

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: P940499

Luminaire Tested: **GALN-SB3C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19956 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

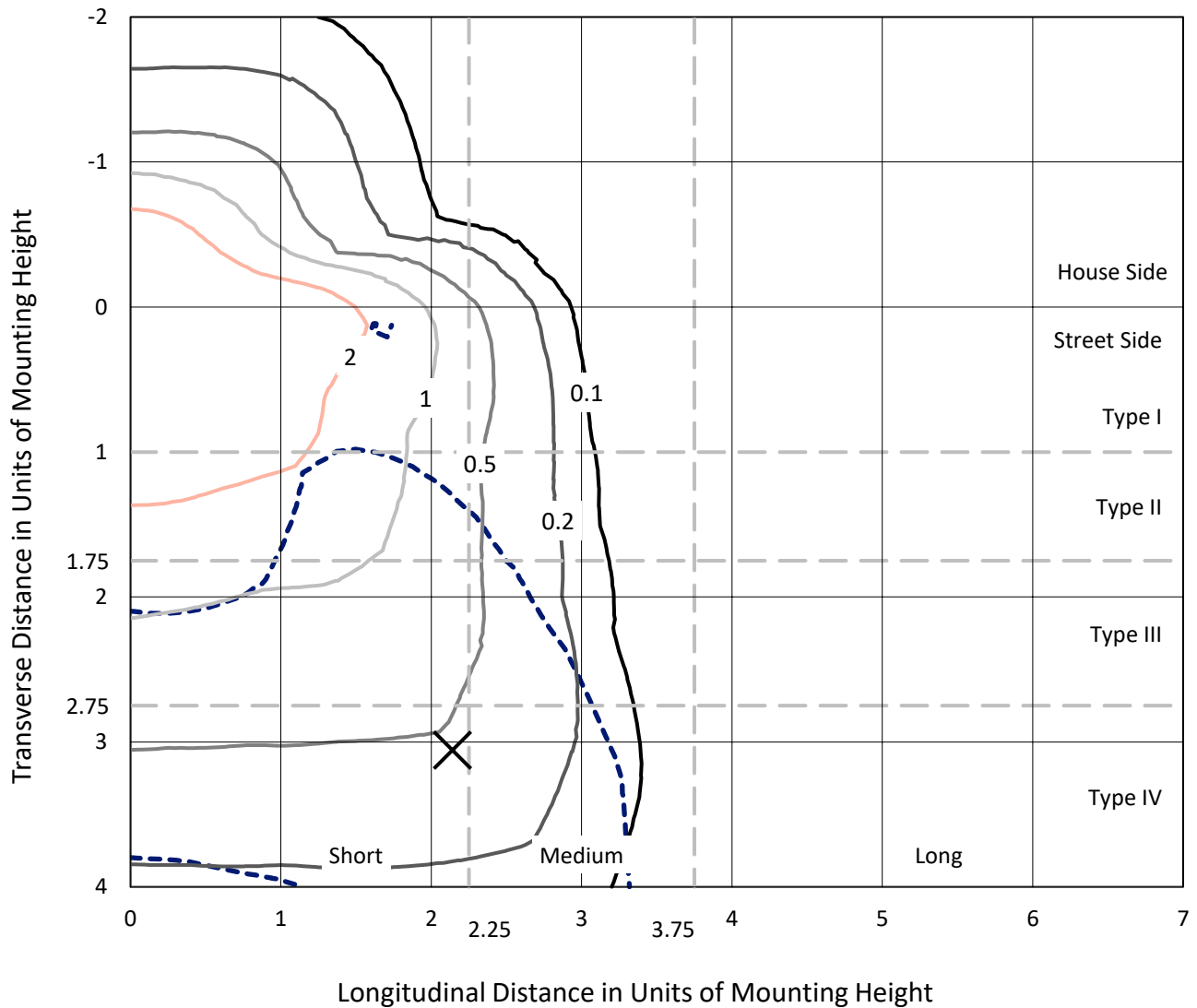
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

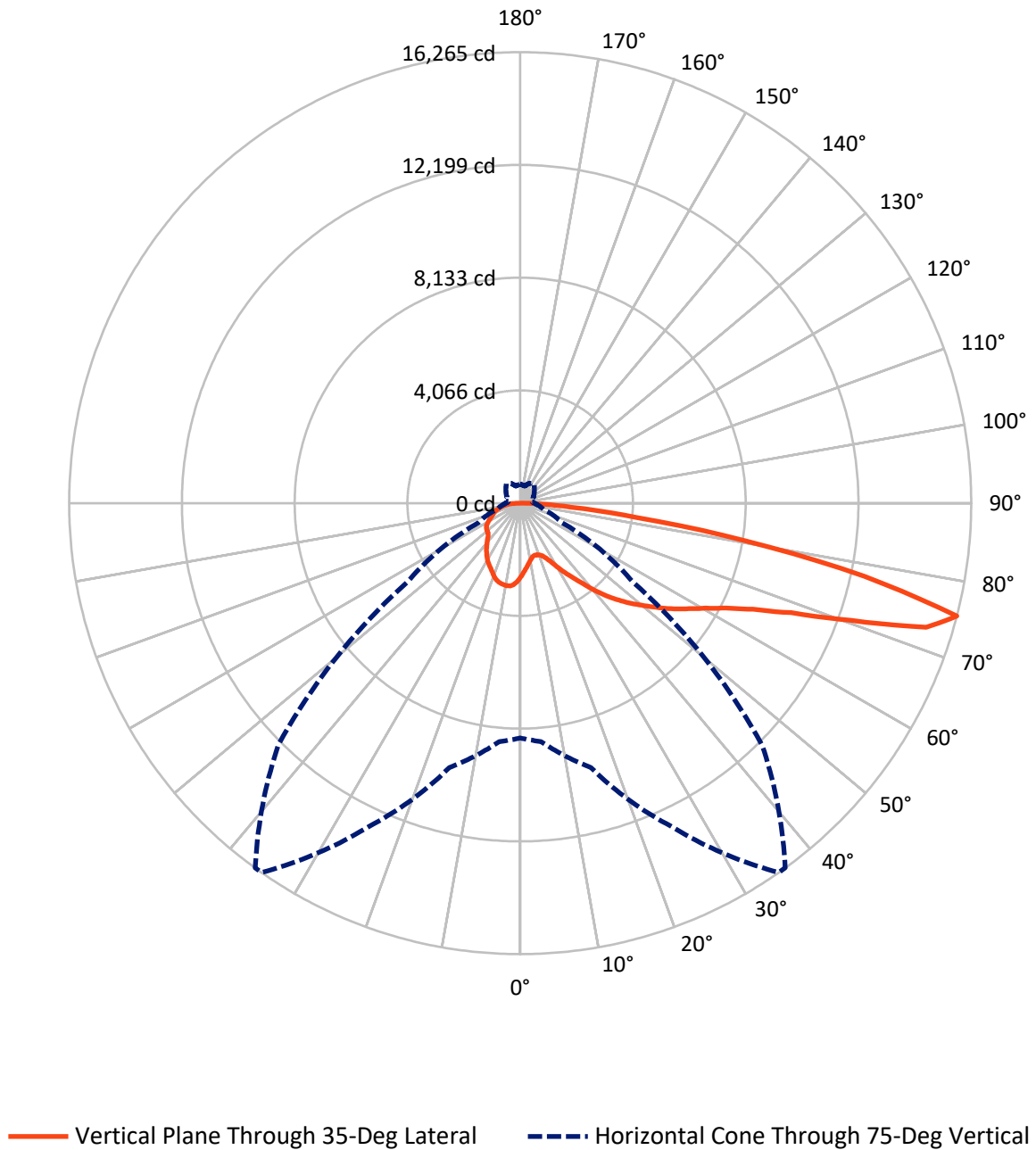
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4749.0	0.0	4749.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15207.0	0.0	15207.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	19956.0	0.0	19956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.3
10°-20°	726.2	3.6
20°-30°	1219.5	6.1
30°-40°	1895.3	9.5
40°-50°	2813.2	14.1
50°-60°	3883.8	19.5
60°-70°	4711.9	23.6
70°-80°	3894.1	19.5
80°-90°	560.1	2.8
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°	19956.0	100.0
0°-180°	19956.0	100.0

Coefficient of Utilization



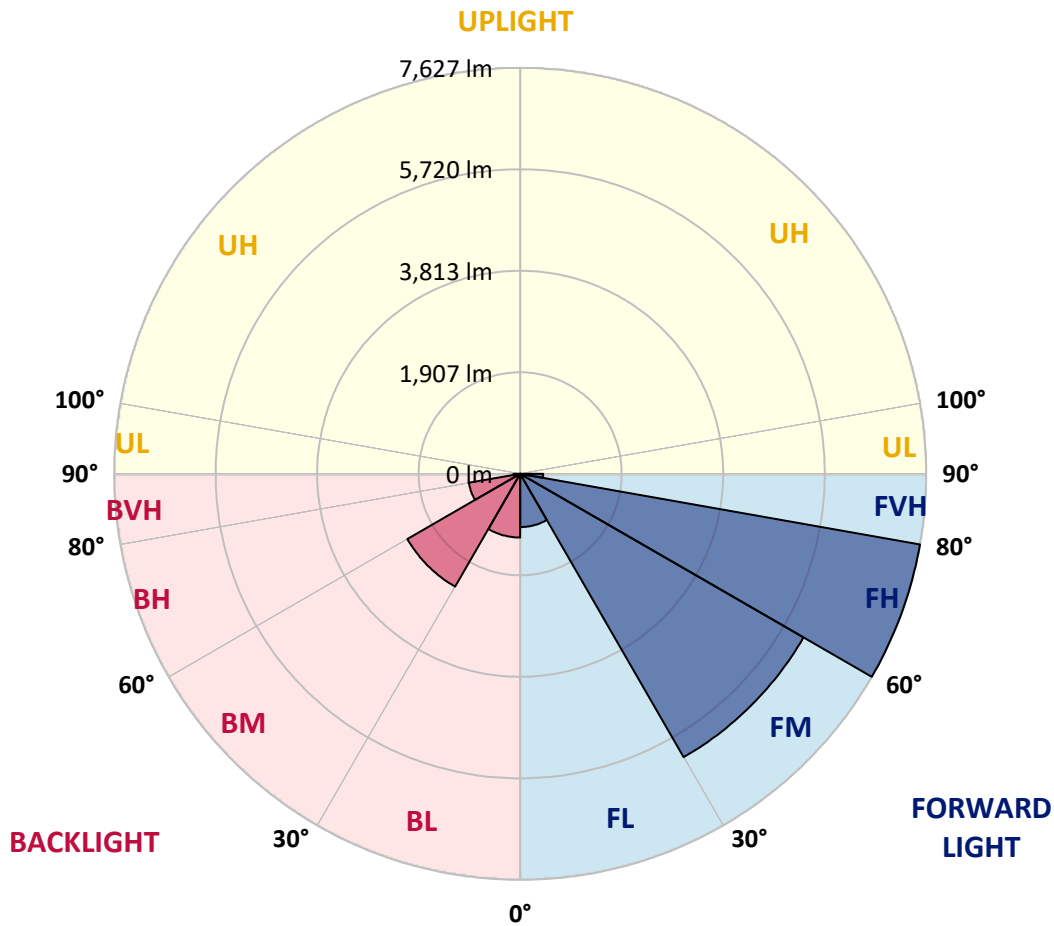
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.8	5.0			
FM (30°-60°)	6145.4	30.8			
FH (60°-80°)	7626.9	38.2			G4/12000
FVH (80°-90°)	434.0	2.2			G3/500
BL (0°-30°)	1196.8	6.0	B3/2500		
BM (30°-60°)	2447.0	12.3	B2/2500		
BH (60°-80°)	979.1	4.9	B2/1000		G2/1000
BVH (80°-90°)	126.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3
2.5°	2452.1	2467.2	2473.7	2470.5	2486.7	2484.5	2507.2	2535.2	2574.0	2611.8
5°	2263.3	2279.5	2293.6	2306.5	2337.8	2347.5	2383.1	2437.0	2508.2	2580.5
7.5°	2087.5	2101.5	2123.1	2146.8	2199.7	2209.4	2268.7	2352.9	2452.1	2557.9
10°	1944.0	1958.0	1980.7	2007.7	2073.5	2085.3	2160.9	2273.1	2402.5	2536.3
12.5°	1882.5	1886.8	1899.8	1926.8	1983.9	1991.5	2074.6	2202.9	2354.0	2520.1
15°	1879.3	1887.9	1889.0	1903.0	1950.5	1953.7	2030.3	2157.6	2323.8	2516.9
17.5°	1911.7	1918.1	1908.4	1917.0	1957.0	1962.4	2022.8	2136.0	2314.1	2530.9
20°	1998.0	2003.4	1974.2	1962.4	1991.5	1995.8	2055.1	2150.1	2323.8	2560.0
22.5°	2181.4	2184.6	2113.4	2064.8	2067.0	2069.2	2120.9	2207.2	2361.5	2612.9
25°	2467.2	2465.1	2351.8	2258.0	2204.0	2192.1	2226.7	2300.0	2425.2	2683.0
27.5°	2801.7	2785.5	2672.2	2532.0	2414.4	2397.1	2389.6	2420.9	2515.8	2775.8
30°	3179.3	3164.2	3042.3	2858.9	2696.0	2667.9	2596.7	2580.5	2650.6	2902.0
32.5°	3593.5	3583.8	3438.2	3215.9	2998.0	2965.7	2845.9	2802.8	2857.8	3093.0
35°	3940.9	3932.3	3811.4	3582.7	3316.3	3276.4	3154.4	3105.9	3133.9	3337.8
37.5°	4254.8	4250.5	4147.0	3966.8	3691.7	3643.1	3506.1	3490.0	3484.6	3660.4
40°	4546.1	4535.3	4427.4	4332.5	4128.6	4084.4	3963.6	3949.5	3908.5	4057.4
42.5°	4868.7	4840.6	4684.2	4640.0	4585.0	4548.3	4476.0	4478.1	4387.5	4505.1
45°	5131.9	5115.7	4955.0	4929.1	4988.4	4973.3	5035.9	5052.1	4876.2	4974.4
47.5°	5414.6	5399.5	5263.5	5245.2	5405.9	5410.2	5631.4	5636.8	5353.1	5462.0
50°	5763.0	5741.4	5606.6	5629.2	5809.4	5825.6	6230.1	6193.5	5792.1	5957.2
52.5°	5992.8	6005.7	5976.6	6013.3	6259.3	6274.4	6819.2	6725.3	6226.9	6445.9
55°	6162.2	6188.1	6278.7	6362.8	6733.9	6749.0	7374.8	7231.3	6587.2	6899.0
57.5°	6380.1	6343.4	6512.8	6676.8	7184.9	7224.8	7915.2	7718.9	6906.6	7289.5
60°	6693.0	6667.1	6798.7	7041.4	7689.8	7753.4	8487.0	8158.0	7140.7	7599.2
62.5°	7327.3	7262.6	7283.1	7497.7	8326.3	8410.4	9132.1	8541.0	7257.2	7720.0
65°	8275.6	8164.5	8060.9	8209.8	9222.8	9305.8	9860.3	8841.9	7214.0	7485.9
67.5°	9469.8	9359.8	9232.5	9372.7	10543.2	10609.0	10759.0	9011.3	6874.2	6584.0
70°	10454.8	10413.8	10565.9	11143.1	12652.3	12654.5	11911.2	8871.1	5943.2	4668.0
72.5°	10324.2	10299.4	11101.0	12885.3	15310.5	15253.3	13001.8	7809.5	4003.5	2105.8
75°	8469.8	8630.5	9872.2	12854.0	16265.3	16257.7	12334.1	4964.7	1656.0	872.8
77.5°	4541.8	4796.4	6409.2	9490.3	12697.6	12888.6	8671.5	1736.9	710.9	558.8
80°	1481.2	1703.4	2554.6	4832.0	8250.8	8215.2	3716.5	681.8	486.5	395.9
82.5°	628.9	654.8	1141.4	2281.7	4234.3	4168.5	1183.5	391.6	342.0	270.8
85°	246.0	275.1	503.8	1055.1	1834.0	1794.1	427.2	194.2	219.0	176.9
87.5°	80.9	98.2	180.2	361.4	570.7	550.2	104.6	66.9	94.9	80.9
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°
2659.3	0°	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3	2659.3
2666.8	2.5°	2681.9	2699.2	2719.7	2749.9	2775.8	2797.4	2820.0	2834.0	2839.4	2855.6
2671.1	5°	2701.3	2739.1	2789.8	2839.4	2888.0	2917.1	2943.0	2955.9	2967.8	2976.4
2683.0	7.5°	2733.7	2782.3	2862.1	2926.8	2967.8	2991.5	3008.8	3004.5	3008.8	3011.0
2696.0	10°	2761.8	2829.7	2924.7	2986.2	3017.4	3018.5	3014.2	2999.1	2991.5	2992.6
2715.4	12.5°	2795.2	2870.7	2973.2	3025.0	3033.6	3009.9	2991.5	2965.7	2955.9	2951.6
2744.5	15°	2840.5	2926.8	3026.1	3045.5	3023.9	2993.7	2962.4	2920.3	2898.8	2881.5
2794.1	17.5°	2895.5	2990.5	3067.1	3053.0	3006.6	2957.0	2906.3	2842.7	2798.4	2780.1
2862.1	20°	2972.1	3057.4	3098.3	3036.9	2966.7	2891.2	2804.9	2727.2	2686.2	2667.9
2948.4	22.5°	3064.9	3146.9	3128.6	3008.8	2909.6	2788.7	2680.8	2623.7	2603.2	2590.2
3059.5	25°	3176.0	3246.1	3150.1	2967.8	2815.7	2652.8	2569.7	2551.4	2541.7	2532.0
3195.4	27.5°	3320.6	3358.3	3166.3	2907.4	2669.0	2508.2	2478.0	2481.3	2478.0	2461.8
3384.2	30°	3511.5	3504.0	3181.4	2809.2	2500.7	2377.7	2379.9	2393.9	2396.0	2385.3
3647.5	32.5°	3762.9	3686.3	3189.0	2681.9	2339.9	2263.3	2265.5	2280.6	2291.4	2273.1
3991.6	35°	4067.1	3898.8	3177.1	2522.3	2215.9	2154.4	2138.2	2142.5	2145.8	2128.5
4409.1	37.5°	4422.1	4137.2	3124.2	2345.3	2113.4	2047.6	2013.1	1983.9	1966.7	1950.5
4881.6	40°	4811.5	4397.2	3027.1	2172.7	1999.0	1934.3	1882.5	1827.5	1769.3	1747.7
5382.2	42.5°	5219.3	4664.8	2909.6	2007.7	1867.4	1814.6	1759.5	1679.7	1592.3	1548.1
5902.2	45°	5642.2	4938.8	2794.1	1844.8	1732.6	1709.9	1646.3	1550.3	1455.3	1399.2
6423.2	47.5°	6056.5	5197.7	2624.8	1680.8	1606.4	1631.2	1581.5	1493.1	1387.4	1298.9
6940.0	50°	6452.4	5440.4	2347.5	1514.7	1503.9	1607.4	1560.0	1432.7	1311.8	1198.6
7447.0	52.5°	6845.1	5636.8	1992.6	1363.6	1448.8	1601.0	1531.9	1391.7	1243.9	1125.2
7923.9	55°	7178.4	5738.2	1650.6	1234.2	1369.0	1545.9	1498.5	1343.1	1147.9	1021.6
8250.8	57.5°	7368.3	5656.2	1365.8	1106.9	1259.0	1455.3	1441.3	1239.6	1033.5	936.4
8314.4	60°	7286.3	5323.9	1132.8	995.7	1154.3	1357.1	1342.0	1137.1	946.1	854.4
7973.5	62.5°	6834.3	4690.7	948.3	898.7	1059.4	1256.8	1242.8	1058.3	879.2	790.8
7068.4	65°	5923.8	3815.8	804.8	817.7	963.4	1136.0	1156.5	992.5	826.4	740.1
5468.5	67.5°	4518.1	2763.9	692.6	747.6	869.5	1017.3	1076.7	945.0	782.1	700.1
3164.2	70°	2575.1	1569.7	597.7	679.7	786.5	907.3	1015.2	907.3	734.7	666.7
1185.6	72.5°	976.3	720.6	516.8	611.7	706.6	814.5	947.2	847.9	679.7	628.9
612.8	75°	521.1	439.1	434.8	531.9	614.9	723.9	862.0	789.7	638.7	664.5
424.0	77.5°	354.9	310.7	363.6	455.3	514.6	623.6	771.4	701.2	553.4	551.3
293.4	80°	246.0	220.1	295.6	366.8	398.1	524.3	673.2	602.0	450.9	420.7
181.2	82.5°	147.8	143.5	221.2	274.0	281.6	404.6	557.7	504.9	369.0	321.5
107.9	85°	80.9	85.2	141.3	160.7	164.0	282.6	436.9	390.5	283.7	238.4
38.8	87.5°	22.7	29.1	51.8	63.6	78.8	146.7	260.0	231.9	142.4	99.3
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>
2659.3
2854.5
2978.6
3014.2
2994.8
2949.5
2886.9
2781.2
2665.7
2592.4
2532.0
2465.1
2390.6
2281.7
2140.4
1961.3
1757.4
1553.5
1394.9
1289.2
1188.9
1112.3
1010.8
923.5
841.5
776.7
726.0
687.2
658.1
620.3
<i>686.1</i>
508.1
402.4
323.6
240.6
99.3
0.0

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