

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: P940845

Luminaire Tested: **GALN-SB4A-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16523 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

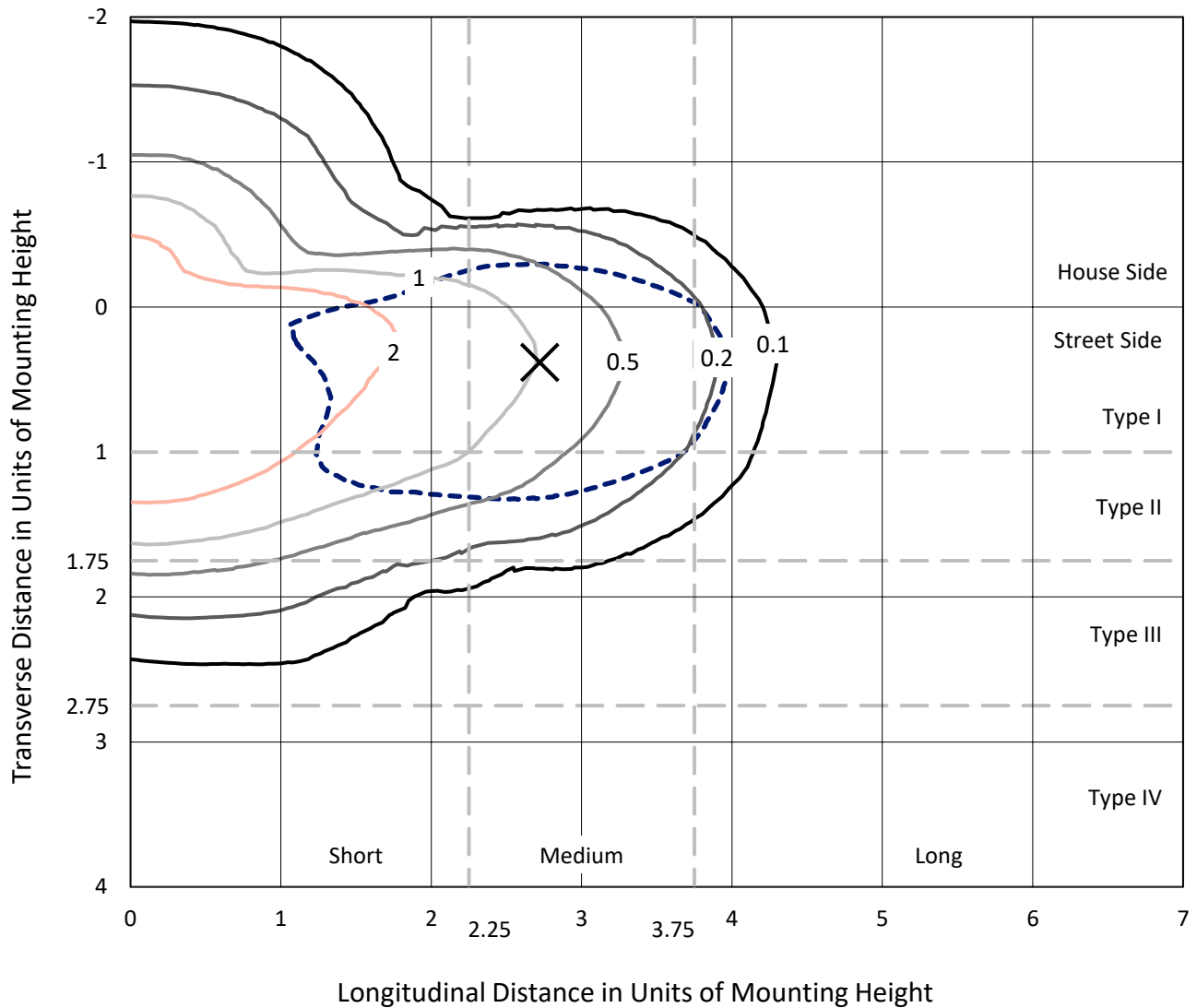
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

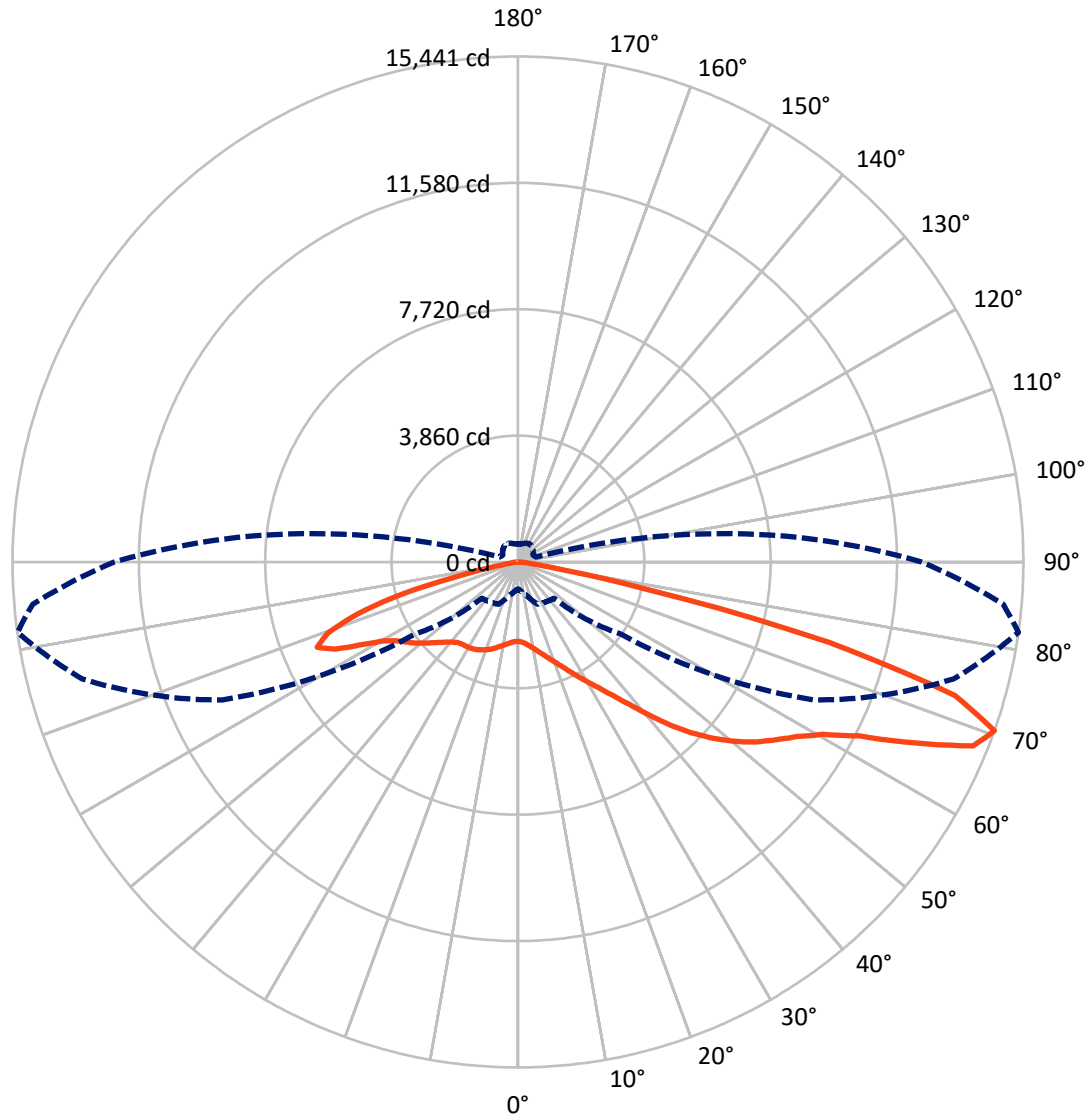
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4073.3	0.0	4073.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12449.7	0.0	12449.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	16523.0	0.0	16523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	1.4
10°-20°	657.1	4.0
20°-30°	1099.3	6.7
30°-40°	1717.4	10.4
40°-50°	2735.2	16.6
50°-60°	3806.4	23.0
60°-70°	3981.7	24.1
70°-80°	2081.0	12.6
80°-90°	216.1	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°	16523.0	100.0
0°-180°	16523.0	100.0

Coefficient of Utilization



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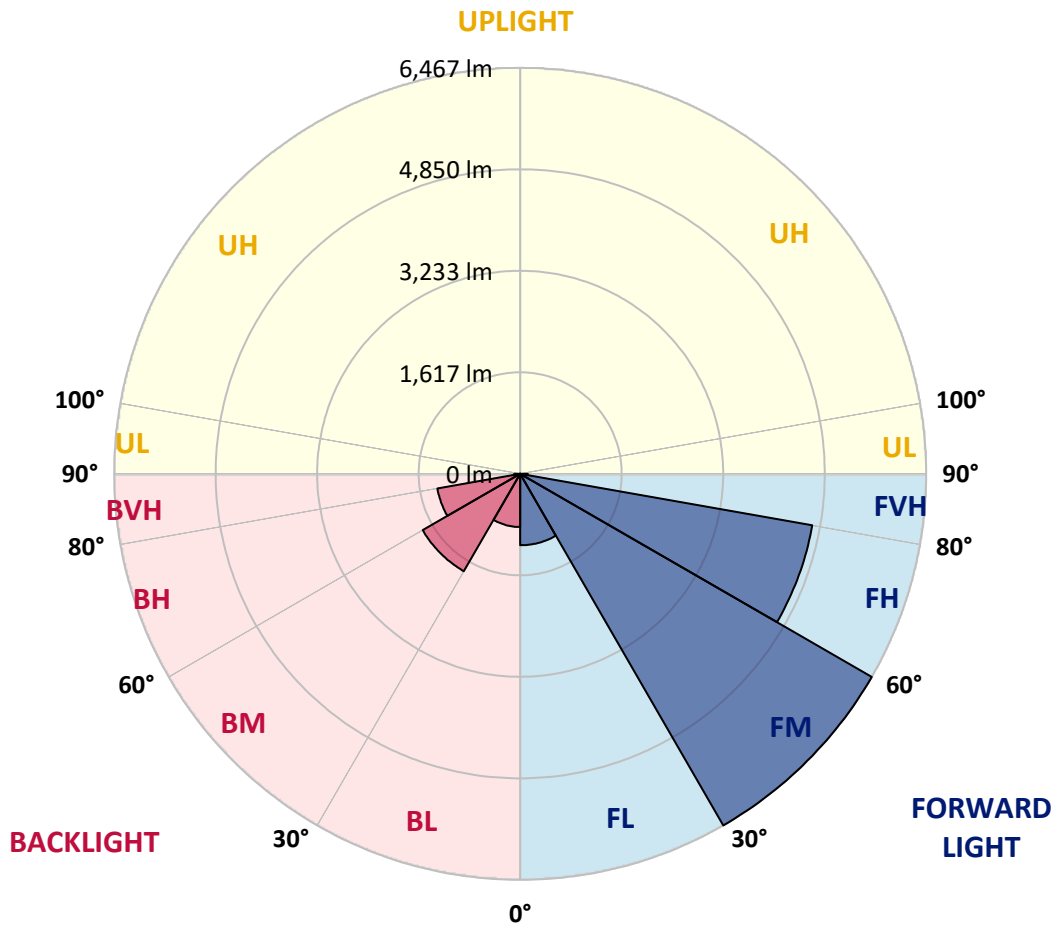
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.8	6.9			
FM (30°-60°)	6466.9	39.1			
FH (60°-80°)	4724.0	28.6			G2/5000
FVH (80°-90°)	121.0	0.7			G2/225
BL (0°-30°)	847.4	5.1	B2/1000		
BM (30°-60°)	1792.1	10.8	B2/2500		
BH (60°-80°)	1338.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.6			G1/100
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°	82°
0°	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5
2.5°	2480.3	2494.4	2490.0	2485.6	2485.6	2479.5	2478.6	2469.8	2462.8	2451.4
5°	2511.9	2526.8	2525.1	2528.6	2540.0	2542.6	2545.2	2540.0	2525.9	2511.9
7.5°	2483.9	2500.5	2505.8	2526.8	2561.9	2593.4	2617.1	2626.8	2613.6	2593.4
10°	2389.2	2407.6	2426.0	2476.0	2538.2	2612.7	2675.9	2713.6	2710.9	2691.6
12.5°	2197.2	2216.4	2255.9	2353.2	2467.2	2598.7	2716.2	2795.1	2822.3	2808.3
15°	2043.7	2060.4	2090.2	2190.1	2338.3	2538.2	2731.1	2884.5	2953.8	2945.9
17.5°	2039.3	2046.3	2064.8	2112.1	2226.1	2443.5	2715.3	2972.2	3104.6	3103.7
20°	2116.5	2119.1	2129.6	2139.3	2204.2	2371.6	2675.0	3045.0	3273.8	3273.8
22.5°	2223.5	2221.7	2232.2	2223.5	2255.0	2365.5	2649.6	3109.0	3462.3	3476.3
25°	2383.9	2375.1	2372.5	2352.3	2358.5	2422.5	2677.6	3181.7	3685.9	3714.8
27.5°	2597.8	2583.8	2574.2	2527.7	2511.9	2540.0	2763.5	3269.4	3934.9	3984.9
30°	2876.6	2851.2	2837.2	2756.5	2699.5	2703.9	2893.3	3386.0	4195.3	4275.9
32.5°	3257.2	3217.7	3180.0	3047.6	2943.3	2909.1	3060.8	3547.4	4477.6	4606.5
35°	3683.3	3651.7	3611.4	3407.1	3246.6	3167.7	3287.0	3772.7	4808.1	5012.4
37.5°	4093.6	4066.4	4085.7	3810.4	3603.5	3488.6	3583.3	4075.2	5215.8	5517.4
40°	4517.9	4496.9	4499.5	4236.5	3995.4	3866.5	3942.8	4454.8	5683.1	6118.0
42.5°	4979.1	4963.3	4910.7	4677.5	4406.6	4286.5	4356.6	4893.2	6184.6	6801.9
45°	5495.5	5485.9	5436.8	5169.4	4859.0	4724.0	4818.7	5377.1	6688.8	7445.4
47.5°	5941.8	5949.7	5943.5	5718.2	5396.4	5198.3	5311.4	5882.2	7157.8	8050.4
50°	6156.6	6197.8	6258.3	6188.1	5988.2	5786.6	5808.5	6369.6	7605.0	8617.6
52.5°	6044.4	6122.4	6287.2	6399.4	6476.6	6434.5	6375.8	6853.6	8025.8	9129.7
55°	5626.1	5735.7	6009.3	6280.2	6673.9	6979.9	7057.0	7390.2	8436.2	9580.3
57.5°	4864.2	5042.2	5287.7	5835.7	6498.5	7243.8	7851.4	8134.5	8871.0	10061.7
60°	3557.9	3796.4	4101.5	4916.9	5884.8	7102.6	8527.3	9277.8	9489.1	10685.0
62.5°	2276.9	2424.2	2704.8	3472.8	4585.4	6379.3	8734.2	10707.0	10536.9	11707.3
65°	1558.9	1653.6	1910.5	2341.8	2964.3	4748.5	8180.1	11778.3	12200.9	13327.6
67.5°	1132.8	1204.7	1423.9	1801.7	1931.5	2810.0	6347.7	11729.2	13818.6	14996.9
70°	825.9	876.8	1060.9	1423.9	1486.1	1563.3	3845.5	9970.5	13783.5	15440.6
72.5°	612.0	647.0	770.7	1104.7	1202.9	1055.6	1903.4	7246.4	11844.1	13965.9
75°	442.8	469.1	560.2	845.2	962.7	804.0	949.5	4234.7	8261.7	9824.1
77.5°	338.4	358.6	418.2	619.0	770.7	603.2	589.2	1948.2	3917.3	3936.6
80°	271.8	284.9	317.4	435.7	590.9	451.5	384.0	786.5	1238.0	1047.7
82.5°	199.9	221.8	268.3	306.0	422.6	311.2	234.1	397.2	470.8	405.1
85°	114.0	128.9	162.2	219.2	270.0	190.3	134.1	176.2	219.2	179.7
87.5°	40.3	52.6	57.0	85.9	117.5	78.9	51.7	50.9	71.9	53.5
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°
2422.5	0°	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5	2422.5
2448.8	2.5°	2440.0	2435.6	2418.1	2394.4	2369.9	2346.2	2338.3	2321.7	2310.3	2304.1
2505.8	5°	2489.1	2475.1	2433.9	2381.3	2326.0	2266.4	2224.3	2185.8	2157.7	2131.4
2583.8	7.5°	2559.3	2534.7	2463.7	2371.6	2273.4	2174.4	2100.7	2044.6	2006.9	1982.3
2675.0	10°	2640.8	2603.1	2494.4	2356.7	2205.0	2063.0	1976.2	1928.0	1904.3	1891.2
2779.3	12.5°	2734.6	2681.1	2525.9	2322.5	2100.7	1938.5	1878.9	1864.9	1865.7	1866.6
2910.8	15°	2850.3	2775.8	2551.4	2248.0	1964.8	1842.9	1832.4	1855.2	1878.9	1890.3
3059.9	17.5°	2981.0	2875.8	2555.7	2125.3	1831.5	1781.6	1814.9	1864.0	1899.9	1915.7
3226.5	20°	3121.3	2977.5	2524.2	1951.7	1721.9	1731.6	1791.2	1854.3	1893.8	1914.0
3416.7	22.5°	3281.7	3086.2	2448.8	1769.3	1632.5	1677.2	1747.4	1808.7	1850.0	1870.1
3640.3	25°	3464.9	3208.1	2330.4	1615.9	1555.4	1615.9	1686.0	1736.9	1770.2	1788.6
3890.2	27.5°	3668.3	3335.2	2172.6	1494.0	1487.9	1552.7	1610.6	1650.1	1667.6	1681.6
4155.8	30°	3872.6	3450.9	1981.5	1401.9	1429.1	1490.5	1531.7	1549.2	1554.5	1557.1
4452.2	32.5°	4093.6	3550.9	1780.7	1325.7	1373.0	1430.0	1454.5	1462.4	1437.9	1421.2
4811.6	35°	4361.0	3657.8	1584.3	1265.2	1317.8	1366.9	1374.8	1367.7	1338.8	1304.6
5262.3	37.5°	4691.5	3791.1	1427.4	1222.2	1266.0	1298.5	1288.8	1287.1	1289.7	1249.4
5804.1	40°	5096.6	3964.7	1312.5	1188.9	1224.0	1231.0	1203.8	1218.7	1231.8	1170.5
6398.6	42.5°	5546.4	4174.2	1239.7	1166.1	1188.9	1172.2	1130.1	1146.8	1145.0	1064.4
6995.6	45°	6004.9	4402.2	1214.3	1149.4	1156.4	1123.1	1076.7	1081.0	1044.2	971.4
7568.2	47.5°	6460.8	4646.8	1230.1	1135.4	1116.1	1078.4	1042.5	1023.2	968.8	914.5
8117.0	50°	6908.0	4903.7	1288.0	1107.3	1060.9	1039.0	1012.7	978.5	920.6	874.1
8636.1	52.5°	7322.7	5162.3	1352.8	1060.9	991.6	1004.8	988.1	948.7	891.7	844.3
9127.0	55°	7715.5	5421.0	1378.3	996.9	926.7	975.0	965.3	892.5	824.2	785.6
9640.8	57.5°	8143.3	5732.2	1350.2	915.3	874.1	940.8	903.9	823.3	783.8	754.9
10309.8	60°	8736.0	6220.6	1289.7	814.5	824.2	889.9	826.8	793.5	750.5	718.1
11312.8	62.5°	9720.6	7131.5	1192.4	714.6	765.4	814.5	790.0	756.6	712.8	681.2
13027.7	65°	11176.0	8397.6	1009.1	636.5	699.7	740.9	750.5	717.2	671.6	638.3
14530.5	67.5°	12403.5	9191.9	763.7	571.6	632.1	681.2	708.4	676.0	627.8	595.3
14882.1	70°	12336.0	8615.0	583.0	507.6	572.5	622.5	657.6	632.1	580.4	549.7
13517.8	72.5°	10956.8	7206.9	471.7	442.8	512.0	561.1	603.2	583.9	531.3	501.5
9903.0	75°	8049.5	5115.9	377.0	377.0	436.6	497.1	543.6	531.3	483.1	462.1
4157.6	77.5°	3393.0	2146.3	295.5	313.0	363.0	427.0	484.8	489.2	447.1	473.4
1099.5	80°	902.2	591.8	225.3	246.4	284.9	352.5	421.7	420.0	374.4	349.8
408.6	82.5°	343.7	233.2	160.4	173.6	206.0	270.0	334.0	344.6	299.0	258.6
160.4	85°	132.4	100.0	99.1	104.3	120.1	178.9	252.5	261.3	225.3	191.1
44.7	87.5°	34.2	29.8	36.8	35.1	55.2	95.6	144.7	149.9	137.7	79.8
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>
2422.5
2311.1
2141.9
1987.6
1894.7
1868.4
1889.4
1919.2
1919.2
1875.4
1793.8
1686.9
1563.3
1426.5
1306.4
1252.0
1172.2
1063.5
974.1
914.5
870.6
845.2
782.1
752.3
716.3
681.2
640.0
596.2
552.4
501.5
455.9
429.6
325.3
258.6
197.3
114.0
0.0

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