

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: P952305

Luminaire Tested: **GALN-SB6A-940-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-940-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

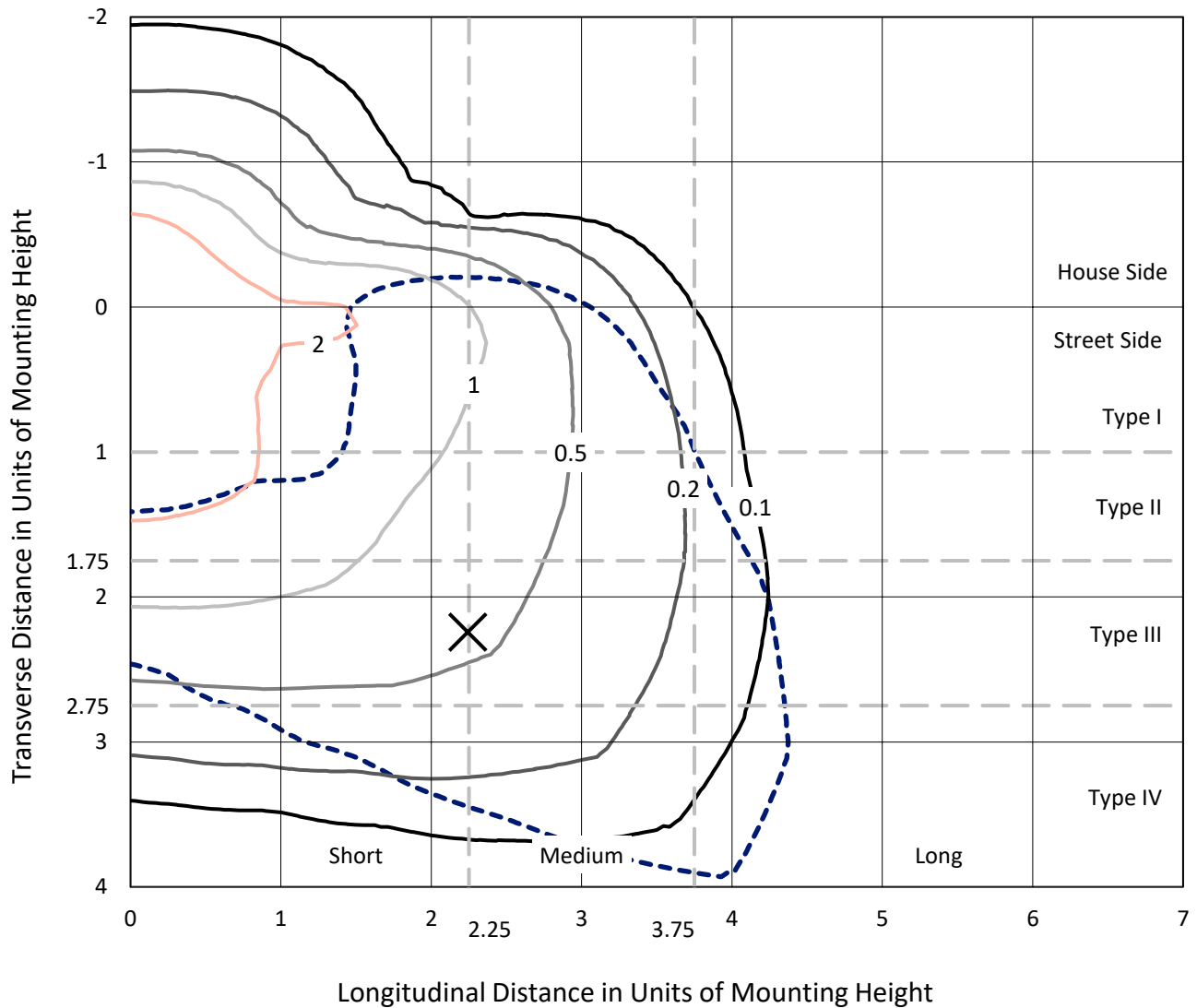
Lumens per Lamp: N/A  
Luminaire Lumens: 19673 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

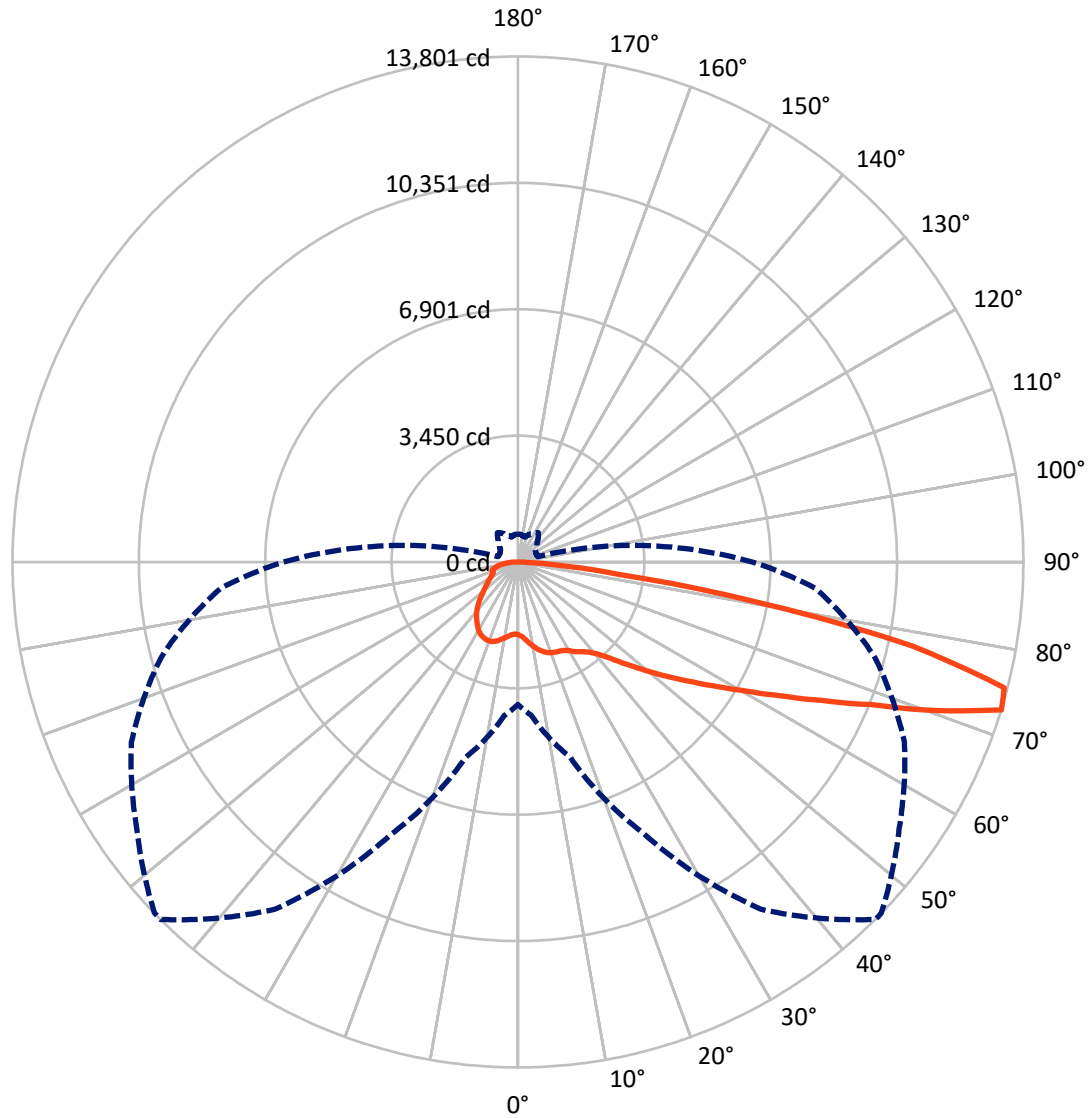
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4447.4	0.0	4447.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	15225.6	0.0	15225.6
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	19673.0	0.0	19673.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.0	1.0
10°-20°	673.5	3.4
20°-30°	1171.6	6.0
30°-40°	1679.5	8.5
40°-50°	2364.8	12.0
50°-60°	3622.2	18.4
60°-70°	5247.3	26.7
70°-80°	4190.3	21.3
80°-90°	521.9	2.7
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°	19673.0	100.0
0°-180°	19673.0	100.0



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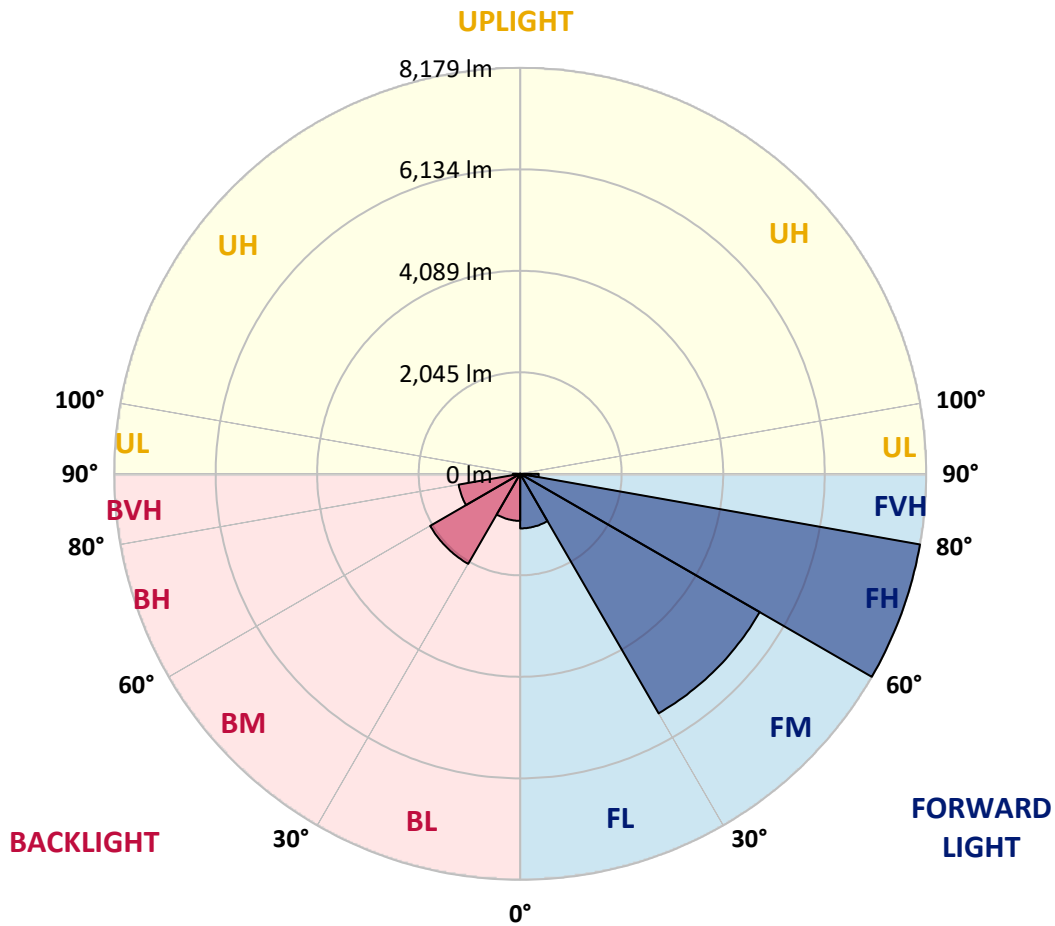
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.1	5.6			
FM (30°-60°)	5572.4	28.3			
FH (60°-80°)	8178.6	41.6			G4/12000
FVH (80°-90°)	374.4	1.9			G3/500
BL (0°-30°)	946.9	4.8	B2/1000		
BM (30°-60°)	2094.1	10.6	B2/2500		
BH (60°-80°)	1258.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	147.5	0.7			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°	45°	46°	55°	65°	75°
0°	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6
2.5°	2062.3	2075.8	2063.4	2052.0	2046.8	2033.3	2032.3	2024.0	2018.8	2004.3
5°	2206.4	2224.0	2203.3	2180.5	2159.8	2126.6	2122.5	2098.6	2071.7	2040.6
7.5°	2369.1	2384.7	2360.8	2326.6	2290.3	2235.4	2234.4	2190.9	2148.4	2095.5
10°	2511.1	2531.8	2499.7	2453.1	2407.5	2345.3	2338.0	2288.3	2234.4	2166.0
12.5°	2636.5	2651.0	2619.9	2562.9	2510.1	2447.9	2438.5	2383.6	2323.5	2245.8
15°	2736.0	2754.6	2713.2	2652.0	2596.1	2534.9	2526.6	2476.9	2416.8	2334.9
17.5°	2801.3	2816.8	2774.3	2705.9	2652.0	2601.3	2595.0	2553.6	2500.7	2417.8
20°	2826.1	2842.7	2798.2	2728.7	2679.0	2639.6	2636.5	2606.4	2570.2	2494.5
22.5°	2851.0	2866.6	2808.5	2736.0	2692.5	2667.6	2666.5	2646.9	2632.3	2570.2
25°	2951.5	2955.7	2878.0	2773.3	2711.1	2689.3	2688.3	2687.3	2693.5	2644.8
27.5°	3038.6	3037.6	2971.2	2872.8	2776.4	2730.8	2729.8	2740.1	2759.8	2719.4
30°	3166.1	3154.7	3075.9	2973.3	2885.2	2814.7	2808.5	2799.2	2814.7	2782.6
32.5°	3436.6	3400.3	3272.8	3090.4	2975.4	2921.5	2913.2	2855.2	2861.4	2841.7
35°	3824.2	3776.5	3606.5	3312.2	3087.3	3010.6	3006.5	2932.9	2920.5	2902.8
37.5°	4285.3	4226.3	4028.3	3633.5	3280.1	3114.3	3108.0	3041.7	2990.9	2972.3
40°	4748.6	4674.0	4510.2	4025.2	3564.0	3287.3	3267.6	3167.1	3109.1	3078.0
42.5°	5198.4	5136.2	4996.3	4464.6	3914.3	3540.2	3496.7	3324.6	3281.1	3252.1
45°	5596.3	5540.4	5437.8	4934.1	4324.7	3884.3	3841.8	3560.9	3547.4	3547.4
47.5°	5919.7	5907.2	5798.4	5412.9	4808.7	4276.0	4202.4	3889.4	3925.7	3981.7
50°	6278.2	6244.0	6128.0	5884.4	5377.7	4724.7	4664.6	4292.6	4428.4	4581.7
52.5°	6607.8	6626.5	6496.9	6375.7	6020.2	5225.3	5119.6	4768.3	5061.6	5315.5
55°	6946.7	6947.7	6911.5	6894.9	6693.8	5778.7	5662.7	5340.3	5806.7	6121.8
57.5°	7264.9	7266.9	7320.8	7466.9	7475.2	6417.1	6285.5	6043.0	6634.8	6956.0
60°	7548.8	7563.3	7710.5	8052.5	8162.3	7148.8	7024.4	6873.1	7490.8	7814.1
62.5°	7644.2	7697.0	8024.5	8510.6	8841.2	8046.3	7924.0	7833.8	8390.3	8690.9
65°	7482.5	7603.7	8237.0	8888.8	9539.7	9112.7	8991.4	8893.0	9325.1	9608.1
67.5°	7085.6	7242.1	8224.5	9285.8	10387.4	10395.7	10282.7	10051.6	10327.3	10436.1
70°	6039.9	6274.1	7500.1	9434.0	11360.5	12150.2	12041.4	11446.6	11327.4	10800.9
72.5°	3891.5	4206.6	5522.7	8214.2	11577.1	13801.2	13794.9	12705.7	11643.5	10092.0
75°	1419.8	1612.6	2566.0	5155.9	9717.9	13717.2	13757.6	12490.2	10628.9	7795.5
77.5°	517.1	565.9	837.4	1981.5	5976.7	11006.1	11090.1	9985.3	7565.4	3912.2
80°	271.5	298.5	429.1	769.0	2560.8	6536.3	6667.9	5934.2	3555.7	1178.3
82.5°	150.3	162.7	240.4	417.7	1153.5	2795.1	2873.8	2344.2	1250.9	499.5
85°	80.8	86.0	113.0	228.0	563.8	969.0	990.8	700.6	498.5	293.3
87.5°	23.8	29.0	37.3	72.5	220.7	217.6	222.8	138.9	196.9	148.2
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°
1984.6	0°	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6	1984.6
2000.2	2.5°	1994.0	1990.8	1979.4	1974.3	1968.0	1967.0	1972.2	1973.2	1974.3	1975.3
2023.0	5°	2012.6	2002.2	1991.9	1985.7	1987.7	1988.8	1999.1	2006.4	2011.6	2015.7
2065.5	7.5°	2048.9	2040.6	2023.0	2021.9	2025.0	2034.4	2047.8	2064.4	2073.7	2081.0
2120.4	10°	2102.8	2087.2	2066.5	2069.6	2075.8	2089.3	2117.3	2130.7	2146.3	2159.8
2187.7	12.5°	2157.7	2144.2	2120.4	2122.5	2132.8	2156.7	2183.6	2200.2	2210.5	2220.9
2260.3	15°	2229.2	2205.4	2179.5	2179.5	2198.1	2224.0	2236.5	2249.9	2256.1	2267.5
2338.0	17.5°	2302.8	2271.7	2237.5	2235.4	2258.2	2270.7	2277.9	2280.0	2282.1	2294.5
2413.7	20°	2376.4	2342.2	2293.5	2289.3	2294.5	2292.4	2291.4	2289.3	2292.4	2308.0
2491.4	22.5°	2448.9	2409.5	2342.2	2323.5	2309.0	2289.3	2288.3	2287.2	2289.3	2304.9
2575.3	25°	2533.9	2486.2	2396.1	2340.1	2291.4	2264.4	2267.5	2268.6	2270.7	2283.1
2662.4	27.5°	2626.1	2573.3	2445.8	2334.9	2246.8	2228.2	2223.0	2226.1	2233.3	2253.0
2749.5	30°	2718.4	2656.2	2491.4	2314.2	2190.9	2164.9	2148.4	2155.6	2178.4	2198.1
2825.1	32.5°	2802.3	2740.1	2527.7	2268.6	2119.3	2078.9	2057.2	2066.5	2089.3	2096.5
2909.1	35°	2900.8	2830.3	2543.2	2196.0	2041.6	1979.4	1950.4	1937.0	1948.4	1941.1
3007.5	37.5°	3010.6	2937.0	2541.1	2100.7	1950.4	1878.9	1838.5	1787.7	1763.9	1739.0
3152.6	40°	3173.3	3067.6	2516.3	1985.7	1837.5	1772.2	1699.6	1613.6	1559.7	1511.0
3386.8	42.5°	3395.1	3249.0	2470.7	1859.2	1710.0	1648.8	1550.4	1449.9	1364.9	1284.0
3742.3	45°	3725.7	3486.3	2413.7	1724.5	1572.2	1512.0	1405.3	1292.3	1196.0	1092.3
4247.0	47.5°	4202.4	3805.5	2359.8	1571.1	1427.1	1372.1	1275.8	1171.1	1057.1	956.6
4976.6	50°	4857.4	4263.6	2310.0	1421.9	1284.0	1242.6	1165.9	1059.2	944.1	863.3
5831.6	52.5°	5690.6	4886.4	2289.3	1277.8	1150.4	1134.8	1073.7	974.2	865.4	797.0
6828.6	55°	6647.2	5631.6	2289.3	1140.0	1033.2	1038.4	995.9	903.7	809.4	748.2
7856.6	57.5°	7623.4	6386.0	2247.9	1012.5	933.8	955.5	928.6	847.7	762.8	699.5
8937.5	60°	8523.0	7018.2	2080.0	896.4	845.7	879.9	862.2	792.8	689.2	636.3
9841.2	62.5°	9214.2	7374.7	1756.6	804.2	773.1	812.5	803.2	720.3	675.7	653.9
10583.3	65°	9560.4	7316.7	1343.1	722.3	712.0	773.1	753.4	750.3	715.1	690.2
10824.7	67.5°	9347.9	6817.2	974.2	662.2	676.7	736.8	812.5	824.9	759.6	710.9
10144.9	70°	8416.3	5913.5	725.4	605.2	632.2	737.9	926.5	863.3	745.1	688.1
8136.4	72.5°	6402.6	4409.7	562.7	545.1	574.1	743.1	977.3	845.7	703.7	760.7
5068.8	75°	3661.4	2420.9	451.9	471.5	501.6	694.4	951.4	800.1	671.6	698.5
2008.5	77.5°	1396.0	930.6	373.1	399.0	403.1	606.3	909.9	797.0	639.4	623.9
602.1	80°	484.0	363.8	308.8	317.1	311.9	538.9	872.6	693.3	523.4	468.4
248.7	82.5°	197.9	181.4	244.6	234.2	221.8	418.7	704.7	566.9	428.0	378.3
120.2	85°	86.0	115.0	161.7	142.0	128.5	290.2	564.8	479.8	361.7	311.9
39.4	87.5°	17.6	43.5	68.4	64.3	66.3	193.8	401.1	341.0	256.0	191.7
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>
1984.6
1979.4
2017.8
2083.1
2156.7
2225.1
2271.7
2298.6
2314.2
2315.2
2299.7
2272.7
2219.9
2122.5
1963.9
1754.6
1514.1
1276.8
1079.9
945.2
858.1
791.8
742.0
689.2
628.0
646.7
681.9
702.6
678.8
754.5
698.5
569.0
452.9
374.1
310.9
150.3
0.0

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