

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: P955149

Luminaire Tested: **GALN-SB8A-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955149
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-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 25689 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

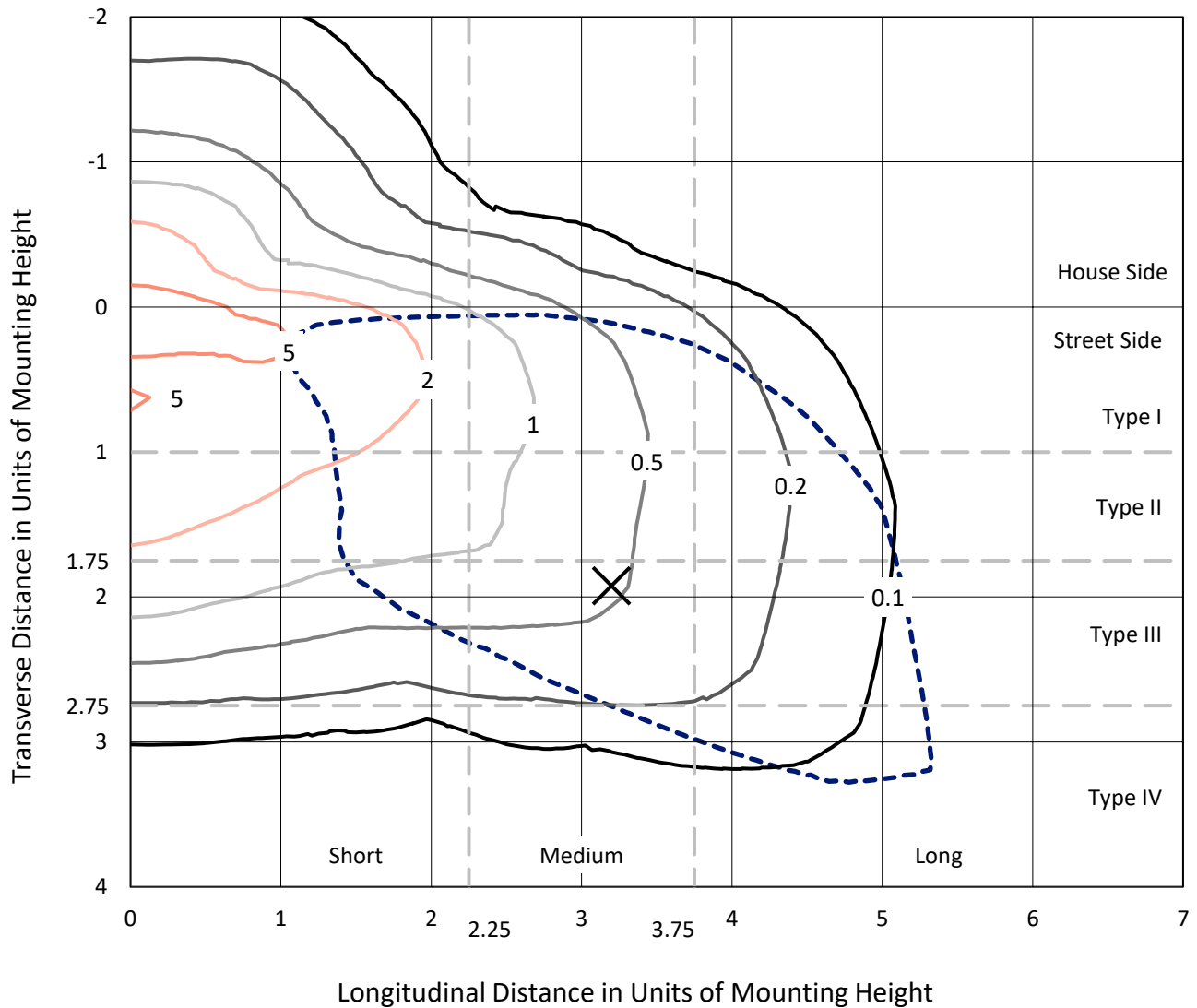
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

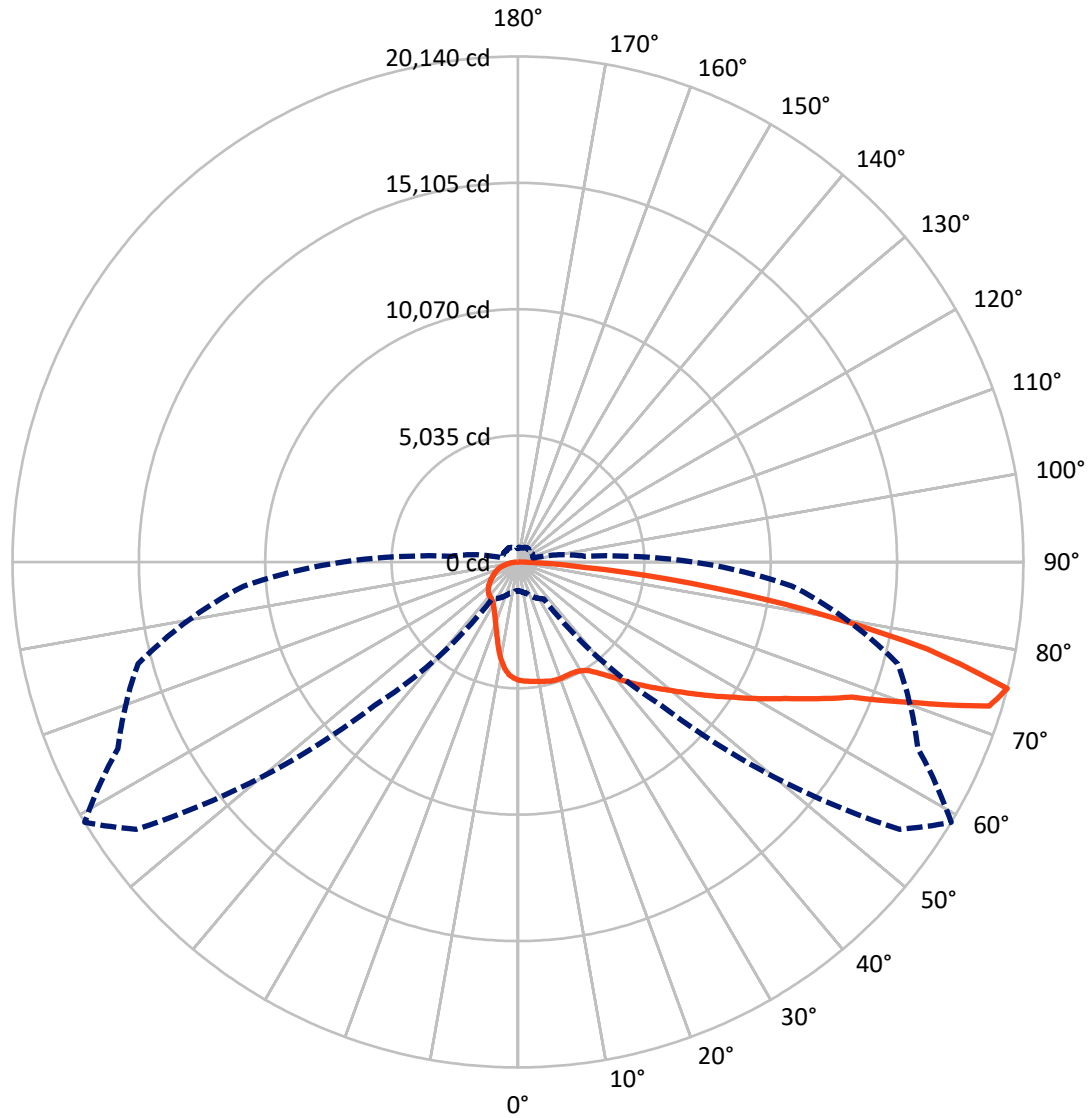
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	4818.1	0.0	4818.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20870.9	0.0	20870.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	25689.0	0.0	25689.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.6
10°-20°	1080.7	4.2
20°-30°	1641.5	6.4
30°-40°	2440.0	9.5
40°-50°	3628.7	14.1
50°-60°	4925.5	19.2
60°-70°	6013.3	23.4
70°-80°	4719.1	18.4
80°-90°	817.5	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°	25689.0	100.0
0°-180°	25689.0	100.0



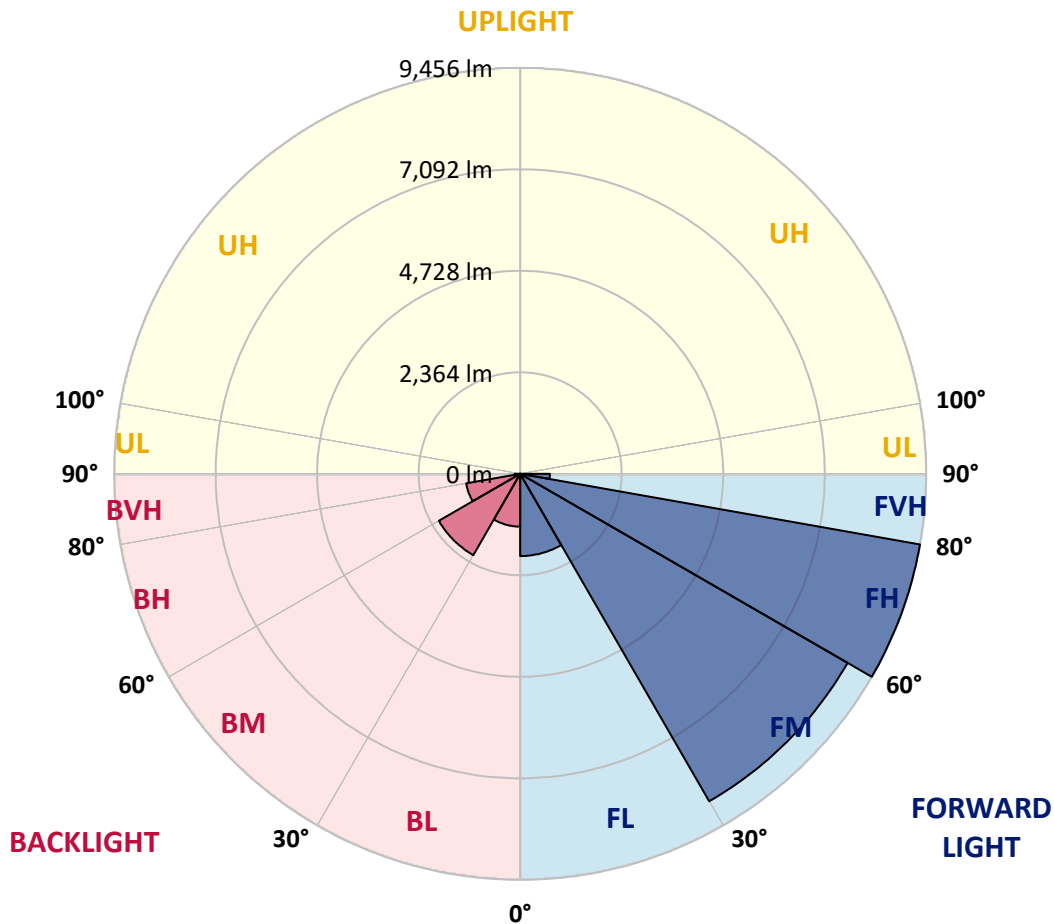
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1915.4	7.5			
FM (30°-60°)	8807.3	34.3			
FH (60°-80°)	9455.9	36.8			G4/12000
FVH (80°-90°)	692.3	2.7			G4/750
BL (0°-30°)	1229.5	4.8	B3/2500		
BM (30°-60°)	2187.0	8.5	B2/2500		
BH (60°-80°)	1276.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	125.1	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2
2.5°	4755.2	4738.7	4755.2	4748.3	4745.6	4740.0	4741.4	4751.1	4745.6	4752.5
5°	4723.5	4713.8	4730.4	4726.2	4744.2	4746.9	4764.9	4776.0	4782.9	4784.3
7.5°	4670.9	4661.3	4684.8	4704.1	4742.8	4753.9	4791.2	4809.1	4818.8	4835.4
10°	4478.8	4474.7	4532.7	4606.0	4697.2	4753.9	4810.5	4840.9	4856.1	4900.3
12.5°	4138.9	4144.4	4220.4	4361.4	4543.8	4726.2	4832.6	4876.8	4900.3	4955.6
15°	3814.1	3812.8	3895.7	4046.3	4302.0	4604.6	4843.7	4919.7	4959.8	5041.3
17.5°	3626.2	3620.7	3678.7	3793.4	4031.1	4418.0	4816.0	4943.2	5028.9	5131.1
20°	3591.6	3580.6	3611.0	3667.7	3836.2	4213.5	4744.2	4943.2	5084.1	5216.8
22.5°	3717.4	3699.4	3687.0	3680.1	3754.7	4044.9	4662.6	4926.6	5165.7	5339.8
25°	3970.3	3942.7	3879.1	3816.9	3794.8	3968.9	4590.8	4922.4	5287.3	5505.6
27.5°	4379.3	4344.8	4216.3	4067.0	3933.0	4007.6	4559.0	4947.3	5421.3	5681.1
30°	4886.5	4849.2	4687.5	4458.1	4217.7	4151.3	4599.1	5020.6	5592.7	5914.7
32.5°	5341.2	5299.7	5161.5	4928.0	4603.2	4400.1	4726.2	5160.1	5862.2	6239.4
35°	5744.7	5696.3	5572.0	5356.4	5075.8	4749.7	4955.6	5407.5	6245.0	6767.3
37.5°	6139.9	6083.3	5947.8	5719.8	5523.6	5215.4	5272.1	5725.4	6753.5	7408.5
40°	6582.2	6500.6	6336.2	6110.9	5920.2	5761.3	5688.0	6115.1	7270.4	8124.4
42.5°	7010.6	6933.2	6736.9	6544.8	6305.8	6260.2	6170.3	6571.1	7835.6	8910.7
45°	7472.1	7379.5	7141.8	6898.6	6748.0	6591.8	6637.4	7027.1	8389.7	9712.2
47.5°	7904.7	7801.0	7520.5	7249.6	7166.7	6871.0	7065.8	7528.8	8966.0	10524.8
50°	8138.2	8035.9	7802.4	7557.8	7492.8	7215.1	7530.2	8080.2	9569.9	11334.6
52.5°	8333.1	8222.5	7917.1	7781.7	7762.3	7589.6	8102.3	8710.3	10173.8	12050.5
55°	8540.4	8417.4	8027.7	7906.0	7994.5	8009.7	8780.8	9424.8	10812.3	12748.3
57.5°	8779.4	8623.3	8134.1	8011.1	8221.1	8501.7	9560.2	10165.5	11439.6	13395.1
60°	9004.7	8847.1	8338.6	8178.3	8465.7	9072.4	10454.3	11062.4	12150.0	13971.4
62.5°	9048.9	8919.0	8501.7	8500.3	8797.4	9738.5	11512.9	11967.5	12770.5	14540.7
65°	8283.3	8201.8	7954.4	8487.8	9272.8	10697.6	12691.7	13125.6	13559.5	15038.2
67.5°	6304.4	6315.4	6297.5	7327.0	8888.6	12075.3	14398.4	14365.2	14533.8	15596.5
70°	2882.7	2947.7	3370.5	5057.9	7121.1	12234.3	17220.3	16790.5	15756.8	16319.3
72.5°	1557.4	1607.2	1779.9	2450.2	4281.2	10877.2	19329.1	19634.5	17383.3	16805.7
75°	1142.9	1170.5	1290.7	1557.4	1797.9	8084.3	18573.2	20140.3	17586.5	15671.1
77.5°	855.4	867.9	966.0	1234.1	920.4	4261.9	14840.6	16679.9	15054.8	12875.5
80°	620.5	634.3	707.6	925.9	645.4	1558.8	10190.4	11707.7	10310.6	8207.3
82.5°	428.4	433.9	465.7	630.2	450.5	605.3	5782.0	6865.4	5755.8	2880.0
85°	258.4	265.3	279.2	367.6	255.7	287.4	2495.8	2581.5	1720.5	688.2
87.5°	106.4	113.3	124.4	154.8	100.9	80.2	411.8	516.8	322.0	201.8
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°
4715.2	0°	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2	4715.2
4729.0	2.5°	4722.1	4712.4	4686.1	4650.2	4617.0	4575.6	4557.6	4542.4	4528.6	4502.3
4766.3	5°	4751.1	4724.8	4654.4	4563.1	4459.5	4346.2	4235.6	4159.6	4094.7	4046.3
4809.1	7.5°	4795.3	4745.6	4617.0	4430.5	4192.8	3949.6	3729.8	3573.7	3456.2	3413.4
4869.9	10°	4840.9	4781.5	4557.6	4228.7	3818.3	3443.8	3152.2	2991.9	2897.9	2867.5
4941.8	12.5°	4894.8	4807.7	4465.0	3948.2	3399.6	2989.1	2734.8	2640.9	2592.5	2575.9
5030.2	15°	4973.6	4829.9	4325.5	3597.2	3000.2	2657.5	2493.0	2428.1	2403.2	2401.8
5121.4	17.5°	5033.0	4834.0	4108.5	3221.3	2693.4	2457.1	2321.6	2296.8	2313.4	2338.2
5211.3	20°	5099.3	4796.7	3823.8	2878.6	2477.8	2281.6	2224.9	2241.5	2281.6	2317.5
5330.1	22.5°	5146.3	4729.0	3479.7	2611.9	2291.2	2180.7	2177.9	2212.5	2234.6	2252.6
5469.7	25°	5187.8	4614.3	3114.9	2388.0	2137.9	2119.9	2150.3	2139.2	2124.0	2139.2
5609.3	27.5°	5218.2	4433.2	2788.7	2191.7	2030.1	2078.4	2060.5	2035.6	2034.2	2042.5
5773.7	30°	5208.5	4191.4	2520.6	2005.2	1954.1	2001.0	1958.2	1954.1	1949.9	1954.1
6021.1	32.5°	5208.5	3916.4	2314.7	1876.7	1905.7	1887.7	1883.6	1873.9	1857.3	1855.9
6356.9	35°	5237.5	3641.4	2137.9	1807.6	1865.6	1822.8	1825.5	1802.0	1767.5	1750.9
6801.9	37.5°	5297.0	3420.3	1962.3	1774.4	1795.1	1793.8	1782.7	1742.6	1681.8	1629.3
7357.4	40°	5440.7	3355.3	1842.1	1759.2	1762.0	1778.5	1749.5	1672.1	1533.9	1448.3
7921.2	42.5°	5665.9	3464.5	1815.9	1721.9	1739.9	1756.4	1699.8	1520.1	1422.0	1370.9
8512.7	45°	5952.0	3655.2	1872.5	1668.0	1687.3	1716.4	1547.8	1462.1	1417.9	1419.2
9098.7	47.5°	6314.1	3855.6	1977.5	1621.0	1611.3	1627.9	1446.9	1394.4	1333.6	1348.8
9661.1	50°	6732.8	4058.7	2077.0	1557.4	1527.0	1473.1	1381.9	1332.2	1254.8	1218.9
10204.2	52.5°	7186.1	4255.0	2117.1	1480.1	1435.8	1373.6	1337.7	1276.9	1182.9	1123.5
10716.9	55°	7615.8	4433.2	2072.9	1387.5	1344.6	1296.3	1290.7	1253.4	1152.5	1069.6
11172.9	57.5°	8022.1	4582.5	1962.3	1293.5	1252.0	1223.0	1260.3	1242.4	1115.2	1008.8
11604.1	60°	8366.2	4684.8	1802.0	1198.1	1169.1	1153.9	1210.6	1205.0	1062.7	943.9
11991.0	62.5°	8639.9	4724.8	1625.2	1106.9	1100.0	1072.4	1141.5	1141.5	996.4	880.3
12331.0	65°	8854.1	4686.1	1445.5	1017.1	1030.9	989.5	1057.2	1048.9	925.9	823.6
12722.1	67.5°	9043.4	4559.0	1246.5	928.7	960.4	907.9	968.7	949.4	848.5	767.0
13060.7	70°	9127.7	4263.3	1019.9	840.2	878.9	827.8	880.3	844.4	761.4	706.2
12688.9	72.5°	8450.5	3543.3	802.9	747.6	780.8	739.3	784.9	743.5	667.5	642.6
10957.4	75°	6991.2	2658.8	617.7	646.7	671.6	639.8	670.2	639.8	570.7	588.7
8094.0	77.5°	5077.2	1795.1	472.6	540.3	551.4	534.8	561.1	526.5	464.3	460.2
4033.9	80°	2524.8	1051.7	370.4	427.0	422.9	411.8	442.2	425.6	373.1	395.2
1089.0	82.5°	731.0	450.5	269.5	299.9	291.6	294.4	316.5	324.8	486.4	482.3
338.6	85°	229.4	176.9	161.7	167.2	158.9	163.1	186.6	370.4	342.7	200.4
105.0	87.5°	59.4	60.8	40.1	42.8	44.2	52.5	59.4	225.3	107.8	70.5
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>
4715.2
4489.9
4006.2
3338.8
2820.5
2580.1
2407.3
2347.9
2329.9
2262.2
2148.9
2056.3
1969.3
1873.9
1767.5
1647.3
1459.3
1370.9
1426.2
1387.5
1228.5
1122.1
1069.6
1003.3
939.7
876.1
818.1
761.4
695.1
621.9
537.6
439.5
391.1
493.4
217.0
74.6
0.0

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