

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: P950787

Luminaire Tested: **GALN-SB5A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22076 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

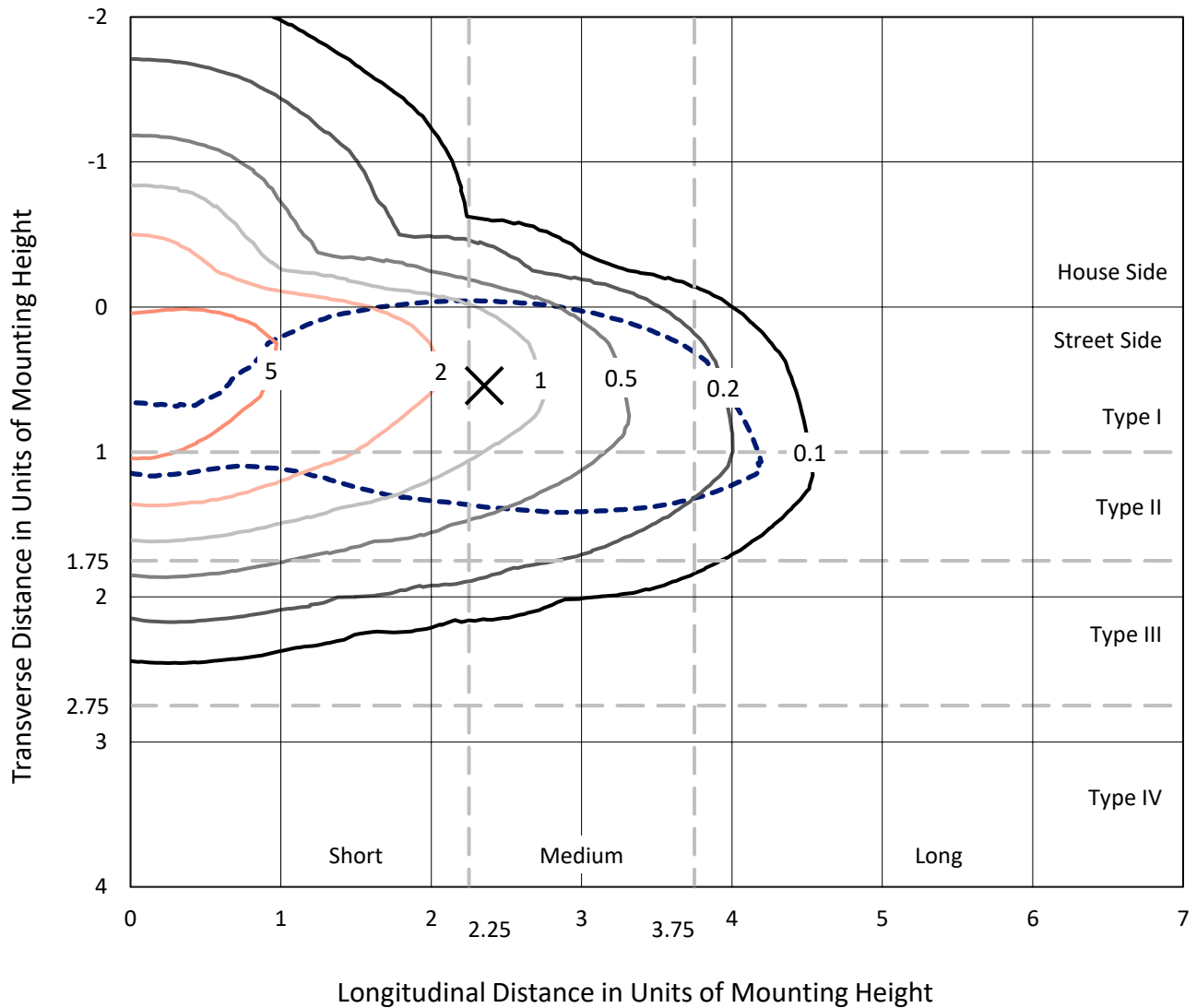
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

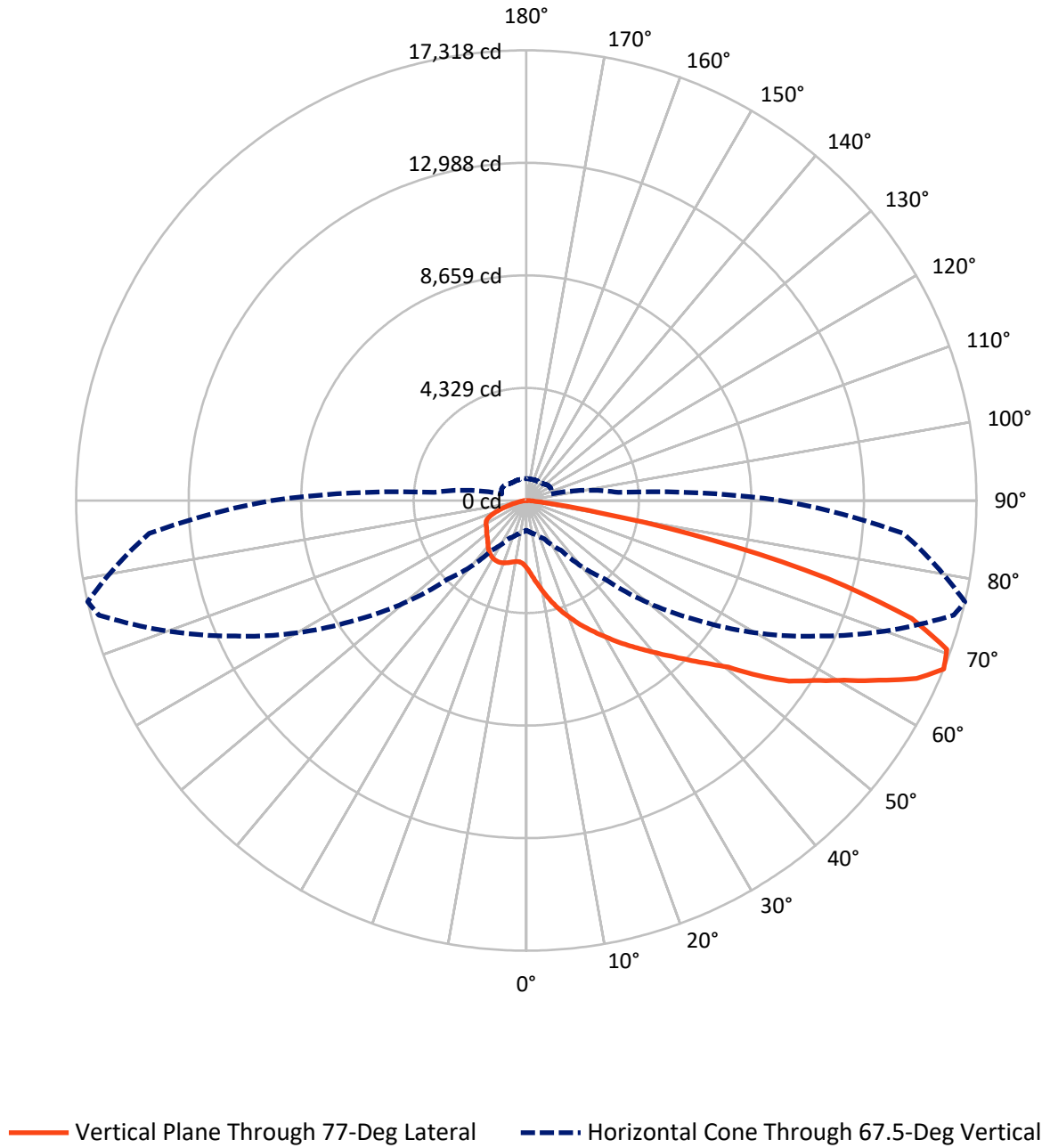
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4175.9	0.0	4175.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17900.1	0.0	17900.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	22076.0	0.0	22076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.3
10°-20°	997.4	4.5
20°-30°	1883.2	8.5
30°-40°	3033.9	13.7
40°-50°	4149.8	18.8
50°-60°	4681.0	21.2
60°-70°	4369.1	19.8
70°-80°	2395.0	10.8
80°-90°	288.9	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°	22076.0	100.0
0°-180°	22076.0	100.0



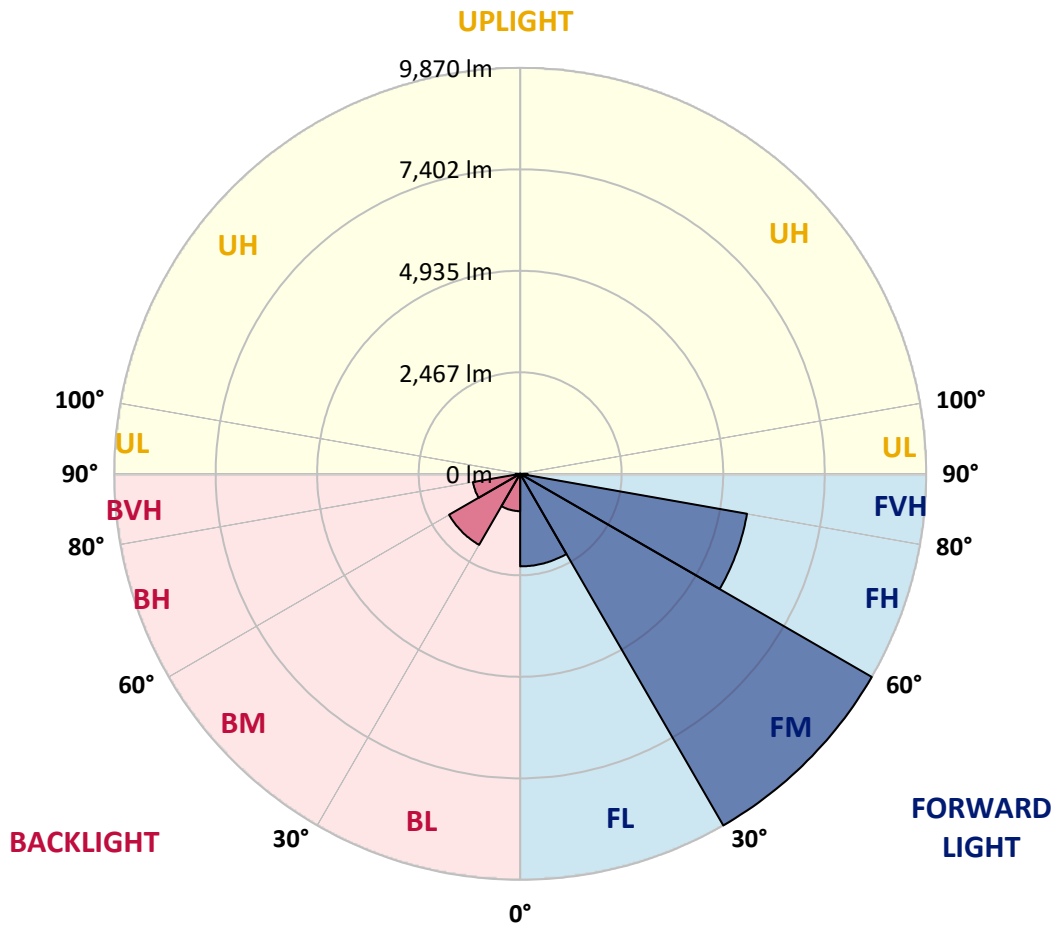
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.4	10.2			
FM (30°-60°)	9869.9	44.7			
FH (60°-80°)	5599.1	25.4			G3/7500
FVH (80°-90°)	180.7	0.8			G2/225
BL (0°-30°)	907.9	4.1	B2/1000		
BM (30°-60°)	1994.7	9.0	B2/2500		
BH (60°-80°)	1165.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	108.2	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2
2.5°	3243.2	3266.0	3237.5	3237.5	3141.7	3091.6	2995.9	2922.9	2791.9	2769.1
5°	3833.5	3861.9	3822.1	3805.0	3692.1	3588.4	3427.8	3269.4	3035.8	3011.8
7.5°	4290.4	4326.9	4291.6	4273.3	4173.0	4056.8	3868.8	3647.7	3318.4	3271.7
10°	4663.0	4668.7	4657.3	4664.2	4585.6	4489.8	4297.2	4039.7	3628.3	3564.5
12.5°	4873.9	4900.1	4922.9	4963.9	4950.2	4891.0	4717.7	4410.1	3956.5	3874.5
15°	4973.0	5018.6	5069.9	5164.4	5240.8	5255.6	5123.4	4807.8	4290.4	4191.3
17.5°	5008.3	5051.6	5132.5	5269.3	5433.4	5543.9	5484.7	5194.1	4620.9	4506.9
20°	5187.2	5199.8	5248.8	5378.7	5556.5	5739.9	5784.4	5565.6	4947.9	4819.2
22.5°	5570.1	5545.1	5558.7	5618.0	5745.6	5923.4	6024.8	5893.8	5284.1	5136.0
25°	6202.6	6129.6	6056.7	5988.3	6053.3	6153.6	6268.7	6222.0	5636.2	5448.2
27.5°	7001.4	6912.5	6751.8	6527.4	6448.7	6484.0	6535.3	6526.2	5962.1	5771.8
30°	7787.7	7684.0	7492.6	7167.8	6960.4	6866.9	6828.2	6802.0	6316.5	6113.7
32.5°	8415.6	8333.5	8145.5	7782.0	7481.2	7321.6	7192.8	7099.4	6686.9	6484.0
35°	8964.9	8888.5	8673.1	8276.6	7949.5	7779.7	7611.1	7411.6	7072.1	6866.9
37.5°	9466.3	9389.9	9094.8	8682.2	8352.9	8235.5	8085.1	7746.7	7458.4	7264.6
40°	9783.0	9766.0	9490.2	9023.0	8681.1	8623.0	8572.8	8135.3	7886.8	7706.8
42.5°	9864.0	9901.6	9682.8	9298.7	8972.8	8926.1	9043.5	8575.1	8367.7	8195.7
45°	9669.1	9777.4	9633.8	9372.8	9180.2	9155.2	9460.6	9056.0	8899.9	8742.6
47.5°	9175.7	9359.1	9299.9	9263.4	9236.1	9344.3	9827.5	9566.5	9502.7	9366.0
50°	8179.7	8527.3	8631.0	8861.2	9125.5	9491.3	10161.4	10123.8	10207.0	10069.1
52.5°	6457.8	6936.5	7538.1	8114.7	8785.9	9442.3	10528.3	10923.7	11274.7	11199.5
55°	5330.8	5546.2	6008.9	7066.4	8127.3	9236.1	10693.6	11569.9	12334.5	12267.3
57.5°	4464.8	4657.3	4942.2	5825.4	7131.3	8767.7	10796.1	11964.2	13060.4	13053.6
60°	3536.0	3740.0	4031.7	4657.3	5967.8	7958.6	10773.3	12413.1	13986.9	14043.8
62.5°	2487.6	2712.1	3035.8	3619.2	4779.3	6910.2	10308.4	12737.9	15077.4	15232.4
65°	1635.3	1783.4	2027.3	2530.9	3561.1	5562.2	9420.7	12780.1	16244.3	16506.4
67.5°	1146.4	1203.4	1346.9	1620.4	2347.5	4265.3	8006.5	12343.6	17022.6	17317.8
70°	894.5	923.0	996.0	1105.4	1474.6	2868.3	6135.3	11208.6	16856.2	17163.9
72.5°	772.6	800.0	827.3	841.0	989.1	1770.9	4155.9	9371.7	15289.4	15497.9
75°	700.8	707.7	730.5	725.9	754.4	1148.7	2398.8	6828.2	12063.3	11991.5
77.5°	589.1	598.3	635.9	630.2	670.1	785.2	1245.5	4406.6	7820.7	7333.0
80°	499.1	503.7	544.7	537.9	582.3	568.6	635.9	2246.1	3317.2	2810.1
82.5°	173.2	214.2	415.9	428.5	444.4	344.1	366.9	916.2	1013.1	776.0
85°	84.3	90.0	212.0	300.8	299.7	173.2	178.9	327.1	319.1	250.7
87.5°	13.7	17.1	25.1	117.4	93.4	45.6	61.5	63.8	66.1	57.0
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°
2590.2	0°	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2	2590.2
2682.5	2.5°	2618.7	2561.7	2442.1	2331.5	2244.9	2161.7	2115.0	2075.1	2052.3	2047.8
2807.9	5°	2689.3	2572.0	2354.3	2170.8	2051.2	1962.3	1915.6	1886.0	1871.1	1862.0
2976.5	7.5°	2790.8	2618.7	2308.7	2100.2	1974.8	1911.0	1887.1	1882.5	1881.4	1882.5
3180.5	10°	2930.9	2695.0	2304.2	2083.1	1978.3	1942.9	1941.8	1942.9	1947.5	1948.6
3402.7	12.5°	3082.5	2773.7	2322.4	2097.9	2021.6	2002.2	1998.8	1997.6	2001.1	2003.3
3627.2	15°	3247.7	2877.4	2353.2	2129.8	2069.4	2048.9	2045.5	2038.7	2037.5	2036.4
3863.1	17.5°	3417.5	2979.9	2387.4	2164.0	2100.2	2071.7	2059.2	2043.2	2030.7	2027.3
4106.9	20°	3589.6	3081.3	2411.3	2181.1	2102.5	2062.6	2037.5	2010.2	1988.5	1976.0
4353.1	22.5°	3773.1	3187.3	2426.1	2176.5	2082.0	2027.3	1981.7	1949.8	1916.7	1895.1
4601.5	25°	3952.0	3279.6	2425.0	2152.6	2042.1	1972.6	1914.4	1873.4	1827.8	1805.0
4857.9	27.5°	4124.0	3362.8	2396.5	2110.4	1985.1	1907.6	1838.1	1789.1	1744.7	1723.0
5116.6	30°	4301.8	3432.3	2352.0	2048.9	1917.9	1832.4	1756.0	1713.9	1674.0	1653.5
5390.1	32.5°	4478.4	3496.1	2289.4	1972.6	1840.4	1758.3	1683.1	1644.4	1620.4	1620.4
5684.1	35°	4665.3	3540.6	2206.2	1883.7	1758.3	1679.7	1620.4	1597.7	1595.4	1581.7
5995.2	37.5°	4862.5	3569.1	2104.8	1792.5	1677.4	1603.3	1585.1	1557.8	1535.0	1505.3
6337.0	40°	5069.9	3597.6	1982.8	1697.9	1592.0	1550.9	1543.0	1506.5	1441.5	1368.6
6724.5	42.5°	5321.7	3616.9	1856.3	1603.3	1501.9	1488.3	1499.6	1437.0	1333.3	1278.6
7191.7	45°	5613.4	3648.8	1740.1	1509.9	1409.6	1409.6	1457.5	1375.4	1290.0	1255.8
7725.0	47.5°	5991.8	3722.9	1631.8	1407.3	1324.2	1346.9	1364.0	1301.4	1253.5	1211.3
8374.6	50°	6538.7	3900.7	1520.2	1303.6	1259.2	1304.8	1280.9	1244.4	1188.6	1154.4
9407.0	52.5°	7217.9	4005.5	1421.0	1210.2	1203.4	1248.9	1214.8	1180.6	1138.4	1092.8
10189.9	55°	7680.6	4024.9	1337.8	1141.8	1165.8	1161.2	1148.7	1117.9	1095.1	1034.7
10962.5	57.5°	8197.9	4063.6	1269.5	1100.8	1141.8	1091.7	1087.1	1060.9	1031.3	990.3
11904.9	60°	8816.7	4124.0	1210.2	1084.9	1121.3	1046.1	1023.3	1013.1	983.4	962.9
13038.7	62.5°	9491.3	4178.7	1149.8	1087.1	1097.4	1001.7	967.5	964.1	945.8	939.0
14103.1	65°	9951.7	4029.5	1074.6	1084.9	1059.8	956.1	912.8	911.6	896.8	894.5
14564.6	67.5°	9791.0	3556.5	973.2	1052.9	1021.0	910.5	862.6	858.1	838.7	839.8
14082.6	70°	8986.5	2881.9	833.0	974.3	973.2	869.5	810.2	795.4	769.2	773.8
12244.5	72.5°	7477.7	2135.5	645.0	843.3	896.8	831.9	749.8	725.9	692.8	697.4
9038.9	75°	5400.3	1451.8	469.5	641.6	780.6	787.4	690.6	649.5	609.7	616.5
5031.1	77.5°	2763.4	822.8	345.3	442.1	613.1	715.6	637.0	582.3	573.2	637.0
1450.6	80°	901.4	412.5	239.3	310.0	402.3	585.7	558.4	495.7	493.4	508.2
304.3	82.5°	268.9	174.4	153.8	204.0	222.2	449.0	482.0	374.9	322.5	339.6
101.4	85°	92.3	84.3	87.7	101.4	106.0	263.2	337.3	248.4	234.7	258.7
22.8	87.5°	21.7	29.6	25.1	22.8	22.8	63.8	131.0	103.7	143.6	95.7
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>
2590.2
2047.8
1860.9
1886.0
1949.8
2004.5
2035.2
2030.7
1980.5
1896.2
1805.0
1721.9
1652.3
1621.6
1578.3
1500.8
1358.3
1279.7
1261.5
1210.2
1150.9
1083.7
1035.9
976.6
968.6
939.0
893.4
839.8
778.3
696.3
618.8
627.9
436.4
351.0
255.3
92.3
0.0

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