

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: P954918

Luminaire Tested: **GALN-SB8A-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37506 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

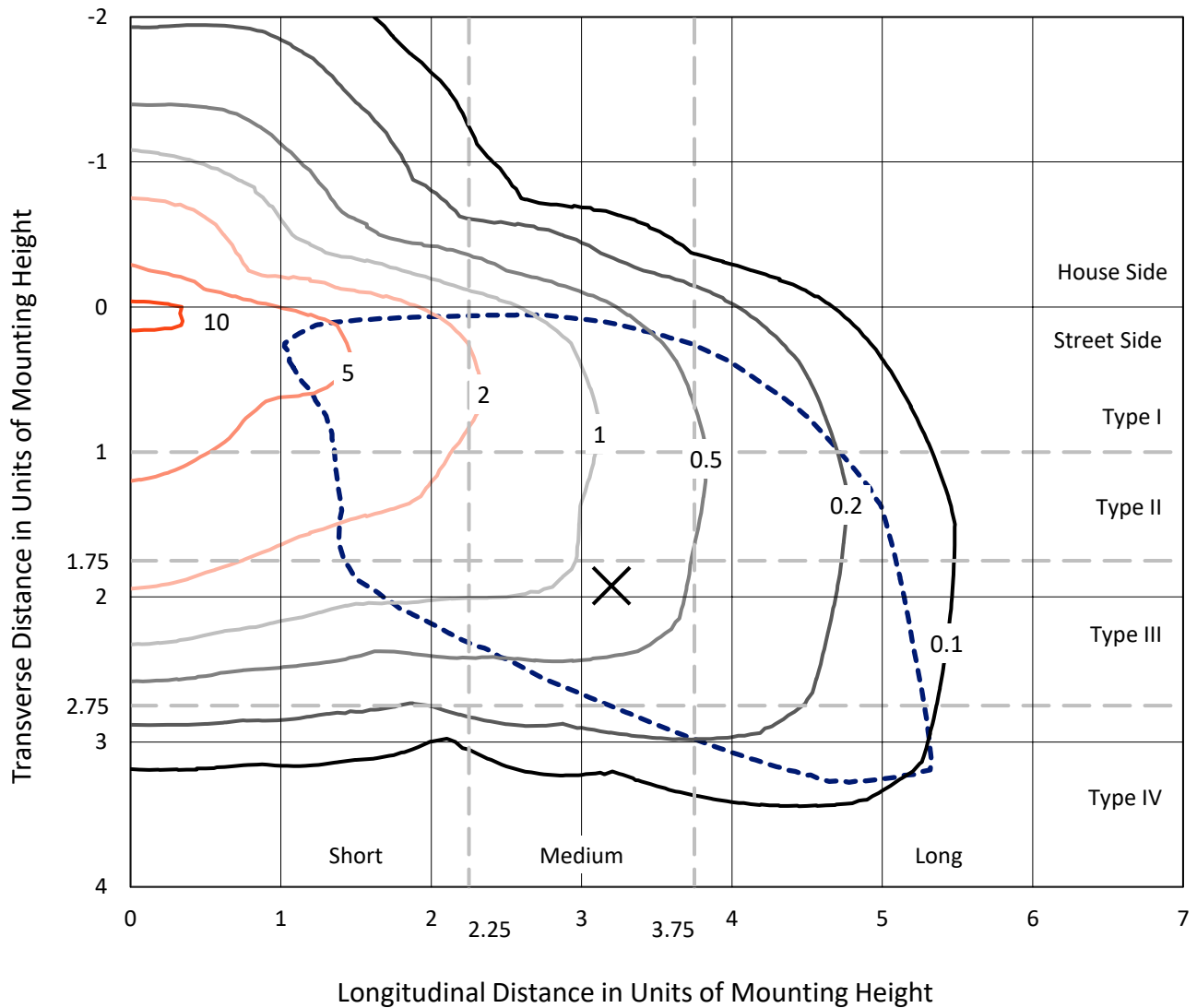
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

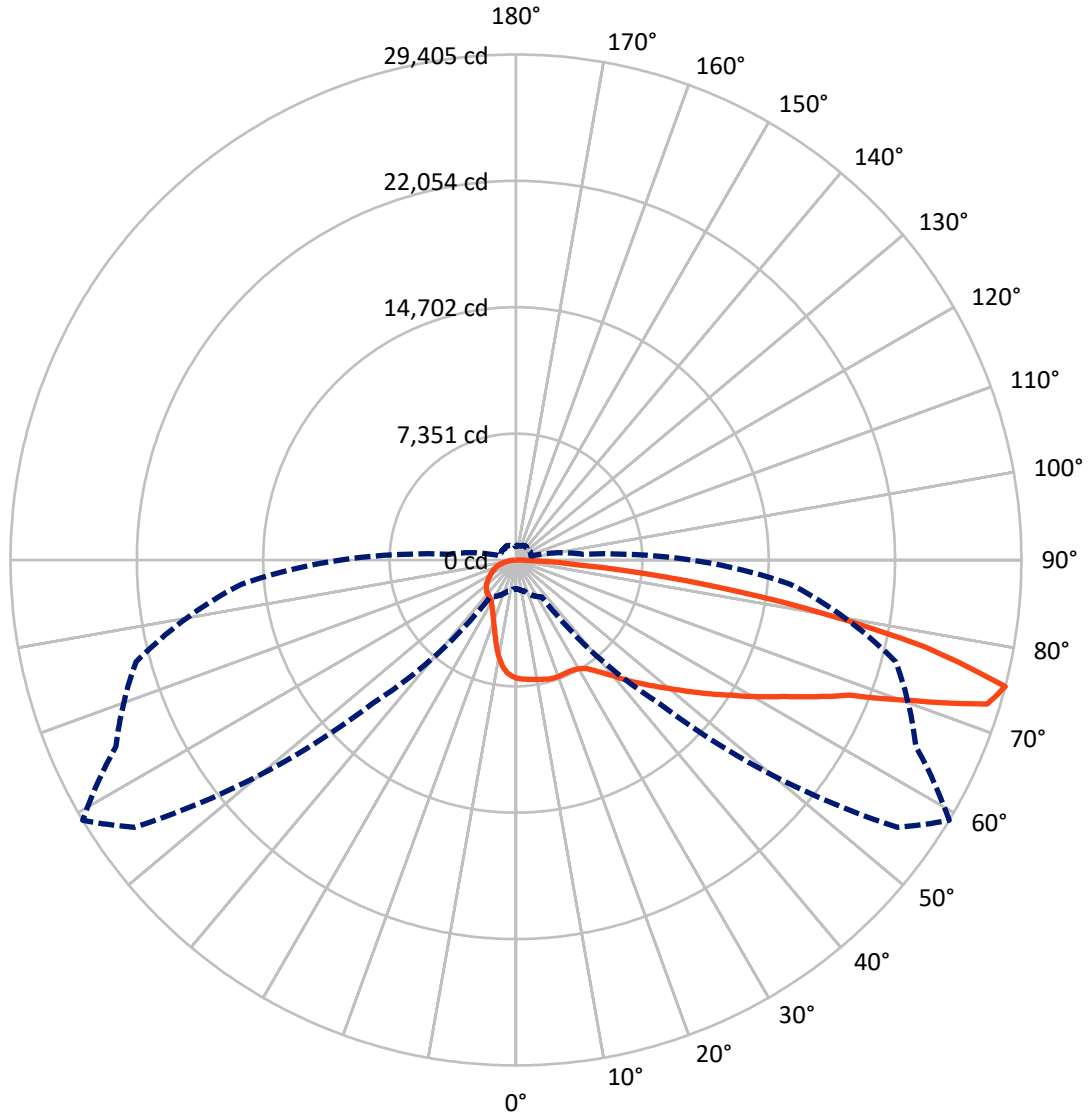
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7034.5	0.0	7034.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30471.5	0.0	30471.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	37506.0	0.0	37506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.3	1.6
10°-20°	1577.8	4.2
20°-30°	2396.5	6.4
30°-40°	3562.4	9.5
40°-50°	5297.9	14.1
50°-60°	7191.3	19.2
60°-70°	8779.4	23.4
70°-80°	6889.9	18.4
80°-90°	1193.5	3.2
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°	37506.0	100.0
0°-180°	37506.0	100.0

Coefficient of Utilization



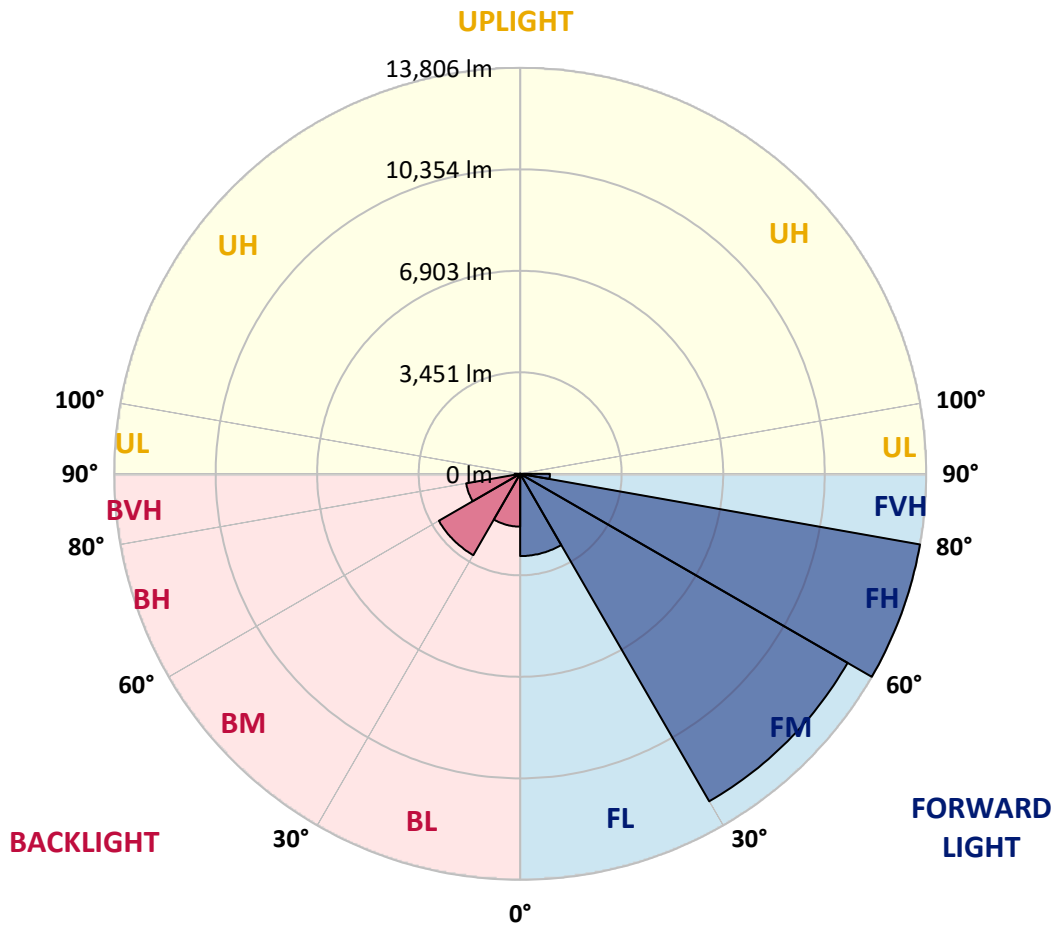
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.5	7.5			
FM (30°-60°)	12858.6	34.3			
FH (60°-80°)	13805.6	36.8			G5
FVH (80°-90°)	1010.8	2.7			G5
BL (0°-30°)	1795.1	4.8	B3/2500		
BM (30°-60°)	3193.0	8.5	B3/5000		
BH (60°-80°)	1863.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	182.7	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1
2.5°	6942.7	6918.4	6942.7	6932.6	6928.5	6920.5	6922.5	6936.6	6928.5	6938.6
5°	6896.2	6882.1	6906.3	6900.3	6926.5	6930.5	6956.8	6972.9	6983.0	6985.0
7.5°	6819.6	6805.5	6839.8	6868.0	6924.5	6940.6	6995.1	7021.3	7035.5	7059.7
10°	6539.1	6533.1	6617.8	6724.8	6857.9	6940.6	7023.4	7067.7	7089.9	7154.5
12.5°	6042.8	6050.9	6161.8	6367.6	6634.0	6900.3	7055.6	7120.2	7154.5	7235.2
15°	5568.7	5566.6	5687.7	5907.6	6280.9	6722.7	7071.8	7182.8	7241.3	7360.3
17.5°	5294.3	5286.2	5370.9	5538.4	5885.4	6450.4	7031.4	7217.1	7342.1	7491.4
20°	5243.8	5227.7	5272.1	5354.8	5600.9	6151.7	6926.5	7217.1	7422.8	7616.5
22.5°	5427.4	5401.2	5383.0	5372.9	5481.9	5905.6	6807.5	7192.8	7541.9	7796.1
25°	5796.6	5756.3	5663.5	5572.7	5540.4	5794.6	6702.6	7186.8	7719.4	8038.2
27.5°	6393.9	6343.4	6155.8	5937.9	5742.2	5851.1	6656.2	7223.1	7915.2	8294.5
30°	7134.3	7079.9	6843.8	6508.9	6157.8	6061.0	6714.7	7330.0	8165.3	8635.4
32.5°	7798.1	7737.6	7535.8	7194.9	6720.7	6424.1	6900.3	7533.8	8558.8	9109.6
35°	8387.3	8316.7	8135.1	7820.3	7410.7	6934.6	7235.2	7895.0	9117.7	9880.3
37.5°	8964.3	8881.6	8683.9	8351.0	8064.5	7614.5	7697.2	8359.0	9860.1	10816.5
40°	9610.0	9490.9	9250.8	8921.9	8643.5	8411.5	8304.6	8928.0	10614.7	11861.6
42.5°	10235.4	10122.4	9835.9	9555.5	9206.4	9139.8	9008.7	9593.8	11439.9	13009.7
45°	10909.3	10774.1	10427.1	10072.0	9852.1	9624.1	9690.7	10259.6	12249.0	14179.9
47.5°	11540.8	11389.5	10979.9	10584.5	10463.4	10031.6	10316.1	10992.0	13090.4	15366.2
50°	11881.8	11732.5	11391.5	11034.4	10939.6	10534.0	10994.0	11797.1	13972.1	16548.6
52.5°	12166.3	12004.9	11559.0	11361.3	11333.0	11080.8	11829.3	12717.1	14853.8	17593.7
55°	12468.9	12289.4	11720.4	11542.8	11672.0	11694.2	12820.0	13760.2	15785.9	18612.6
57.5°	12818.0	12590.0	11875.8	11696.2	12002.9	12412.4	13957.9	14841.7	16701.9	19556.9
60°	13146.9	12916.8	12174.4	11940.3	12360.0	13245.7	15263.3	16151.1	17739.0	20398.2
62.5°	13211.4	13021.8	12412.4	12410.4	12844.2	14218.2	16808.8	17472.6	18644.9	21229.5
65°	12093.7	11974.6	11613.5	12392.3	13538.3	15618.4	18529.9	19163.4	19797.0	21955.8
67.5°	9204.4	9220.6	9194.3	10697.5	12977.4	17630.0	21021.7	20973.2	21219.4	22770.9
70°	4208.8	4303.6	4921.0	7384.5	10396.8	17862.1	25141.6	24514.2	23005.0	23826.2
72.5°	2273.9	2346.5	2598.7	3577.3	6250.6	15880.7	28220.5	28666.4	25379.7	24536.4
75°	1668.6	1708.9	1884.5	2273.9	2624.9	11803.1	27116.9	29404.9	25676.3	22879.9
77.5°	1248.9	1267.1	1410.3	1801.7	1343.7	6222.4	21667.3	24352.8	21980.0	18798.2
80°	905.9	926.1	1033.0	1351.8	942.2	2275.9	14878.0	17093.3	15053.5	11982.7
82.5°	625.5	633.5	679.9	920.0	657.7	883.7	8441.8	10023.6	8403.4	4204.7
85°	377.3	387.4	407.6	536.7	373.3	419.7	3643.8	3768.9	2511.9	1004.8
87.5°	155.4	165.4	181.6	226.0	147.3	117.0	601.3	754.6	470.1	294.6
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°
6884.1	0°	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1	6884.1
6904.3	2.5°	6894.2	6880.1	6841.8	6789.3	6740.9	6680.4	6654.1	6631.9	6611.8	6573.4
6958.8	5°	6936.6	6898.3	6795.4	6662.2	6510.9	6345.4	6184.0	6073.1	5978.2	5907.6
7021.3	7.5°	7001.2	6928.5	6740.9	6468.5	6121.5	5766.4	5445.6	5217.6	5046.1	4983.5
7110.1	10°	7067.7	6981.0	6654.1	6173.9	5574.7	5027.9	4602.2	4368.2	4231.0	4186.6
7215.0	12.5°	7146.4	7019.3	6519.0	5764.4	4963.4	4364.1	3992.9	3855.7	3785.1	3760.9
7344.2	15°	7261.4	7051.6	6315.2	5251.9	4380.3	3879.9	3639.8	3545.0	3508.7	3506.6
7477.3	17.5°	7348.2	7057.7	5998.4	4703.1	3932.4	3587.3	3389.6	3353.3	3377.5	3413.8
7608.5	20°	7445.0	7003.2	5582.8	4202.7	3617.6	3331.1	3248.4	3272.6	3331.1	3383.6
7782.0	22.5°	7513.6	6904.3	5080.4	3813.3	3345.2	3183.8	3179.8	3230.2	3262.5	3288.7
7985.8	25°	7574.2	6736.9	4547.7	3486.5	3121.3	3095.0	3139.4	3123.3	3101.1	3123.3
8189.5	27.5°	7618.6	6472.5	4071.6	3200.0	2963.9	3034.5	3008.3	2972.0	2969.9	2982.1
8429.6	30°	7604.4	6119.5	3680.2	2927.6	2852.9	2921.5	2859.0	2852.9	2846.9	2852.9
8790.8	32.5°	7604.4	5718.0	3379.5	2739.9	2782.3	2756.1	2750.0	2735.9	2711.7	2709.7
9281.1	35°	7646.8	5316.4	3121.3	2639.1	2723.8	2661.2	2665.3	2631.0	2580.5	2556.3
9930.8	37.5°	7733.6	4993.6	2865.0	2590.6	2620.9	2618.9	2602.7	2544.2	2455.5	2378.8
10741.8	40°	7943.4	4898.8	2689.5	2568.4	2572.5	2596.7	2554.3	2441.3	2239.6	2114.5
11565.0	42.5°	8272.3	5058.2	2651.2	2514.0	2540.2	2564.4	2481.7	2219.4	2076.1	2001.5
12428.6	45°	8689.9	5336.6	2733.9	2435.3	2463.5	2505.9	2259.7	2134.6	2070.1	2072.1
13284.1	47.5°	9218.5	5629.2	2887.2	2366.7	2352.6	2376.8	2112.5	2035.8	1947.0	1969.2
14105.2	50°	9829.9	5925.8	3032.5	2273.9	2229.5	2150.8	2017.6	1945.0	1832.0	1779.5
14898.2	52.5°	10491.7	6212.3	3091.0	2160.9	2096.3	2005.5	1953.1	1864.3	1727.1	1640.3
15646.7	55°	11119.1	6472.5	3026.4	2025.7	1963.2	1892.5	1884.5	1830.0	1682.7	1561.6
16312.5	57.5°	11712.3	6690.5	2865.0	1888.5	1828.0	1785.6	1840.1	1813.8	1628.2	1472.9
16942.0	60°	12214.7	6839.8	2631.0	1749.3	1706.9	1684.7	1767.4	1759.4	1551.6	1378.0
17506.9	62.5°	12614.2	6898.3	2372.7	1616.1	1606.0	1565.7	1666.6	1666.6	1454.7	1285.2
18003.3	65°	12926.9	6841.8	2110.4	1485.0	1505.1	1444.6	1543.5	1531.4	1351.8	1202.5
18574.3	67.5°	13203.3	6656.2	1819.9	1355.8	1402.3	1325.6	1414.4	1386.1	1238.8	1119.8
19068.6	70°	13326.4	6224.4	1489.0	1226.7	1283.2	1208.6	1285.2	1232.8	1111.7	1031.0
18525.8	72.5°	12337.8	5173.2	1172.2	1091.5	1140.0	1079.4	1146.0	1085.5	974.5	938.2
15997.8	75°	10207.2	3881.9	901.9	944.2	980.6	934.2	978.5	934.2	833.3	859.5
11817.2	77.5°	7412.8	2620.9	690.0	788.9	805.0	780.8	819.2	768.7	677.9	671.9
5889.5	80°	3686.2	1535.4	540.7	623.4	617.4	601.3	645.6	621.4	544.8	577.0
1589.9	82.5°	1067.3	657.7	393.4	437.8	425.7	429.8	462.0	474.1	710.2	704.2
494.3	85°	334.9	258.3	236.1	244.1	232.0	238.1	272.4	540.7	500.4	292.6
153.3	87.5°	86.8	88.8	58.5	62.5	64.6	76.7	86.8	328.9	157.4	102.9
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>
6884.1
6555.3
5849.1
4874.6
4118.0
3766.9
3514.7
3427.9
3401.7
3302.9
3137.4
3002.2
2875.1
2735.9
2580.5
2405.0
2130.6
2001.5
2082.2
2025.7
1793.7
1638.3
1561.6
1464.8
1372.0
1279.2
1194.4
1111.7
1014.9
907.9
784.9
641.6
571.0
720.3
316.8
109.0
0.0

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