

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: P948124

Luminaire Tested: **GALN-SB3B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948124
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-SB3B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17345 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

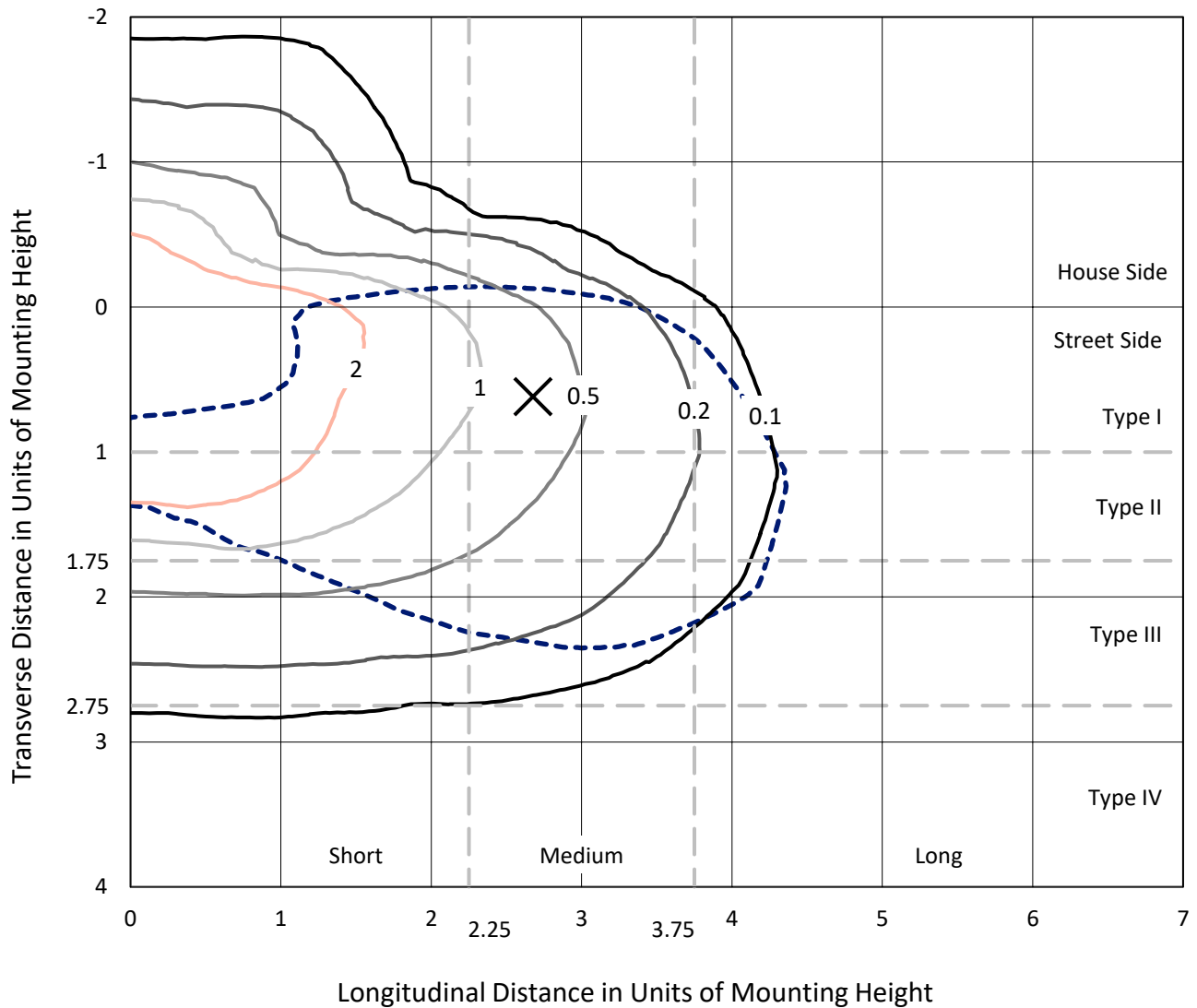
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

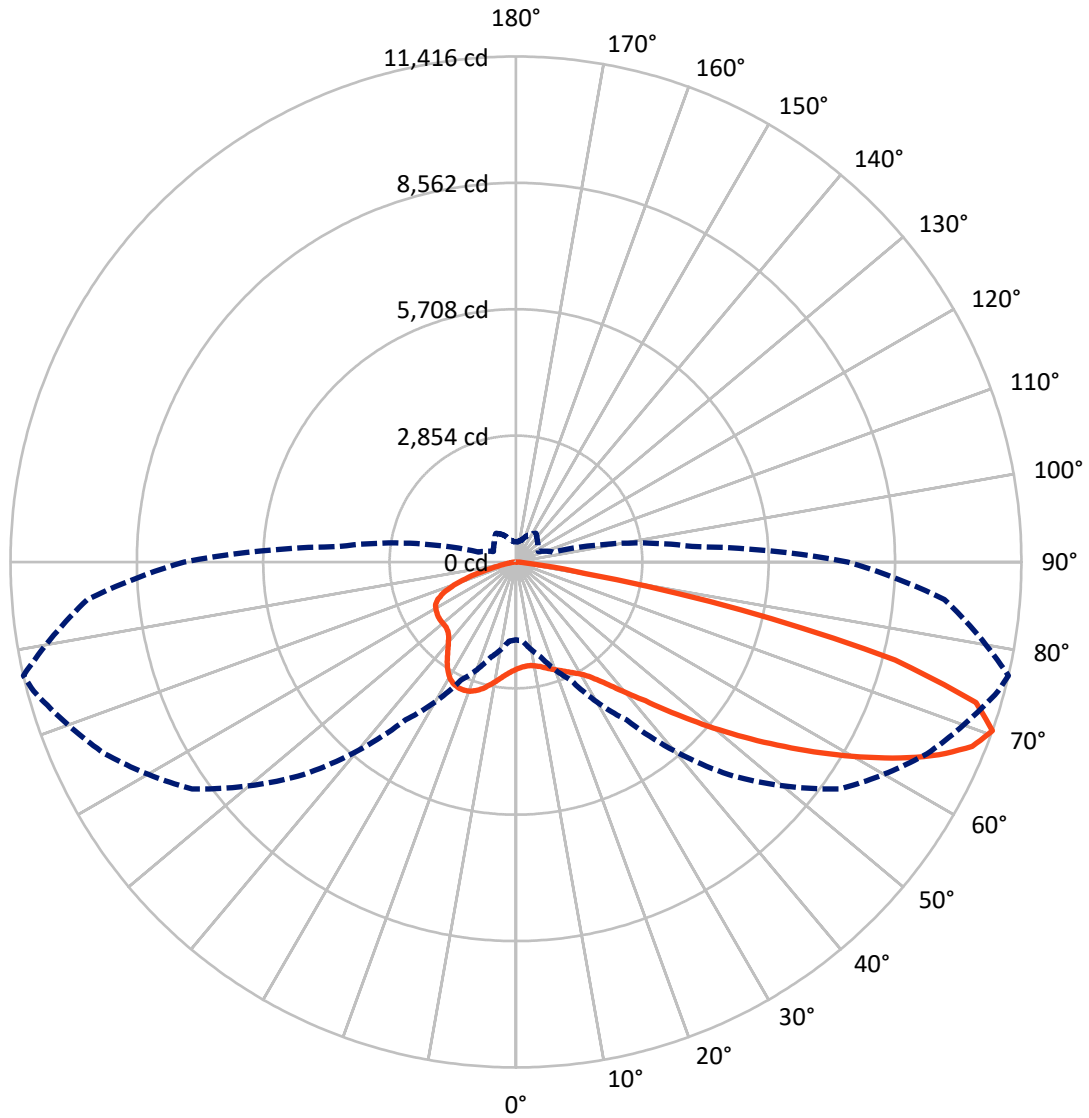
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	3798.3	0.0	3798.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13546.7	0.0	13546.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	17345.0	0.0	17345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.3
10°-20°	666.1	3.8
20°-30°	1139.1	6.6
30°-40°	1831.7	10.6
40°-50°	2859.8	16.5
50°-60°	3820.0	22.0
60°-70°	4071.5	23.5
70°-80°	2506.4	14.5
80°-90°	219.6	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°	17345.0	100.0
0°-180°	17345.0	100.0

Coefficient of Utilization



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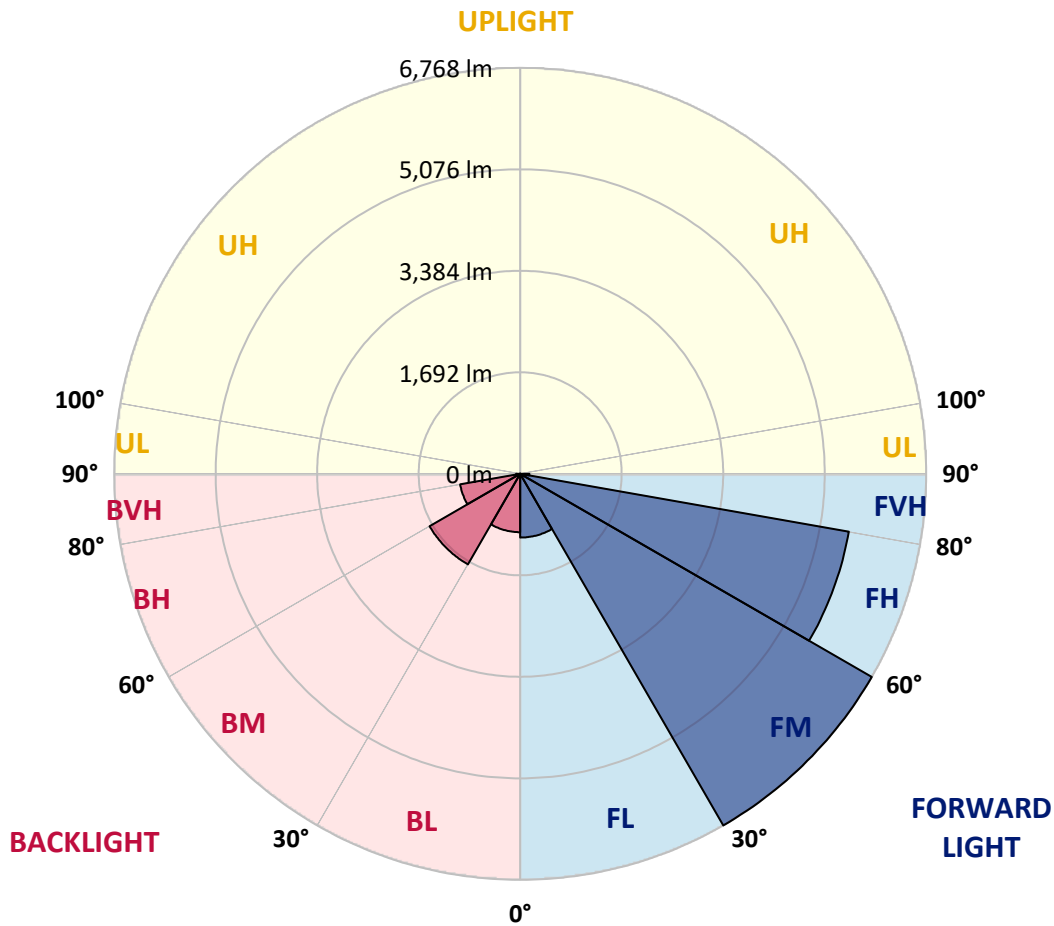
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.7	6.1			
FM (30°-60°)	6767.6	39.0			
FH (60°-80°)	5562.8	32.1			G3/7500
FVH (80°-90°)	153.6	0.9			G2/225
BL (0°-30°)	973.2	5.6	B2/1000		
BM (30°-60°)	1743.9	10.1	B2/2500		
BH (60°-80°)	1015.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	66.1	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°	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8
2.5°	2230.6	2229.7	2241.2	2244.8	2266.1	2281.2	2309.6	2339.8	2378.9	2383.4
5°	2101.8	2101.8	2115.1	2129.3	2156.8	2187.0	2230.6	2283.0	2350.5	2361.2
7.5°	1992.5	1999.6	2011.2	2038.7	2070.7	2114.2	2180.8	2255.4	2344.3	2361.2
10°	1904.6	1912.6	1926.8	1949.0	1996.9	2057.4	2144.4	2240.3	2359.4	2386.0
12.5°	1877.0	1885.0	1893.0	1909.9	1954.3	2025.4	2129.3	2247.5	2395.8	2422.5
15°	1941.0	1950.8	1944.5	1940.1	1963.2	2028.0	2136.4	2273.2	2441.1	2479.3
17.5°	2088.4	2092.0	2077.8	2036.0	2032.5	2067.1	2170.2	2308.7	2498.0	2539.7
20°	2326.5	2320.3	2291.0	2208.4	2161.3	2154.2	2227.9	2362.0	2556.6	2601.0
22.5°	2649.9	2642.8	2584.1	2453.5	2348.7	2279.4	2311.4	2431.3	2622.3	2672.1
25°	3053.2	3043.4	2957.2	2779.6	2617.0	2445.5	2425.1	2522.8	2703.2	2749.4
27.5°	3524.0	3516.0	3422.7	3188.2	2953.7	2673.0	2566.4	2630.3	2787.6	2840.0
30°	4030.3	4053.4	3888.2	3635.9	3339.2	2969.7	2756.5	2762.7	2896.8	2943.9
32.5°	4625.5	4665.5	4466.5	4146.7	3741.6	3292.1	2996.3	2947.4	3055.8	3094.9
35°	5215.3	5260.6	5095.4	4741.9	4275.5	3672.3	3246.8	3159.8	3267.2	3309.9
37.5°	5725.2	5785.6	5700.4	5393.0	4846.7	4130.7	3573.7	3409.4	3527.5	3580.8
40°	6127.6	6220.0	6213.8	6021.9	5520.0	4686.8	3988.6	3717.6	3850.9	3908.6
42.5°	6454.5	6534.5	6603.8	6594.0	6222.7	5318.4	4476.2	4118.3	4219.5	4286.1
45°	6680.2	6765.5	6914.7	7075.5	6898.7	5994.4	5035.0	4593.5	4685.9	4786.3
47.5°	6881.8	6978.6	7172.3	7427.2	7472.6	6673.1	5647.1	5146.9	5231.3	5335.3
50°	6899.6	6983.1	7283.3	7644.9	7880.3	7325.1	6304.4	5767.9	5846.9	5958.0
52.5°	6470.5	6602.0	7126.1	7638.7	8067.7	7870.5	6957.3	6413.7	6502.5	6635.8
55°	5022.6	5215.3	6665.1	7400.6	8001.1	8223.2	7578.3	7100.3	7214.1	7353.5
57.5°	4326.1	4410.5	5290.8	6967.1	7697.3	8314.7	8102.4	7794.1	7977.1	8129.9
60°	3888.2	3958.4	4478.9	6292.9	7297.6	8169.9	8507.4	8440.8	8757.1	8939.2
62.5°	3419.1	3485.8	3959.2	5254.4	6785.9	7929.2	8763.3	9037.8	9556.6	9755.5
65°	2953.7	3010.5	3464.5	4415.0	6135.6	7688.4	8895.6	9553.9	10296.5	10502.6
67.5°	2434.9	2482.0	2911.0	3724.7	5345.0	7358.8	8961.4	9959.9	10940.6	11117.3
70°	1757.1	1793.5	2236.8	2945.7	4352.8	6792.1	8934.7	10247.7	11274.6	11415.8
72.5°	830.6	863.4	1384.0	1912.6	3074.5	5688.8	8395.5	10019.4	10935.2	10865.1
75°	443.3	471.7	795.0	1049.1	1623.9	3899.7	6870.3	8630.9	9182.6	8841.5
77.5°	300.3	322.5	492.1	629.8	741.7	1851.3	4415.8	5975.7	5749.2	5186.0
80°	238.1	261.2	403.3	426.4	358.9	668.9	1824.6	2766.2	1987.2	1589.2
82.5°	183.0	208.8	339.3	309.1	195.4	274.5	531.2	875.0	509.0	387.3
85°	111.9	139.5	266.5	197.2	110.2	125.3	180.3	243.4	155.5	129.7
87.5°	56.9	79.9	135.0	72.0	49.7	29.3	48.0	48.0	40.9	35.5
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°
2419.8	0°	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8	2419.8
2407.3	2.5°	2428.7	2446.4	2476.6	2505.1	2527.3	2548.6	2569.9	2581.5	2585.0	2599.2
2420.7	5°	2457.1	2490.0	2548.6	2603.7	2638.3	2659.6	2674.7	2683.6	2685.4	2689.8
2457.1	7.5°	2509.5	2561.9	2643.6	2698.7	2724.5	2722.7	2716.5	2694.3	2685.4	2677.4
2510.4	10°	2583.2	2652.5	2752.9	2791.1	2775.1	2732.5	2677.4	2612.6	2582.3	2553.0
2583.2	12.5°	2674.7	2762.7	2861.3	2859.5	2780.4	2671.2	2543.3	2443.8	2380.7	2335.4
2673.0	15°	2785.8	2887.0	2962.5	2902.1	2728.9	2532.6	2345.2	2215.5	2158.6	2108.9
2763.6	17.5°	2900.4	3008.7	3043.4	2888.8	2599.2	2327.4	2115.1	2012.9	1957.0	1930.3
2861.3	20°	3012.3	3119.8	3091.4	2812.4	2402.0	2094.7	1905.4	1849.5	1837.9	1844.2
2956.3	22.5°	3130.4	3226.4	3101.1	2665.0	2150.6	1856.6	1752.7	1754.4	1780.2	1798.8
3055.8	25°	3251.3	3316.1	3075.4	2451.8	1880.6	1681.6	1655.8	1684.3	1734.9	1771.3
3167.8	27.5°	3367.6	3396.1	3019.4	2187.9	1648.7	1556.3	1560.8	1619.4	1695.8	1746.4
3303.7	30°	3499.1	3467.1	2911.9	1891.2	1487.9	1448.9	1486.2	1554.6	1631.0	1676.3
3475.1	32.5°	3647.4	3528.4	2741.4	1616.7	1374.2	1362.7	1424.0	1468.4	1502.2	1515.5
3702.5	35°	3832.2	3614.6	2522.8	1424.0	1272.1	1299.6	1358.2	1336.0	1322.7	1315.6
4008.1	37.5°	4072.1	3730.9	2267.0	1298.7	1189.5	1254.3	1278.3	1209.0	1156.6	1130.8
4378.5	40°	4360.8	3901.5	2020.9	1201.9	1137.1	1215.2	1173.5	1090.0	1023.3	986.9
4795.2	42.5°	4681.5	4080.1	1814.0	1129.1	1107.7	1183.2	1096.2	996.7	889.2	877.7
5291.7	45°	5018.1	4263.9	1672.7	1073.1	1093.5	1155.7	1051.8	891.0	814.6	861.7
5790.1	47.5°	5354.8	4432.7	1587.4	1031.3	1086.4	1124.6	1012.7	832.4	778.2	846.6
6324.0	50°	5729.7	4583.7	1549.2	1001.1	1078.4	1112.2	954.1	817.3	740.0	785.3
6876.5	52.5°	6101.9	4701.0	1520.8	970.9	1066.9	1102.4	925.6	799.5	693.8	696.4
7432.6	55°	6473.2	4777.4	1489.7	931.0	1041.1	1081.1	923.0	779.9	659.1	646.7
8020.6	57.5°	6869.4	4820.9	1451.5	886.5	996.7	1026.9	920.3	764.8	648.5	628.0
8622.0	60°	7272.7	4884.9	1401.8	832.4	937.2	962.1	914.1	759.5	642.3	607.6
9188.8	62.5°	7634.2	4907.1	1342.3	780.8	860.8	898.1	900.8	755.1	625.4	565.9
9659.6	65°	7871.4	4811.1	1238.3	722.2	778.2	832.4	875.0	740.0	595.2	535.7
9892.3	67.5°	7861.6	4537.5	1075.8	646.7	698.2	759.5	837.7	714.2	558.8	498.3
9716.5	70°	7495.7	3997.4	869.7	558.8	610.3	681.3	789.7	676.0	515.2	457.5
8639.8	72.5°	6428.8	3128.7	631.6	455.7	508.1	600.5	727.5	629.8	470.8	421.1
6385.2	75°	4592.6	1980.1	428.2	350.0	395.3	509.0	650.3	575.6	429.9	422.8
3198.0	77.5°	2346.1	946.1	283.4	255.8	275.4	401.5	546.3	514.3	436.2	349.1
909.6	80°	763.1	349.1	178.6	174.1	183.0	267.4	422.8	422.0	330.5	237.2
220.3	82.5°	243.4	150.1	116.4	111.9	107.5	167.9	294.9	334.0	223.0	150.1
79.1	85°	96.8	89.7	68.4	63.1	45.3	79.1	154.6	222.1	166.1	108.4
20.4	87.5°	35.5	35.5	18.7	13.3	9.8	26.6	41.8	66.6	95.1	56.0
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>
2419.8
2607.2
2696.9
2679.2
2544.2
2324.7
2103.5
1938.3
1841.5
1803.3
1781.1
1758.9
1686.9
1522.6
1322.7
1137.1
989.6
889.2
886.5
878.5
819.0
715.1
655.6
630.7
610.3
565.9
535.7
501.0
462.8
418.4
398.9
310.9
209.6
149.2
111.0
55.1
0.0

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