

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: P955273

Luminaire Tested: **GALN-SB8B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47882 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

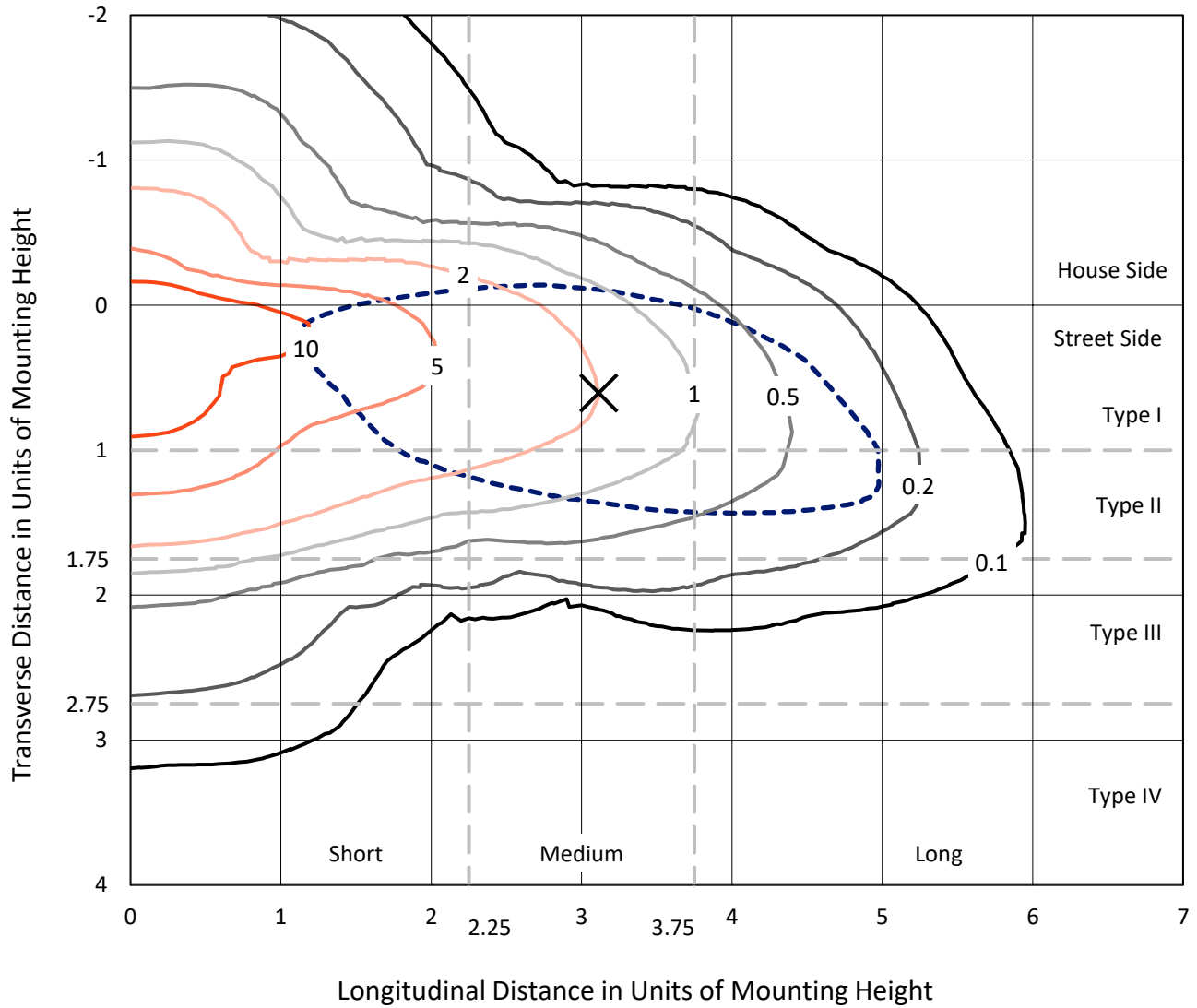
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

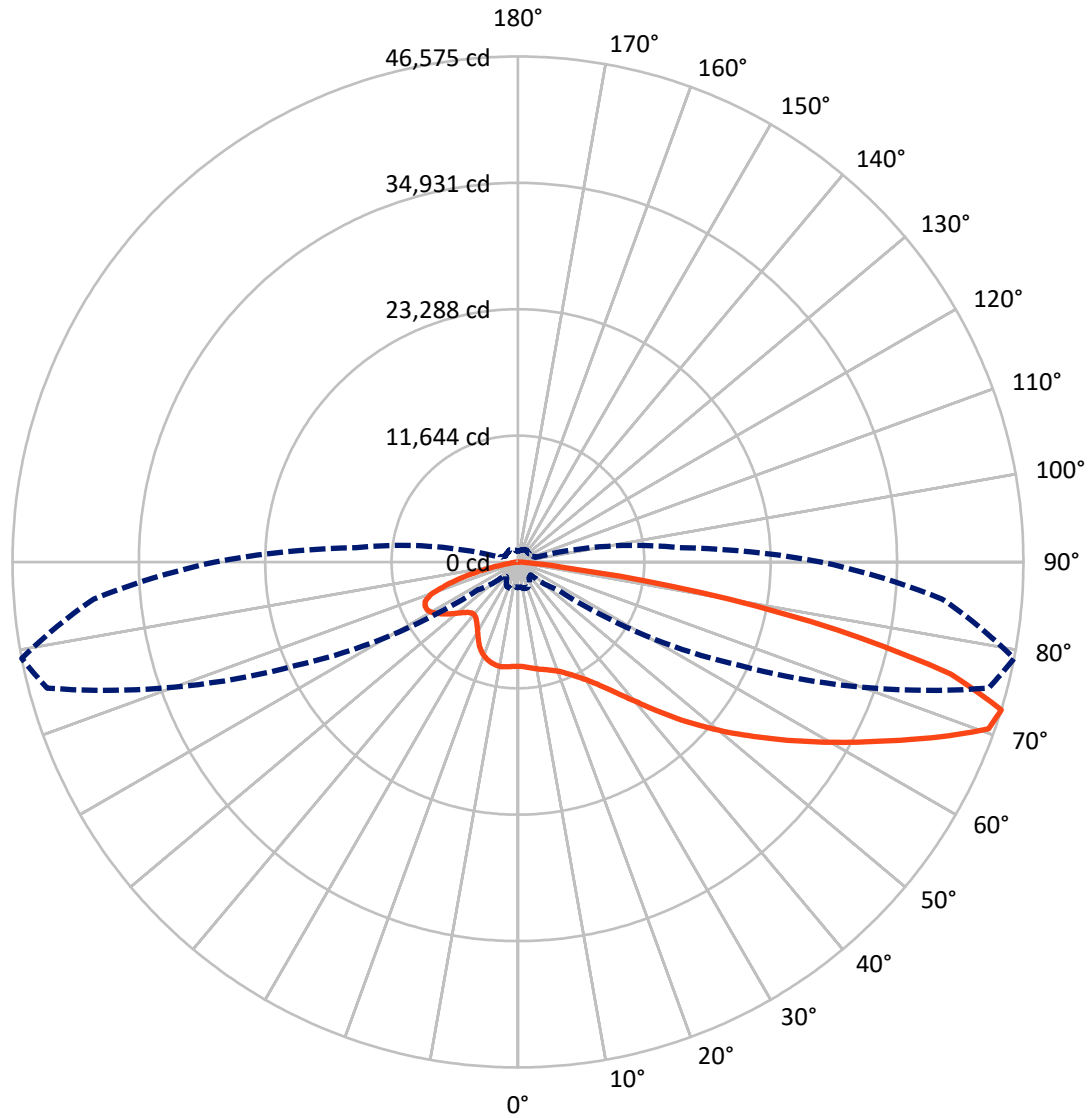
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10536.7	0.0	10536.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	37345.3	0.0	37345.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	47882.0	0.0	47882.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.5	1.8
10°-20°	2281.1	4.8
20°-30°	3680.8	7.7
30°-40°	5524.3	11.5
40°-50°	7836.5	16.4
50°-60°	9896.5	20.7
60°-70°	10051.2	21.0
70°-80°	6850.4	14.3
80°-90°	888.8	1.9
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°	47882.0	100.0
0°-180°	47882.0	100.0

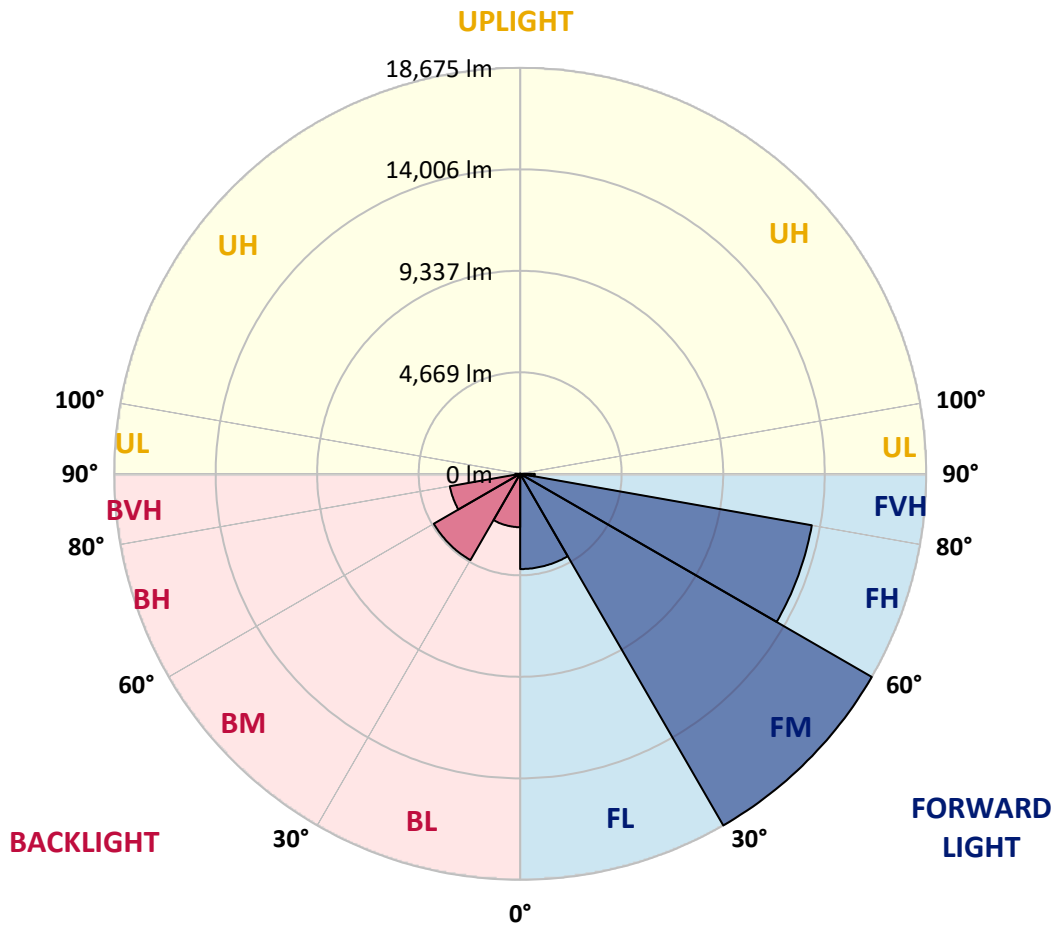


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4380.0	9.1			
FM (30°-60°)	18675.0	39.0			
FH (60°-80°)	13620.8	28.4			G5
FVH (80°-90°)	669.5	1.4			G4/750
BL (0°-30°)	2454.3	5.1	B3/2500		
BM (30°-60°)	4582.3	9.6	B3/5000		
BH (60°-80°)	3280.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	219.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9
2.5°	9616.9	9571.3	9599.2	9589.1	9601.7	9616.9	9622.0	9629.6	9654.9	9652.4
5°	9596.7	9551.1	9589.1	9576.4	9609.3	9644.8	9675.2	9703.0	9743.6	9761.3
7.5°	9553.6	9523.2	9561.2	9599.2	9660.0	9713.2	9756.2	9819.5	9877.8	9887.9
10°	9302.9	9280.1	9368.7	9467.5	9634.7	9779.0	9872.7	9946.2	10009.5	10019.6
12.5°	9042.0	9014.1	9112.9	9247.1	9518.1	9779.0	9976.6	10072.8	10128.5	10161.5
15°	8998.9	8976.1	9031.9	9148.4	9373.8	9710.6	10047.5	10224.8	10272.9	10310.9
17.5°	9206.6	9163.6	9186.4	9226.9	9358.6	9647.3	10103.2	10397.0	10470.5	10511.0
20°	9687.8	9627.1	9591.6	9510.5	9487.8	9657.4	10098.1	10604.7	10700.9	10751.6
22.5°	10328.6	10288.1	10212.1	10007.0	9784.1	9781.6	10194.4	10870.6	11050.5	11098.6
25°	11103.7	11042.9	10946.6	10668.0	10240.0	10027.2	10356.5	11210.0	11511.4	11524.1
27.5°	11995.2	11904.0	11772.3	11405.1	10827.6	10412.2	10604.7	11600.1	12040.8	12035.7
30°	12934.8	12843.7	12704.4	12258.6	11531.7	10931.4	10949.2	12020.5	12668.9	12641.0
32.5°	13621.2	13552.8	13525.0	13180.5	12342.2	11544.4	11344.3	12486.5	13443.9	13418.6
35°	14148.0	14059.4	14092.3	13917.6	13226.1	12230.7	11828.0	13041.2	14386.1	14383.6
37.5°	14669.8	14591.3	14619.1	14502.6	14044.2	13102.0	12418.2	13720.0	15553.7	15609.5
40°	15146.0	15062.4	15173.8	15064.9	14679.9	14029.0	13089.3	14487.4	16906.2	17012.6
42.5°	15432.2	15366.3	15551.2	15553.7	15232.1	14811.6	13826.4	15333.4	18471.5	18709.6
45°	15530.9	15508.1	15786.7	15845.0	15720.9	15265.0	14490.0	16255.3	20158.3	20583.8
47.5°	15424.6	15381.5	15766.5	15981.8	16080.5	15477.7	15039.6	17253.2	21880.6	22503.6
50°	14887.6	14804.0	15376.4	15829.8	16181.9	15617.1	15594.3	18405.6	23838.4	24519.7
52.5°	13922.6	13859.3	14510.2	15297.9	15959.0	15685.4	16217.3	19664.4	25697.5	26578.9
55°	12689.2	12605.6	13322.4	14350.7	15404.3	15662.6	16840.4	21072.6	27890.8	28784.9
57.5°	10733.9	10566.7	11473.4	12689.2	14500.1	15634.8	17488.8	22473.3	30119.7	31191.0
60°	7882.0	7633.8	8745.6	10186.8	12732.2	15363.8	18291.7	24043.6	32794.3	33759.3
62.5°	4589.4	4445.0	5171.9	6516.8	9596.7	13768.1	18742.5	25869.7	35423.3	36436.4
65°	3563.6	3523.1	3586.4	3690.2	5341.6	10308.4	17352.0	27650.2	38766.6	39475.7
67.5°	3259.7	3229.3	3257.1	3062.1	2710.1	5741.8	13727.6	28101.1	42347.9	42778.5
70°	2897.5	2862.0	2953.2	2786.0	2132.6	2611.3	8869.8	26464.9	45197.3	46005.2
72.5°	2360.5	2320.0	2532.8	2456.8	1795.7	1676.7	4455.1	22577.1	44898.4	46575.1
75°	1813.5	1790.7	2043.9	2107.3	1463.9	1319.6	2137.7	16782.1	39511.2	41200.5
77.5°	1408.2	1390.5	1519.7	1750.1	1180.3	1023.2	1314.5	10645.2	29775.2	30071.6
80°	1056.2	1005.5	1124.5	1355.0	919.4	747.2	891.5	6207.8	18821.0	17060.7
82.5°	661.1	635.7	734.5	904.2	648.4	514.2	580.0	3429.4	7542.6	4442.5
85°	377.4	367.3	400.2	516.7	352.1	296.3	331.8	1514.6	1377.8	947.3
87.5°	152.0	146.9	182.4	230.5	129.2	108.9	116.5	364.7	303.9	281.1
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°
9611.9	0°	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9	9611.9
9649.8	2.5°	9639.7	9639.7	9604.3	9548.5	9485.2	9444.7	9378.8	9361.1	9292.7	9272.5
9736.0	5°	9756.2	9736.0	9627.1	9470.0	9254.7	9057.2	8839.4	8702.6	8510.1	8441.7
9905.7	7.5°	9903.1	9847.4	9660.0	9315.5	8864.7	8421.5	7960.5	7611.0	7276.6	7157.6
10045.0	10°	10037.4	9958.8	9639.7	9036.9	8256.8	7489.4	6754.9	6240.7	5850.7	5691.1
10199.5	12.5°	10171.6	10027.2	9505.5	8573.4	7393.2	6352.2	5569.6	5169.4	4928.8	4736.3
10326.1	15°	10298.2	10095.6	9297.8	7952.9	6445.9	5389.7	4812.3	4493.1	4300.6	4174.0
10511.0	17.5°	10445.1	10153.9	8986.3	7165.2	5544.2	4723.6	4252.5	4060.0	4022.0	4006.8
10764.3	20°	10650.3	10207.1	8576.0	6283.8	4880.6	4191.7	3948.6	3930.9	3928.3	3920.7
11068.2	22.5°	10870.6	10270.4	8033.9	5483.4	4315.8	3859.9	3816.9	3781.4	3758.6	3756.1
11435.4	25°	11131.5	10290.6	7355.2	4827.5	3834.6	3702.9	3652.3	3599.1	3583.9	3583.9
11853.4	27.5°	11384.8	10222.3	6564.9	4257.6	3563.6	3558.5	3492.7	3475.0	3472.4	3480.0
12329.5	30°	11638.1	10093.1	5779.8	3730.8	3406.6	3406.6	3383.8	3396.4	3406.6	3431.9
12983.0	32.5°	11980.0	9956.3	5123.8	3340.7	3269.8	3244.5	3267.3	3292.6	3302.7	3335.7
13841.6	35°	12481.5	9860.1	4602.0	3128.0	3128.0	3095.0	3107.7	3102.6	3079.8	3064.6
14880.0	37.5°	13145.1	9855.0	4171.5	3029.2	3008.9	3003.9	3006.4	2973.5	2884.8	2778.4
16136.3	40°	13942.9	9991.8	3839.7	2960.8	2945.6	2976.0	2960.8	2872.2	2629.0	2444.1
17681.3	42.5°	15014.3	10381.8	3626.9	2877.2	2922.8	2960.8	2900.0	2593.6	2428.9	2304.8
19441.5	45°	16275.6	11015.0	3518.0	2788.6	2879.8	2925.3	2631.5	2497.3	2365.6	2216.2
21361.4	47.5°	17704.1	11812.8	3492.7	2705.0	2783.5	2811.4	2517.6	2456.8	2307.4	2145.3
23291.3	50°	19259.2	12757.6	3561.1	2606.2	2644.2	2548.0	2479.6	2423.9	2269.4	2109.8
25269.4	52.5°	20867.5	13798.5	3697.8	2472.0	2504.9	2398.5	2464.4	2416.3	2246.6	2031.3
27313.4	55°	22447.9	14847.1	3829.5	2315.0	2363.1	2264.3	2421.3	2385.9	2142.7	1899.6
29494.1	57.5°	24053.7	15890.6	3958.7	2175.6	2226.3	2135.1	2352.9	2304.8	2026.2	1778.0
31874.9	60°	25722.8	16903.7	4019.5	2041.4	2076.9	2016.1	2249.1	2165.5	1894.5	1653.9
34215.2	62.5°	27285.5	17747.1	3920.7	1907.2	1930.0	1904.6	2112.3	2000.9	1762.8	1514.6
36654.2	65°	28853.3	18248.6	3616.8	1775.5	1780.5	1767.9	1919.8	1823.6	1608.3	1393.0
38789.3	67.5°	30274.2	18529.7	3133.0	1633.6	1621.0	1615.9	1740.0	1631.1	1458.9	1271.4
40412.9	70°	30575.6	17815.5	2393.5	1466.5	1466.5	1453.8	1542.5	1431.0	1294.2	1142.3
39250.3	72.5°	27926.3	14986.4	1699.5	1276.5	1296.8	1271.4	1344.9	1251.2	1127.1	1025.8
33827.7	75°	22518.8	10989.7	1236.0	1081.5	1117.0	1073.9	1142.3	1076.4	970.1	967.5
23311.6	77.5°	15472.7	6795.4	896.6	891.5	916.9	861.1	939.7	904.2	808.0	764.9
10146.3	80°	6602.9	2710.1	653.5	688.9	688.9	638.3	729.4	739.6	656.0	635.7
1957.8	82.5°	1314.5	770.0	458.4	473.6	445.8	430.6	516.7	572.4	790.2	878.9
590.1	85°	395.1	283.7	276.1	258.3	227.9	230.5	303.9	574.9	709.2	405.2
195.0	87.5°	108.9	70.9	73.5	58.3	48.1	63.3	103.8	435.6	238.1	101.3
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>
9611.9
9305.4
8492.4
7172.8
5726.6
4799.6
4196.8
4017.0
3946.1
3784.0
3599.1
3500.3
3449.6
3363.5
3100.1
2781.0
2439.1
2299.8
2206.0
2132.6
2092.1
2016.1
1886.9
1772.9
1646.3
1512.1
1377.8
1256.3
1137.2
995.4
871.3
716.8
635.7
881.4
349.5
86.1
0.0

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