

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: P950098

Luminaire Tested: **GALN-SB4C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950098
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-SB4C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18756 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

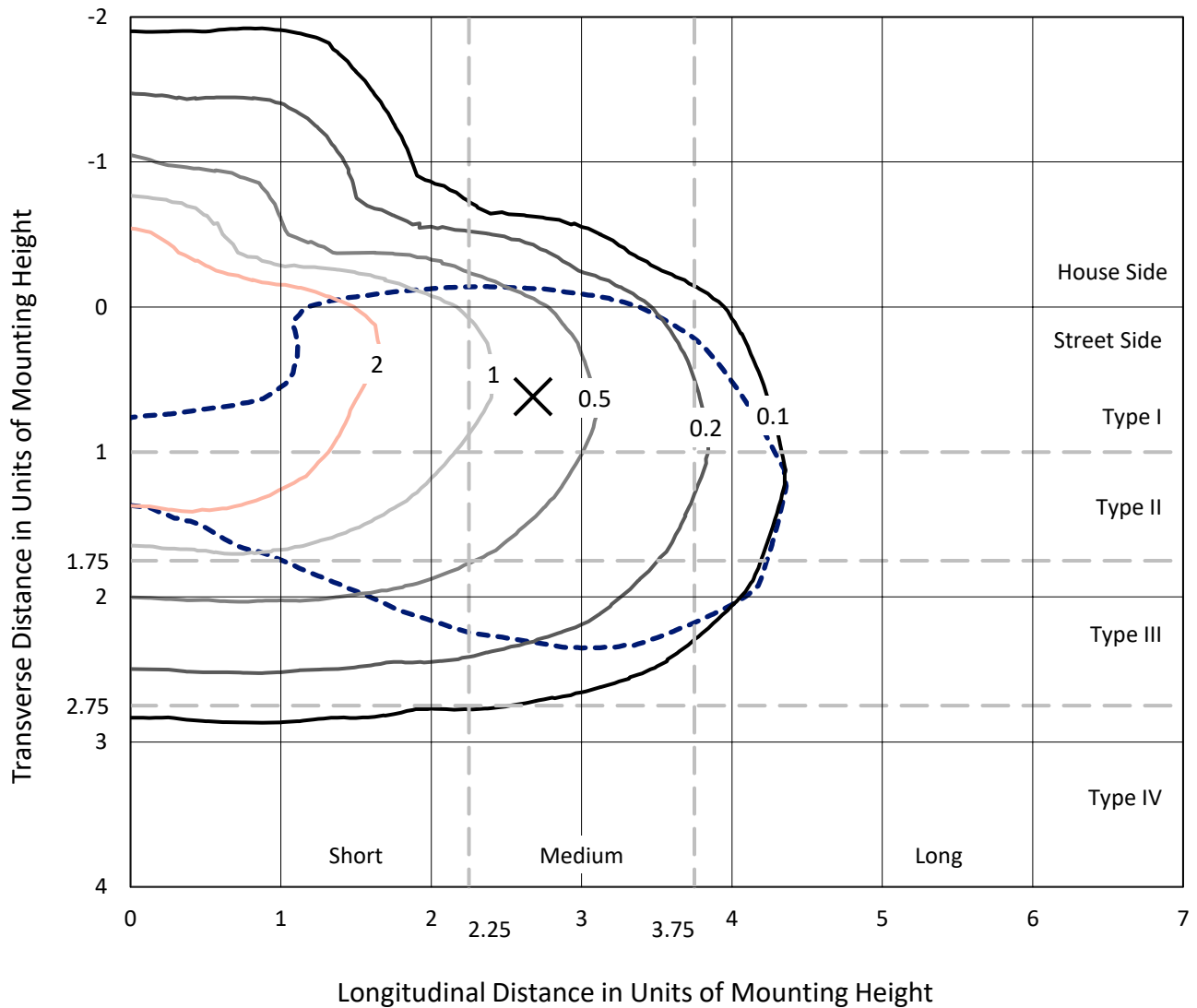
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

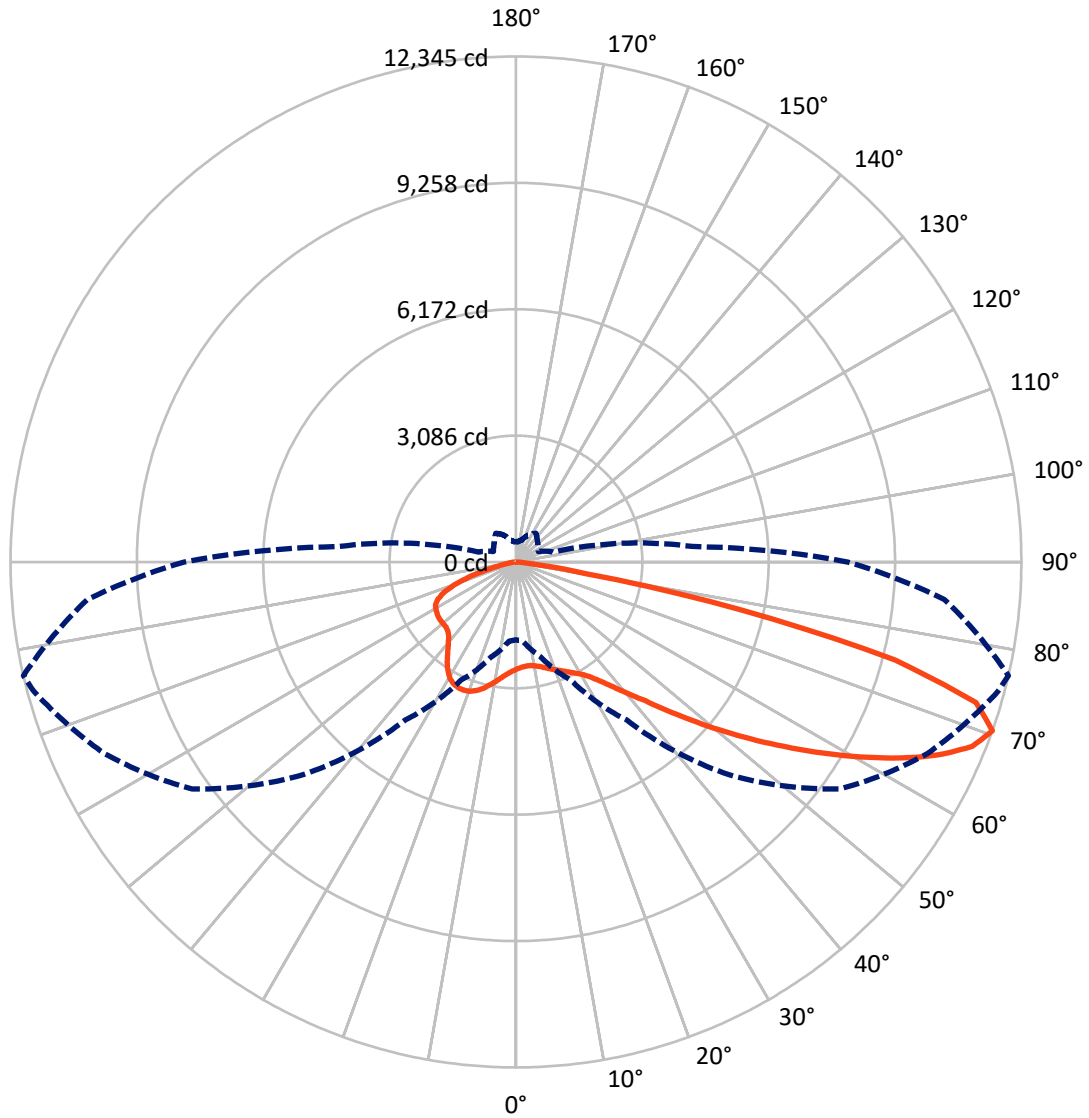
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	4107.3	0.0	4107.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14648.7	0.0	14648.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	18756.0	0.0	18756.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.3
10°-20°	720.2	3.8
20°-30°	1231.7	6.6
30°-40°	1980.7	10.6
40°-50°	3092.4	16.5
50°-60°	4130.8	22.0
60°-70°	4402.8	23.5
70°-80°	2710.3	14.5
80°-90°	237.5	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°	18756.0	100.0
0°-180°	18756.0	100.0



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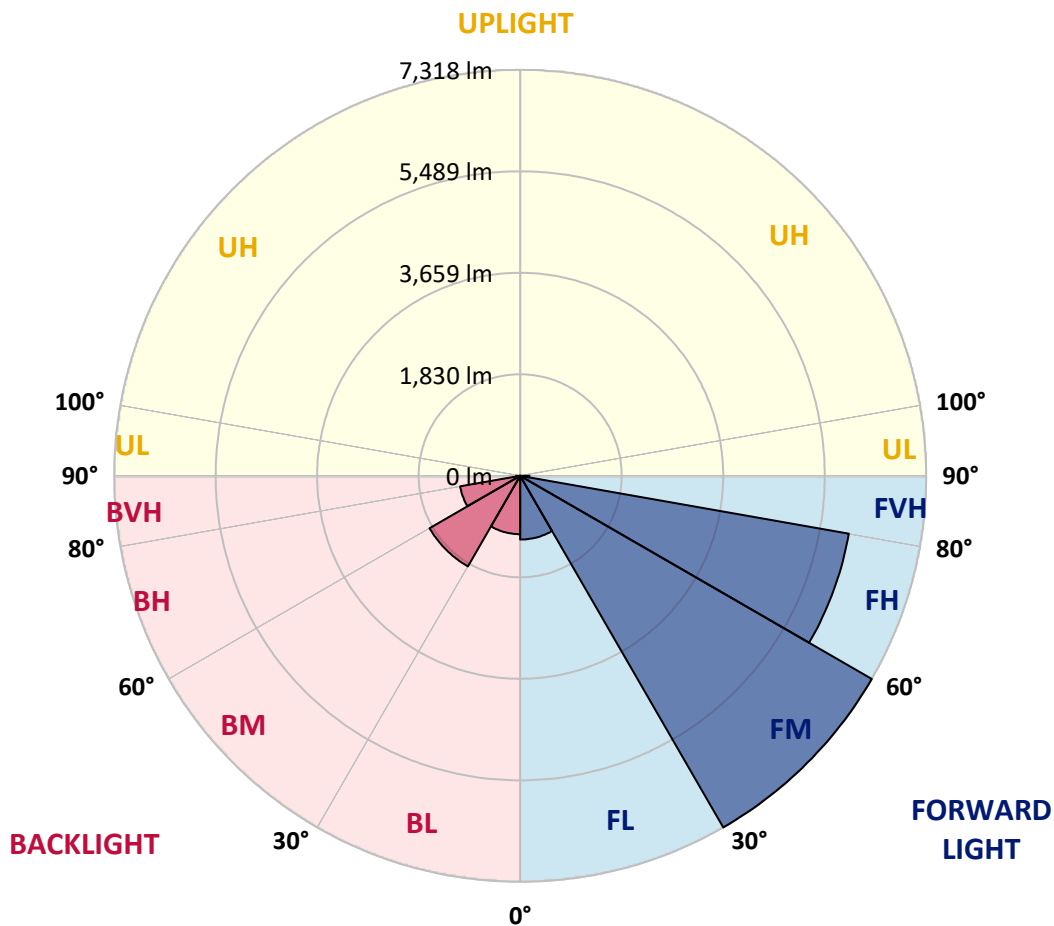
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.1	6.1			
FM (30°-60°)	7318.2	39.0			
FH (60°-80°)	6015.4	32.1			G3/7500
FVH (80°-90°)	166.1	0.9			G2/225
BL (0°-30°)	1052.4	5.6	B3/2500		
BM (30°-60°)	1885.7	10.1	B2/2500		
BH (60°-80°)	1097.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	71.4	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°	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6
2.5°	2412.0	2411.1	2423.6	2427.4	2450.5	2466.8	2497.5	2530.2	2572.4	2577.2
5°	2272.7	2272.7	2287.2	2302.5	2332.3	2365.0	2412.0	2468.7	2541.7	2553.2
7.5°	2154.6	2162.3	2174.8	2204.5	2239.1	2286.2	2358.2	2438.9	2535.0	2553.2
10°	2059.5	2068.1	2083.5	2107.5	2159.4	2224.7	2318.9	2422.6	2551.3	2580.1
12.5°	2029.7	2038.4	2047.0	2065.3	2113.3	2190.1	2302.5	2430.3	2590.7	2619.5
15°	2098.9	2109.4	2102.7	2097.9	2122.9	2193.0	2310.2	2458.1	2639.7	2681.0
17.5°	2258.3	2262.2	2246.8	2201.7	2197.8	2235.3	2346.7	2496.6	2701.2	2746.3
20°	2515.8	2509.0	2477.3	2388.0	2337.1	2329.4	2409.1	2554.2	2764.6	2812.6
22.5°	2865.4	2857.7	2794.3	2653.1	2539.8	2464.9	2499.4	2629.1	2835.6	2889.4
25°	3301.5	3291.0	3197.8	3005.7	2829.9	2644.5	2622.4	2728.1	2923.1	2973.0
27.5°	3810.6	3802.0	3701.1	3447.5	3193.9	2890.4	2775.1	2844.3	3014.3	3071.0
30°	4358.2	4383.1	4204.5	3931.7	3610.8	3211.2	2980.7	2987.4	3132.5	3183.4
32.5°	5001.8	5045.0	4829.8	4484.0	4046.0	3559.9	3240.1	3187.2	3304.4	3346.7
35°	5639.6	5688.6	5509.9	5127.6	4623.3	3971.1	3510.9	3416.8	3533.0	3579.1
37.5°	6191.0	6256.3	6164.1	5831.7	5241.0	4466.7	3864.4	3686.7	3814.5	3872.1
40°	6626.1	6726.0	6719.3	6511.8	5969.1	5068.0	4313.0	4020.0	4164.1	4226.6
42.5°	6979.6	7066.1	7141.0	7130.4	6728.9	5751.0	4840.4	4453.3	4562.8	4634.8
45°	7223.6	7315.8	7477.2	7651.1	7459.9	6482.0	5444.6	4967.2	5067.1	5175.6
47.5°	7441.7	7546.4	7755.8	8031.4	8080.4	7215.9	6106.4	5565.6	5656.9	5769.3
50°	7460.9	7551.2	7875.8	8266.8	8521.3	7921.0	6817.3	6237.1	6322.6	6442.6
52.5°	6996.9	7139.1	7705.8	8260.1	8724.0	8510.8	7523.3	6935.4	7031.5	7175.6
55°	5431.1	5639.6	7207.3	8002.6	8652.0	8892.1	8194.7	7678.0	7800.9	7951.7
57.5°	4678.0	4769.3	5721.2	7533.9	8323.5	8991.1	8761.5	8428.2	8626.1	8791.3
60°	4204.5	4280.4	4843.3	6804.8	7891.2	8834.5	9199.5	9127.5	9469.4	9666.4
62.5°	3697.3	3769.3	4281.3	5681.9	7337.9	8574.2	9476.2	9773.0	10334.0	10549.1
65°	3193.9	3255.4	3746.3	4774.1	6634.8	8313.9	9619.3	10331.1	11134.1	11357.0
67.5°	2633.0	2683.9	3147.8	4027.7	5779.8	7957.5	9690.4	10770.1	11830.6	12021.7
70°	1900.0	1939.4	2418.8	3185.3	4706.9	7344.6	9661.6	11081.3	12191.7	12344.5
72.5°	898.1	933.7	1496.6	2068.1	3324.6	6151.6	9078.5	10834.4	11824.8	11748.9
75°	479.3	510.1	859.7	1134.5	1755.9	4217.0	7429.2	9333.0	9929.6	9560.7
77.5°	324.7	348.7	532.2	681.1	802.1	2001.9	4775.1	6461.9	6216.9	5607.9
80°	257.4	282.4	436.1	461.1	388.1	723.3	1973.0	2991.3	2148.8	1718.5
82.5°	197.9	225.7	366.9	334.3	211.3	296.8	574.4	946.2	550.4	418.8
85°	121.0	150.8	288.2	213.2	119.1	135.4	195.0	263.2	168.1	140.2
87.5°	61.5	86.5	146.0	77.8	53.8	31.7	51.9	51.9	44.2	38.4
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°
2616.6	0°	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6
2603.2	2.5°	2626.2	2645.5	2678.1	2708.8	2732.9	2755.9	2779.0	2791.5	2795.3	2810.7
2617.6	5°	2657.0	2692.5	2755.9	2815.5	2852.9	2876.0	2892.3	2901.9	2903.8	2908.7
2657.0	7.5°	2713.7	2770.3	2858.7	2918.3	2946.1	2944.2	2937.5	2913.5	2903.8	2895.2
2714.6	10°	2793.4	2868.3	2976.9	3018.2	3000.9	2954.8	2895.2	2825.1	2792.4	2760.7
2793.4	12.5°	2892.3	2987.4	3094.0	3092.1	3006.6	2888.5	2750.2	2642.6	2574.4	2525.4
2890.4	15°	3012.4	3121.9	3203.6	3138.2	2950.9	2738.6	2535.9	2395.7	2334.2	2280.4
2988.4	17.5°	3136.3	3253.5	3291.0	3123.8	2810.7	2516.7	2287.2	2176.7	2116.2	2087.4
3094.0	20°	3257.3	3373.6	3342.8	3041.2	2597.4	2265.1	2060.5	1999.9	1987.5	1994.2
3196.8	22.5°	3385.1	3488.8	3353.4	2881.8	2325.6	2007.6	1895.2	1897.2	1925.0	1945.2
3304.4	25°	3515.7	3585.9	3325.5	2651.2	2033.6	1818.4	1790.5	1821.3	1876.0	1915.4
3425.4	27.5°	3641.6	3672.3	3265.0	2365.9	1782.8	1682.9	1687.7	1751.1	1833.8	1888.5
3572.4	30°	3783.7	3749.2	3148.8	2045.1	1609.0	1566.7	1607.1	1681.0	1763.6	1812.6
3757.8	32.5°	3944.2	3815.4	2964.4	1748.3	1486.0	1473.5	1539.8	1587.8	1624.3	1638.8
4003.7	35°	4144.0	3908.6	2728.1	1539.8	1375.6	1405.3	1468.7	1444.7	1430.3	1422.6
4334.2	37.5°	4403.3	4034.5	2451.4	1404.4	1286.2	1356.3	1382.3	1307.4	1250.7	1222.8
4734.7	40°	4715.5	4218.9	2185.3	1299.7	1229.5	1314.1	1268.9	1178.6	1106.6	1067.2
5185.2	42.5°	5062.3	4412.0	1961.5	1220.9	1197.8	1279.5	1185.4	1077.8	961.5	949.1
5722.2	45°	5426.3	4610.8	1808.8	1160.4	1182.5	1249.7	1137.3	963.5	880.9	931.8
6261.1	47.5°	5790.4	4793.3	1716.6	1115.2	1174.8	1216.1	1095.1	900.1	841.5	915.4
6838.4	50°	6195.8	4956.6	1675.3	1082.6	1166.1	1202.7	1031.7	883.7	800.2	849.2
7435.9	52.5°	6598.3	5083.4	1644.5	1049.9	1153.7	1192.1	1000.9	864.5	750.2	753.1
8037.2	55°	6999.8	5166.0	1610.9	1006.7	1125.8	1169.0	998.0	843.4	712.8	699.3
8673.1	57.5°	7428.2	5213.1	1569.6	958.7	1077.8	1110.4	995.2	827.1	701.2	679.1
9323.4	60°	7864.3	5282.3	1515.8	900.1	1013.4	1040.3	988.4	821.3	694.5	657.0
9936.3	62.5°	8255.3	5306.3	1451.4	844.4	930.8	971.2	974.0	816.5	676.3	611.9
10445.4	65°	8511.7	5202.5	1339.1	781.0	841.5	900.1	946.2	800.2	643.6	579.2
10697.1	67.5°	8501.2	4906.7	1163.3	699.3	755.0	821.3	905.8	772.3	604.2	538.9
10506.9	70°	8105.4	4322.6	940.4	604.2	659.9	736.8	854.0	731.0	557.1	494.7
9342.6	72.5°	6951.8	3383.2	683.0	492.8	549.5	649.4	786.7	681.1	509.1	455.3
6904.7	75°	4966.2	2141.1	463.0	378.5	427.5	550.4	703.1	622.5	464.9	457.2
3458.1	77.5°	2536.9	1023.0	306.4	276.6	297.8	434.2	590.8	556.2	471.6	377.5
983.6	80°	825.1	377.5	193.1	188.3	197.9	289.1	457.2	456.3	357.3	256.5
238.2	82.5°	263.2	162.3	125.8	121.0	116.2	181.6	318.9	361.2	241.1	162.3
85.5	85°	104.7	97.0	74.0	68.2	49.0	85.5	167.1	240.1	179.6	117.2
22.1	87.5°	38.4	38.4	20.2	14.4	10.6	28.8	45.1	72.0	102.8	60.5
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>
2616.6
2819.3
2916.3
2897.1
2751.1
2513.9
2274.7
2096.0
1991.3
1950.0
1926.0
1902.0
1824.2
1646.4
1430.3
1229.5
1070.1
961.5
958.7
950.0
885.7
773.3
708.9
682.0
659.9
611.9
579.2
541.8
500.5
452.4
431.3
336.2
226.7
161.4
120.1
59.6
0.0

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