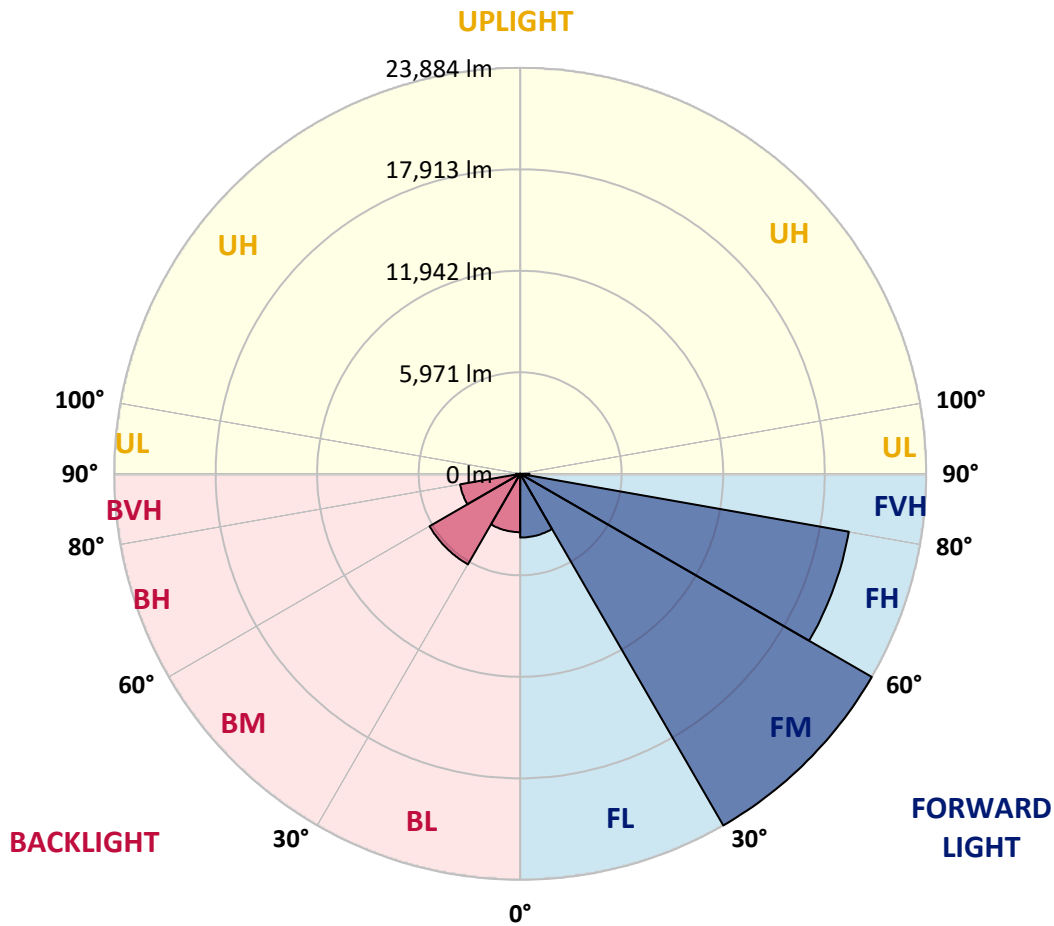
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.3	6.1			
FM (30°-60°)	23884.0	39.0			
FH (60°-80°)	19632.0	32.1			G5
FVH (80°-90°)	542.0	0.9			G4/750
BL (0°-30°)	3434.7	5.6	B4/5000		
BM (30°-60°)	6154.4	10.1	B4/8500		
BH (60°-80°)	3582.5	5.9	B4/5000		G4/5000
BVH (80°-90°)	233.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8
2.5°	7872.0	7868.9	7909.6	7922.2	7997.4	8050.7	8151.0	8257.6	8395.6	8411.2
5°	7417.4	7417.4	7464.5	7514.6	7611.8	7718.4	7872.0	8057.0	8295.2	8332.9
7.5°	7031.8	7056.9	7097.7	7194.9	7307.7	7461.3	7696.5	7959.8	8273.3	8332.9
10°	6721.5	6749.7	6799.8	6878.2	7047.5	7260.7	7567.9	7906.5	8326.6	8420.6
12.5°	6624.3	6652.5	6680.7	6740.3	6897.0	7147.8	7514.6	7931.6	8455.1	8549.2
15°	6850.0	6884.5	6862.5	6846.9	6928.4	7157.2	7539.7	8022.5	8615.0	8749.8
17.5°	7370.4	7383.0	7332.8	7185.4	7172.9	7295.2	7658.8	8147.9	8815.7	8963.0
20°	8210.6	8188.7	8085.2	7793.6	7627.5	7602.4	7862.6	8336.0	9022.6	9179.3
22.5°	9351.7	9326.7	9119.7	8658.9	8289.0	8044.4	8157.3	8580.5	9254.6	9430.1
25°	10775.0	10740.6	10436.5	9809.5	9235.7	8630.7	8558.6	8903.4	9539.8	9702.9
27.5°	12436.6	12408.4	12079.2	11251.6	10423.9	9433.3	9057.0	9282.8	9837.7	10022.6
30°	14223.5	14305.1	13721.9	12831.6	11784.5	10480.3	9727.9	9749.9	10223.3	10389.4
32.5°	16324.0	16465.1	15762.8	14634.2	13204.7	11618.4	10574.4	10402.0	10784.4	10922.4
35°	18405.7	18565.5	17982.4	16734.7	15088.8	12960.1	11458.5	11151.2	11530.6	11681.1
37.5°	20205.2	20418.3	20117.4	19032.7	17104.6	14577.8	12612.2	12032.2	12449.1	12637.2
40°	21625.3	21951.4	21929.4	21252.2	19481.0	16540.3	14076.2	13120.0	13590.3	13794.1
42.5°	22779.0	23061.1	23305.7	23271.2	21960.8	18769.3	15797.3	14533.9	14891.3	15126.4
45°	23575.3	23876.2	24402.9	24970.4	24346.5	21155.1	17769.2	16211.1	16537.2	16891.4
47.5°	24286.9	24628.7	25312.1	26211.8	26371.7	23550.2	19929.3	18164.3	18462.1	18828.9
50°	24349.6	24644.3	25704.0	26979.9	27810.7	25851.3	22249.2	20355.6	20634.6	21026.5
52.5°	22835.4	23299.4	25149.1	26958.0	28472.2	27776.2	24553.4	22634.8	22948.3	23418.5
55°	17725.4	18405.7	23522.0	26117.8	28237.1	29020.8	26744.8	25058.1	25459.4	25951.6
57.5°	15267.5	15565.3	18672.1	24587.9	27164.9	29343.7	28594.4	27506.6	28152.4	28691.6
60°	13721.9	13969.6	15806.7	22208.4	25754.1	28832.7	30024.0	29788.9	30904.9	31547.6
62.5°	12066.7	12301.8	13972.7	18543.6	23948.4	27983.1	30926.9	31895.6	33726.5	34428.7
65°	10423.9	10624.6	12226.5	15581.0	21653.5	27133.5	31394.0	33717.1	36337.9	37065.2
67.5°	8593.1	8759.2	10273.4	13145.1	18863.4	25970.4	31626.0	35149.8	38610.8	39234.7
70°	6201.1	6329.6	7894.0	10395.7	15361.6	23970.3	31531.9	36165.5	39789.6	40288.0
72.5°	2931.2	3047.2	4884.3	6749.7	10850.3	20076.6	29629.0	35359.8	38592.0	38344.3
75°	1564.4	1664.7	2805.8	3702.4	5730.8	13762.7	24246.2	30459.8	32406.6	31202.8
77.5°	1059.6	1138.0	1736.8	2222.7	2617.7	6533.4	15584.1	21089.2	20289.8	18302.2
80°	840.2	921.7	1423.3	1504.8	1266.5	2360.7	6439.3	9762.4	7013.0	5608.5
82.5°	645.8	736.7	1197.6	1091.0	689.7	968.7	1874.7	3088.0	1796.4	1366.9
85°	395.0	492.2	940.5	696.0	388.7	442.0	636.4	859.0	548.6	457.7
87.5°	200.6	282.2	476.5	253.9	175.6	103.5	169.3	169.3	144.2	125.4
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°
8539.8	0°	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8	8539.8
8495.9	2.5°	8571.1	8633.8	8740.4	8840.7	8919.1	8994.3	9069.6	9110.3	9122.9	9173.0
8542.9	5°	8671.4	8787.4	8994.3	9188.7	9311.0	9386.2	9439.5	9470.9	9477.1	9492.8
8671.4	7.5°	8856.4	9041.4	9329.8	9524.2	9615.1	9608.8	9586.9	9508.5	9477.1	9448.9
8859.5	10°	9116.6	9361.1	9715.4	9850.2	9793.8	9643.3	9448.9	9220.1	9113.5	9010.0
9116.6	12.5°	9439.5	9749.9	10097.9	10091.6	9812.6	9427.0	8975.5	8624.4	8401.8	8241.9
9433.3	15°	9831.4	10188.8	10455.3	10242.1	9630.8	8937.9	8276.4	7818.7	7618.1	7442.5
9753.0	17.5°	10235.8	10618.3	10740.6	10195.1	9173.0	8213.7	7464.5	7103.9	6906.4	6812.4
10097.9	20°	10630.8	11010.2	10909.8	9925.4	8477.1	7392.4	6724.6	6527.1	6486.3	6508.3
10433.3	22.5°	11047.8	11386.4	10944.3	9405.0	7589.9	6552.2	6185.4	6191.6	6282.6	6348.4
10784.4	25°	11474.1	11703.0	10853.4	8652.6	6636.8	5934.6	5843.7	5944.0	6122.7	6251.2
11179.5	27.5°	11884.8	11985.1	10655.9	7721.5	5818.6	5492.5	5508.2	5715.1	5984.7	6163.4
11659.1	30°	12348.8	12236.0	10276.6	6674.4	5251.1	5113.2	5244.9	5486.3	5755.9	5915.8
12264.2	32.5°	12872.4	12452.3	9674.6	5705.7	4849.9	4809.1	5025.4	5182.2	5301.3	5348.3
13066.7	35°	13524.4	12756.4	8903.4	5025.4	4489.3	4586.5	4793.4	4715.1	4668.0	4643.0
14145.2	37.5°	14370.9	13167.0	8000.5	4583.4	4197.8	4426.6	4511.3	4266.8	4081.8	3990.9
15452.5	40°	15389.8	13769.0	7132.2	4241.7	4012.8	4288.7	4141.4	3846.7	3611.5	3483.0
16922.8	42.5°	16521.5	14399.1	6401.7	3984.6	3909.4	4175.8	3868.6	3517.5	3138.1	3097.4
18675.3	45°	17709.7	15048.1	5903.2	3787.1	3859.2	4078.7	3711.9	3144.4	2874.8	3041.0
20434.0	47.5°	18897.9	15643.7	5602.3	3639.7	3834.1	3968.9	3573.9	2937.5	2746.3	2987.7
22318.1	50°	20220.8	16176.7	5467.5	3533.2	3805.9	3925.0	3367.0	2884.2	2611.5	2771.4
24268.1	52.5°	21534.4	16590.5	5367.1	3426.6	3765.1	3890.5	3266.7	2821.5	2448.4	2457.8
26230.6	55°	22844.8	16860.1	5257.4	3285.5	3674.2	3815.3	3257.3	2752.5	2326.2	2282.3
28306.0	57.5°	24243.0	17013.7	5122.6	3128.7	3517.5	3624.1	3247.9	2699.2	2288.6	2216.5
30428.4	60°	25666.3	17239.4	4947.0	2937.5	3307.4	3395.2	3225.9	2680.4	2266.6	2144.3
32428.6	62.5°	26942.3	17317.8	4737.0	2755.7	3037.8	3169.5	3178.9	2664.8	2207.0	1997.0
34090.1	65°	27779.3	16979.2	4370.2	2548.8	2746.3	2937.5	3088.0	2611.5	2100.5	1890.4
34911.5	67.5°	27744.9	16013.6	3796.5	2282.3	2464.1	2680.4	2956.3	2520.5	1971.9	1758.7
34290.8	70°	26453.2	14107.6	3069.2	1971.9	2153.8	2404.6	2787.0	2385.7	1818.3	1614.5
30491.1	72.5°	22688.1	11041.5	2229.0	1608.3	1793.2	2119.3	2567.6	2222.7	1661.6	1486.0
22534.5	75°	16208.0	6987.9	1511.1	1235.2	1395.1	1796.4	2294.8	2031.5	1517.3	1492.3
11286.0	77.5°	8279.6	3338.8	1000.1	902.9	971.9	1417.0	1928.0	1815.2	1539.3	1232.1
3210.3	80°	2693.0	1232.1	630.1	614.5	645.8	943.6	1492.3	1489.1	1166.2	837.0
777.5	82.5°	859.0	529.8	410.7	395.0	379.3	592.5	1040.8	1178.8	786.9	529.8
279.0	85°	341.7	316.6	241.4	222.6	159.9	279.0	545.5	783.8	586.2	382.5
72.1	87.5°	125.4	125.4	65.8	47.0	34.5	94.1	147.3	235.1	335.4	197.5
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>
8539.8
9201.3
9517.9
9455.2
8978.7
8204.3
7423.7
6840.6
6498.9
6364.1
6285.7
6207.3
5953.4
5373.4
4668.0
4012.8
3492.4
3138.1
3128.7
3100.5
2890.5
2523.7
2313.6
2225.9
2153.8
1997.0
1890.4
1768.1
1633.3
1476.6
1407.6
1097.3
739.9
526.7
391.9
194.4
0.0

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