

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: P949636

Luminaire Tested: **GALN-SB4B-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20146 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

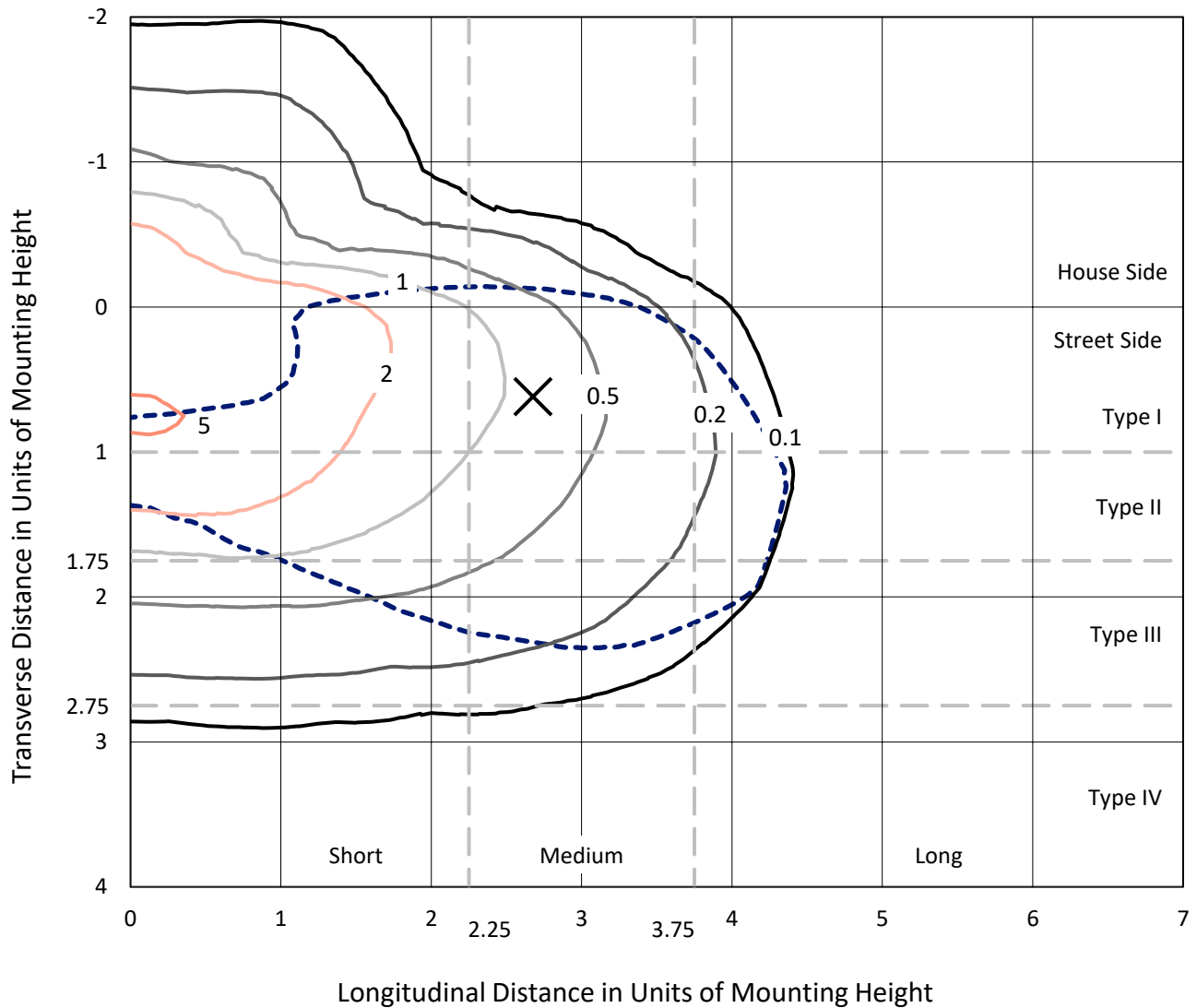
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

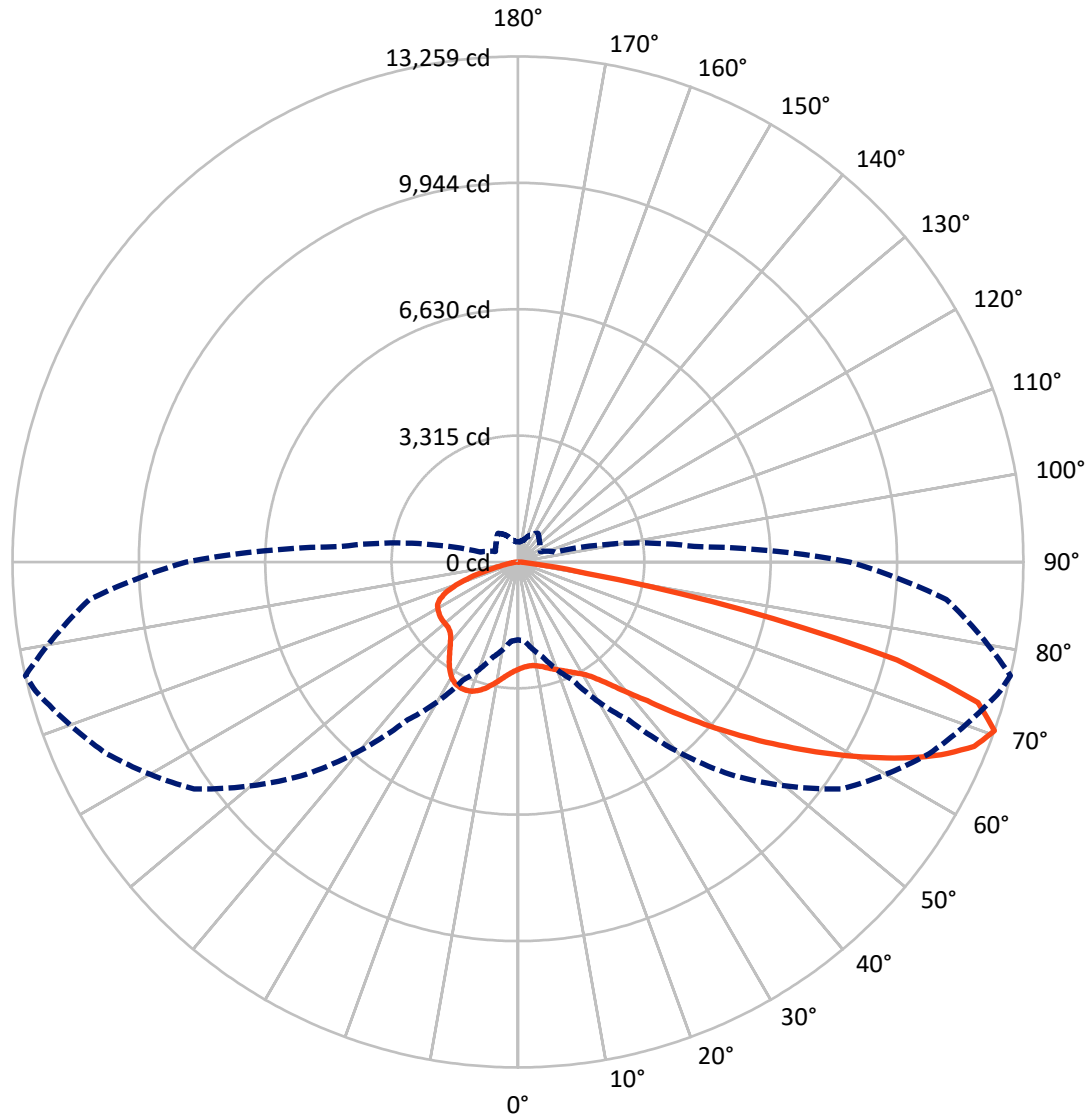
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4411.7	0.0	4411.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15734.3	0.0	15734.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	20146.0	0.0	20146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.1	1.3
10°-20°	773.6	3.8
20°-30°	1323.0	6.6
30°-40°	2127.5	10.6
40°-50°	3321.6	16.5
50°-60°	4436.9	22.0
60°-70°	4729.0	23.5
70°-80°	2911.2	14.5
80°-90°	255.1	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°	20146.0	100.0
0°-180°	20146.0	100.0



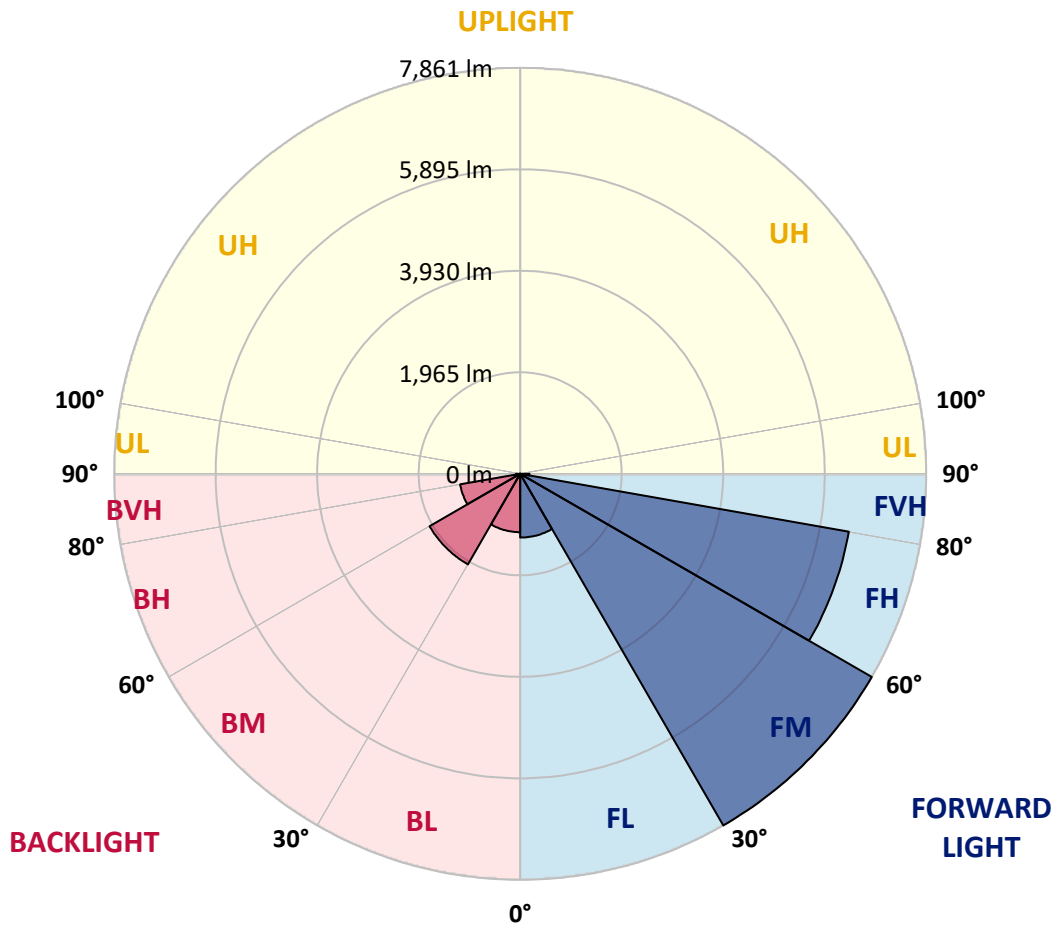
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.3	6.1			
FM (30°-60°)	7860.5	39.0			
FH (60°-80°)	6461.2	32.1			G3/7500
FVH (80°-90°)	178.4	0.9			G2/225
BL (0°-30°)	1130.4	5.6	B3/2500		
BM (30°-60°)	2025.5	10.1	B2/2500		
BH (60°-80°)	1179.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	76.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6
2.5°	2590.8	2589.8	2603.2	2607.3	2632.1	2649.6	2682.6	2717.7	2763.1	2768.2
5°	2441.2	2441.2	2456.7	2473.2	2505.1	2540.2	2590.8	2651.7	2730.1	2742.5
7.5°	2314.3	2322.5	2335.9	2367.9	2405.1	2455.6	2533.0	2619.7	2722.9	2742.5
10°	2212.1	2221.4	2237.9	2263.7	2319.4	2389.6	2490.7	2602.1	2740.4	2771.3
12.5°	2180.1	2189.4	2198.7	2218.3	2269.9	2352.4	2473.2	2610.4	2782.7	2813.6
15°	2254.4	2265.8	2258.6	2253.4	2280.2	2355.5	2481.4	2640.3	2835.3	2879.7
17.5°	2425.7	2429.8	2413.3	2364.8	2360.7	2400.9	2520.6	2681.6	2901.3	2949.8
20°	2702.2	2695.0	2660.9	2565.0	2510.3	2502.1	2587.7	2743.5	2969.4	3021.0
22.5°	3077.8	3069.5	3001.4	2849.8	2728.0	2647.5	2684.7	2824.0	3045.8	3103.6
25°	3546.2	3534.9	3434.8	3228.4	3039.6	2840.5	2816.7	2930.2	3139.7	3193.3
27.5°	4093.0	4083.8	3975.4	3703.0	3430.6	3104.6	2980.8	3055.1	3237.7	3298.6
30°	4681.2	4708.0	4516.1	4223.0	3878.4	3449.2	3201.6	3208.8	3364.6	3419.3
32.5°	5372.4	5418.9	5187.8	4816.3	4345.8	3823.8	3480.2	3423.4	3549.3	3594.7
35°	6057.5	6110.2	5918.3	5507.6	4965.9	4265.4	3771.1	3670.0	3794.9	3844.4
37.5°	6649.8	6719.9	6620.9	6263.9	5629.4	4797.7	4150.8	3959.9	4097.2	4159.1
40°	7117.2	7224.5	7217.3	6994.4	6411.4	5443.6	4632.7	4318.0	4472.7	4539.8
42.5°	7496.9	7589.7	7670.2	7658.9	7227.6	6177.2	5199.1	4783.3	4900.9	4978.3
45°	7758.9	7858.0	8031.3	8218.1	8012.8	6962.4	5848.1	5335.3	5442.6	5559.2
47.5°	7993.1	8105.6	8330.5	8626.7	8679.3	7750.7	6559.0	5978.1	6076.1	6196.8
50°	8013.8	8110.8	8459.5	8879.4	9152.9	8508.0	7322.5	6699.3	6791.1	6920.1
52.5°	7515.4	7668.1	8276.9	8872.2	9370.6	9141.5	8080.8	7449.4	7552.6	7707.3
55°	5833.6	6057.5	7741.4	8595.7	9293.2	9551.1	8802.1	8247.0	8379.0	8541.0
57.5°	5024.7	5122.8	6145.2	8092.2	8940.3	9657.4	9410.8	9052.8	9265.3	9442.8
60°	4516.1	4597.6	5202.2	7309.1	8476.0	9489.2	9881.3	9803.9	10171.2	10382.7
62.5°	3971.3	4048.7	4598.6	6102.9	7881.7	9209.6	10178.4	10497.3	11099.8	11330.9
65°	3430.6	3496.7	4023.9	5127.9	7126.5	8930.0	10332.2	11096.7	11959.3	12198.7
67.5°	2828.1	2882.8	3381.1	4326.2	6208.2	8547.2	10408.5	11568.2	12707.3	12912.6
70°	2040.8	2083.2	2598.0	3421.4	5055.7	7888.9	10377.6	11902.5	13095.3	13259.3
72.5°	964.7	1002.9	1607.5	2221.4	3571.0	6607.5	9751.3	11637.4	12701.1	12619.6
75°	514.9	547.9	923.4	1218.5	1886.1	4529.5	7979.7	10024.7	10665.4	10269.2
77.5°	348.7	374.5	571.6	731.5	861.5	2150.2	5128.9	6940.7	6677.6	6023.5
80°	276.5	303.3	468.4	495.3	416.8	776.9	2119.3	3212.9	2308.1	1845.8
82.5°	212.5	242.5	394.1	359.1	227.0	318.8	617.0	1016.3	591.2	449.9
85°	130.0	162.0	309.5	229.1	127.9	145.5	209.5	282.7	180.6	150.6
87.5°	66.0	92.9	156.8	83.6	57.8	34.0	55.7	55.7	47.5	41.3
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°
2810.6	0°	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6	2810.6
2796.1	2.5°	2820.9	2841.5	2876.6	2909.6	2935.4	2960.2	2984.9	2998.3	3002.5	3019.0
2811.6	5°	2853.9	2892.1	2960.2	3024.1	3064.4	3089.1	3106.7	3117.0	3119.1	3124.2
2853.9	7.5°	2914.8	2975.6	3070.6	3134.5	3164.4	3162.4	3155.2	3129.4	3119.1	3109.8
2915.8	10°	3000.4	3080.9	3197.5	3241.8	3223.3	3173.7	3109.8	3034.4	2999.4	2965.3
3000.4	12.5°	3106.7	3208.8	3323.3	3321.3	3229.5	3102.5	2954.0	2838.4	2765.2	2712.5
3104.6	15°	3235.6	3353.3	3441.0	3370.8	3169.6	2941.6	2723.9	2573.2	2507.2	2449.4
3209.8	17.5°	3368.7	3494.6	3534.9	3355.3	3019.0	2703.2	2456.7	2338.0	2273.0	2242.0
3323.3	20°	3498.7	3623.6	3590.6	3266.6	2789.9	2432.9	2213.2	2148.2	2134.7	2142.0
3433.7	22.5°	3636.0	3747.4	3601.9	3095.3	2497.9	2156.4	2035.7	2037.8	2067.7	2089.3
3549.3	25°	3776.3	3851.6	3572.0	2847.7	2184.3	1953.1	1923.2	1956.2	2015.1	2057.4
3679.3	27.5°	3911.5	3944.5	3507.0	2541.3	1915.0	1807.7	1812.8	1880.9	1969.7	2028.5
3837.2	30°	4064.2	4027.0	3382.2	2196.6	1728.2	1682.8	1726.2	1805.6	1894.3	1947.0
4036.3	32.5°	4236.5	4098.2	3184.1	1877.8	1596.2	1582.7	1653.9	1705.5	1744.7	1760.2
4300.4	35°	4451.1	4198.3	2930.2	1653.9	1477.5	1509.5	1577.6	1551.8	1536.3	1528.1
4655.4	37.5°	4729.6	4333.4	2633.1	1508.5	1381.5	1456.9	1484.7	1404.2	1343.4	1313.4
5085.6	40°	5065.0	4531.5	2347.3	1396.0	1320.7	1411.5	1363.0	1266.0	1188.6	1146.3
5569.5	42.5°	5437.4	4738.9	2106.9	1311.4	1286.6	1374.3	1273.2	1157.6	1032.8	1019.4
6146.3	45°	5828.5	4952.5	1942.8	1246.4	1270.1	1342.3	1221.6	1034.9	946.1	1000.8
6725.1	47.5°	6219.5	5148.5	1843.8	1197.9	1261.9	1306.2	1176.2	966.8	903.8	983.3
7345.2	50°	6654.9	5324.0	1799.4	1162.8	1252.6	1291.8	1108.1	949.2	859.5	912.1
7987.0	52.5°	7087.3	5460.1	1766.4	1127.7	1239.2	1280.4	1075.1	928.6	805.8	808.9
8632.8	55°	7518.5	5548.9	1730.3	1081.3	1209.2	1255.7	1072.0	905.9	765.6	751.1
9315.9	57.5°	7978.7	5599.4	1685.9	1029.7	1157.6	1192.7	1068.9	888.4	753.2	729.5
10014.4	60°	8447.1	5673.7	1628.1	966.8	1088.5	1117.4	1061.7	882.2	746.0	705.7
10672.7	62.5°	8867.1	5699.5	1559.0	906.9	999.8	1043.1	1046.2	877.0	726.4	657.2
11219.5	65°	9142.5	5588.1	1438.3	838.8	903.8	966.8	1016.3	859.5	691.3	622.2
11489.8	67.5°	9131.2	5270.3	1249.5	751.1	811.0	882.2	973.0	829.5	649.0	578.8
11285.5	70°	8706.1	4643.0	1010.1	649.0	708.8	791.4	917.2	785.2	598.4	531.4
10035.0	72.5°	7466.9	3633.9	733.6	529.3	590.2	697.5	845.0	731.5	546.8	489.1
7416.4	75°	5334.3	2299.8	497.3	406.5	459.1	591.2	755.3	668.6	499.4	491.1
3714.4	77.5°	2724.9	1098.8	329.1	297.2	319.8	466.4	634.5	597.4	506.6	405.5
1056.5	80°	886.3	405.5	207.4	202.2	212.5	310.6	491.1	490.1	383.8	275.5
255.9	82.5°	282.7	174.4	135.2	130.0	124.8	195.0	342.5	387.9	259.0	174.4
91.8	85°	112.5	104.2	79.4	73.3	52.6	91.8	179.5	257.9	192.9	125.9
23.7	87.5°	41.3	41.3	21.7	15.5	11.3	31.0	48.5	77.4	110.4	65.0
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>
2810.6
3028.3
3132.5
3111.8
2955.0
2700.2
2443.2
2251.3
2138.9
2094.5
2068.7
2042.9
1959.3
1768.5
1536.3
1320.7
1149.4
1032.8
1029.7
1020.4
951.3
830.6
761.4
732.6
708.8
657.2
622.2
581.9
537.6
486.0
463.3
361.1
243.5
173.3
129.0
64.0
0.0

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