

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: P947494

Luminaire Tested: **GALN-SB2D-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947494
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-SB2D-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18167 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

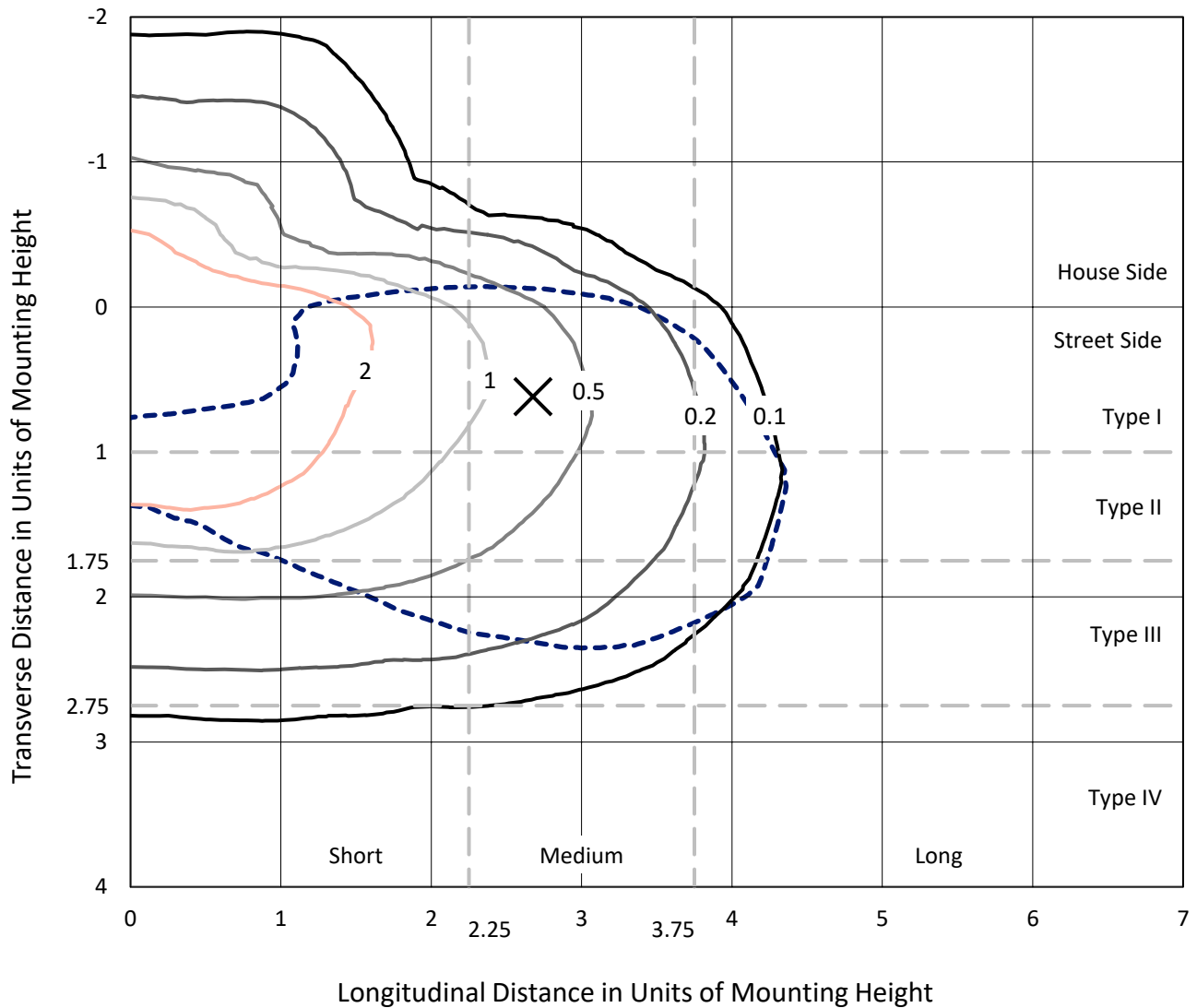
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

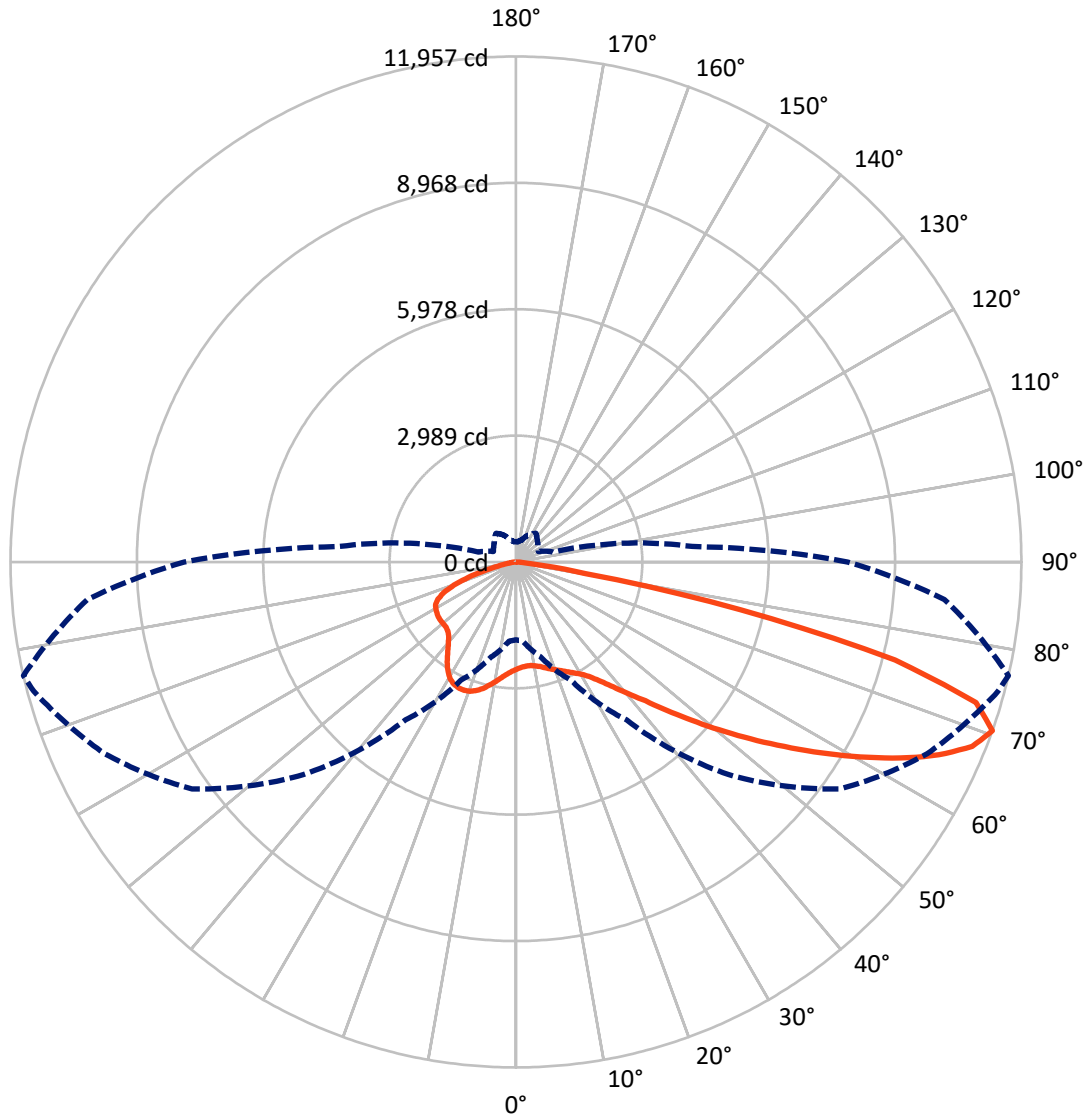
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	3978.3	0.0	3978.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14188.7	0.0	14188.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	18167.0	0.0	18167.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	1.3
10°-20°	697.6	3.8
20°-30°	1193.0	6.6
30°-40°	1918.5	10.6
40°-50°	2995.3	16.5
50°-60°	4001.0	22.0
60°-70°	4264.5	23.5
70°-80°	2625.2	14.5
80°-90°	230.0	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°	18167.0	100.0
0°-180°	18167.0	100.0



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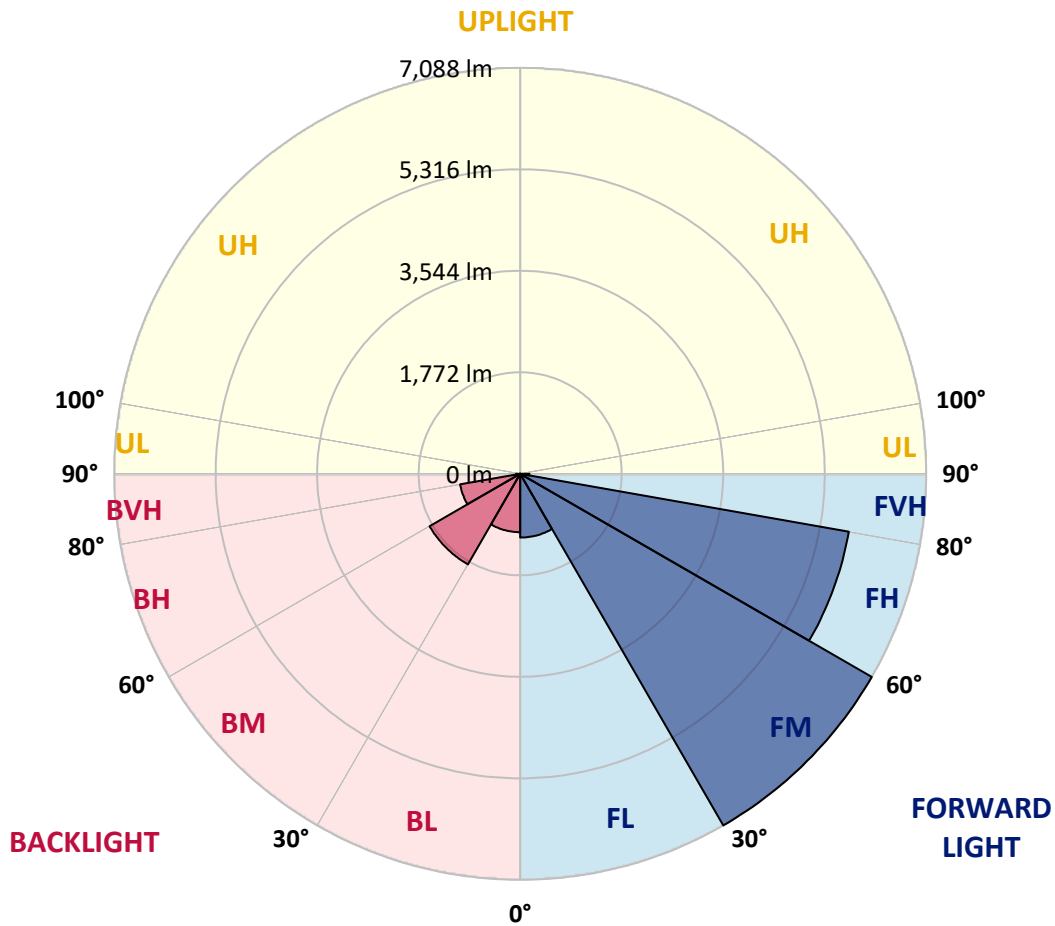
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.0	6.1			
FM (30°-60°)	7088.4	39.0			
FH (60°-80°)	5826.5	32.1			G3/7500
FVH (80°-90°)	160.9	0.9			G2/225
BL (0°-30°)	1019.4	5.6	B3/2500		
BM (30°-60°)	1826.5	10.1	B2/2500		
BH (60°-80°)	1063.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	69.2	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°	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5
2.5°	2336.3	2335.4	2347.4	2351.2	2373.5	2389.3	2419.1	2450.7	2491.7	2496.3
5°	2201.4	2201.4	2215.3	2230.2	2259.1	2290.7	2336.3	2391.2	2461.9	2473.1
7.5°	2086.9	2094.4	2106.5	2135.3	2168.8	2214.4	2284.2	2362.3	2455.4	2473.1
10°	1994.8	2003.2	2018.1	2041.3	2091.6	2154.9	2246.0	2346.5	2471.2	2499.1
12.5°	1966.0	1974.3	1982.7	2000.4	2046.9	2121.4	2230.2	2354.0	2509.3	2537.3
15°	2033.0	2043.2	2036.7	2032.0	2056.2	2124.1	2237.7	2380.9	2556.8	2596.8
17.5°	2187.4	2191.1	2176.3	2132.5	2128.8	2165.1	2273.0	2418.2	2616.3	2660.1
20°	2436.8	2430.3	2399.6	2313.0	2263.7	2256.3	2333.5	2474.0	2677.7	2724.3
22.5°	2775.4	2768.0	2706.6	2569.8	2460.0	2387.5	2421.0	2546.6	2746.6	2798.7
25°	3197.9	3187.6	3097.4	2911.3	2741.0	2561.4	2540.0	2642.4	2831.3	2879.6
27.5°	3691.0	3682.6	3584.9	3339.3	3093.6	2799.6	2688.0	2755.0	2919.7	2974.6
30°	4221.3	4245.5	4072.4	3808.2	3497.4	3110.4	2887.1	2893.6	3034.1	3083.4
32.5°	4844.7	4886.6	4678.1	4343.2	3918.9	3448.1	3138.3	3087.1	3200.6	3241.6
35°	5462.5	5509.9	5336.9	4966.6	4478.1	3846.4	3400.7	3309.5	3422.1	3466.7
37.5°	5996.6	6059.8	5970.5	5648.6	5076.4	4326.4	3743.1	3570.9	3694.7	3750.5
40°	6418.0	6514.8	6508.3	6307.3	5781.6	4908.9	4177.6	3893.8	4033.4	4093.8
42.5°	6760.4	6844.2	6916.7	6906.5	6517.6	5570.4	4688.4	4313.4	4419.5	4489.3
45°	6996.8	7086.1	7242.4	7410.8	7225.6	6278.5	5273.6	4811.2	4908.0	5013.1
47.5°	7208.0	7309.4	7512.2	7779.2	7826.7	6989.3	5914.7	5390.8	5479.2	5588.1
50°	7226.6	7314.0	7628.5	8007.2	8253.7	7672.2	6603.2	6041.2	6124.0	6240.3
52.5°	6777.2	6914.9	7463.8	8000.7	8450.1	8243.5	7287.0	6717.6	6810.7	6950.2
55°	5260.6	5462.5	6980.9	7751.3	8380.3	8612.9	7937.4	7436.8	7555.9	7702.0
57.5°	4531.1	4619.5	5541.6	7297.3	8062.1	8708.7	8486.4	8163.5	8355.2	8515.2
60°	4072.4	4145.9	4691.2	6591.1	7643.4	8557.1	8910.6	8840.8	9172.1	9362.8
62.5°	3581.2	3651.0	4146.9	5503.4	7107.5	8304.9	9178.6	9466.1	10009.5	10217.9
65°	3093.6	3153.2	3628.6	4624.2	6426.4	8052.8	9317.2	10006.7	10784.5	11000.3
67.5°	2550.3	2599.6	3049.0	3901.2	5598.3	7707.6	9386.1	10431.9	11459.0	11644.2
70°	1840.4	1878.5	2342.8	3085.3	4559.1	7114.0	9358.2	10733.3	11808.9	11956.8
72.5°	869.9	904.4	1449.6	2003.2	3220.2	5958.4	8793.4	10494.2	11453.5	11380.0
75°	464.3	494.1	832.7	1098.8	1700.8	4084.5	7195.9	9040.0	9617.7	9260.5
77.5°	314.5	337.7	515.5	659.7	776.9	1939.0	4625.1	6258.9	6021.7	5431.8
80°	249.4	273.5	422.4	446.6	375.9	700.6	1911.1	2897.3	2081.3	1664.5
82.5°	191.7	218.6	355.4	323.8	204.7	287.5	556.4	916.5	533.1	405.7
85°	117.2	146.1	279.1	206.6	115.4	131.2	188.9	254.9	162.8	135.8
87.5°	59.5	83.7	141.4	75.4	52.1	30.7	50.2	50.2	42.8	37.2
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°
2534.5	0°	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5	2534.5
2521.4	2.5°	2543.8	2562.4	2594.0	2623.8	2647.0	2669.4	2691.7	2703.8	2707.5	2722.4
2535.4	5°	2573.5	2608.0	2669.4	2727.1	2763.3	2785.7	2801.5	2810.8	2812.7	2817.3
2573.5	7.5°	2628.4	2683.3	2768.9	2826.6	2853.6	2851.7	2845.2	2822.0	2812.7	2804.3
2629.4	10°	2705.7	2778.2	2883.4	2923.4	2906.6	2862.0	2804.3	2736.4	2704.7	2674.0
2705.7	12.5°	2801.5	2893.6	2996.9	2995.0	2912.2	2797.8	2663.8	2559.6	2493.5	2446.1
2799.6	15°	2917.8	3023.9	3102.9	3039.7	2858.2	2652.6	2456.3	2320.5	2260.9	2208.8
2894.5	17.5°	3037.8	3151.3	3187.6	3025.7	2722.4	2437.7	2215.3	2108.3	2049.7	2021.8
2996.9	20°	3155.1	3267.6	3237.9	2945.7	2515.9	2193.9	1995.7	1937.1	1925.0	1931.6
3096.4	22.5°	3278.8	3379.3	3248.1	2791.3	2252.5	1944.6	1835.7	1837.6	1864.6	1884.1
3200.6	25°	3405.3	3473.3	3221.1	2568.0	1969.7	1761.3	1734.3	1764.1	1817.1	1855.3
3317.9	27.5°	3527.2	3557.0	3162.5	2291.6	1726.9	1630.1	1634.7	1696.2	1776.2	1829.2
3460.2	30°	3664.9	3631.4	3049.9	1980.9	1558.5	1517.5	1556.6	1628.2	1708.2	1755.7
3639.8	32.5°	3820.3	3695.6	2871.3	1693.4	1439.4	1427.3	1491.5	1538.0	1573.3	1587.3
3878.0	35°	4013.8	3785.9	2642.4	1491.5	1332.4	1361.2	1422.6	1399.4	1385.4	1378.0
4198.1	37.5°	4265.0	3907.8	2374.4	1360.3	1245.8	1313.8	1338.9	1266.3	1211.4	1184.4
4586.0	40°	4567.4	4086.4	2116.7	1258.9	1190.9	1272.8	1229.1	1141.6	1071.8	1033.7
5022.4	42.5°	4903.3	4273.4	1899.9	1182.6	1160.2	1239.3	1148.1	1043.9	931.3	919.3
5542.5	45°	5255.9	4466.0	1752.0	1123.9	1145.3	1210.5	1101.6	933.2	853.2	902.5
6064.5	47.5°	5608.6	4642.8	1662.7	1080.2	1137.9	1177.9	1060.7	871.8	815.0	886.7
6623.7	50°	6001.2	4801.0	1622.7	1048.6	1129.5	1164.9	999.3	856.0	775.0	822.5
7202.4	52.5°	6391.1	4923.8	1592.9	1016.9	1117.4	1154.7	969.5	837.4	726.7	729.4
7784.8	55°	6780.0	5003.8	1560.3	975.1	1090.5	1132.3	966.7	816.9	690.4	677.3
8400.8	57.5°	7194.9	5049.4	1520.3	928.6	1043.9	1075.6	963.9	801.1	679.2	657.8
9030.6	60°	7617.3	5116.4	1468.2	871.8	981.6	1007.6	957.4	795.5	672.7	636.4
9624.3	62.5°	7996.0	5139.6	1405.9	817.8	901.6	940.7	943.4	790.9	655.0	592.7
10117.4	65°	8244.4	5039.2	1297.0	756.4	815.0	871.8	916.5	775.0	623.4	561.0
10361.1	67.5°	8234.2	4752.6	1126.7	677.3	731.3	795.5	877.4	748.1	585.2	522.0
10176.9	70°	7850.9	4186.9	910.9	585.2	639.2	713.6	827.1	708.0	539.6	479.2
9049.3	72.5°	6733.4	3276.9	661.5	477.3	532.2	629.0	762.0	659.7	493.1	441.0
6687.9	75°	4810.3	2073.9	448.5	366.6	414.0	533.1	681.1	602.9	450.3	442.9
3349.5	77.5°	2457.2	990.9	296.8	268.0	288.4	420.5	572.2	538.7	456.8	365.7
952.7	80°	799.2	365.7	187.0	182.4	191.7	280.1	442.9	441.9	346.1	248.4
230.7	82.5°	254.9	157.2	121.9	117.2	112.6	175.8	308.9	349.8	233.5	157.2
82.8	85°	101.4	94.0	71.6	66.1	47.5	82.8	161.9	232.6	174.0	113.5
21.4	87.5°	37.2	37.2	19.5	14.0	10.2	27.9	43.7	69.8	99.6	58.6
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>
2534.5
2730.8
2824.8
2806.1
2664.7
2434.9
2203.2
2030.2
1928.8
1888.8
1865.5
1842.2
1766.9
1594.7
1385.4
1190.9
1036.5
931.3
928.6
920.2
857.8
749.0
686.6
660.6
639.2
592.7
561.0
524.8
484.7
438.2
417.8
325.6
219.6
156.3
116.3
57.7
0.0

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