

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: P939949

Luminaire Tested: **GALN-SB2D-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939949  
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-SB2D-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

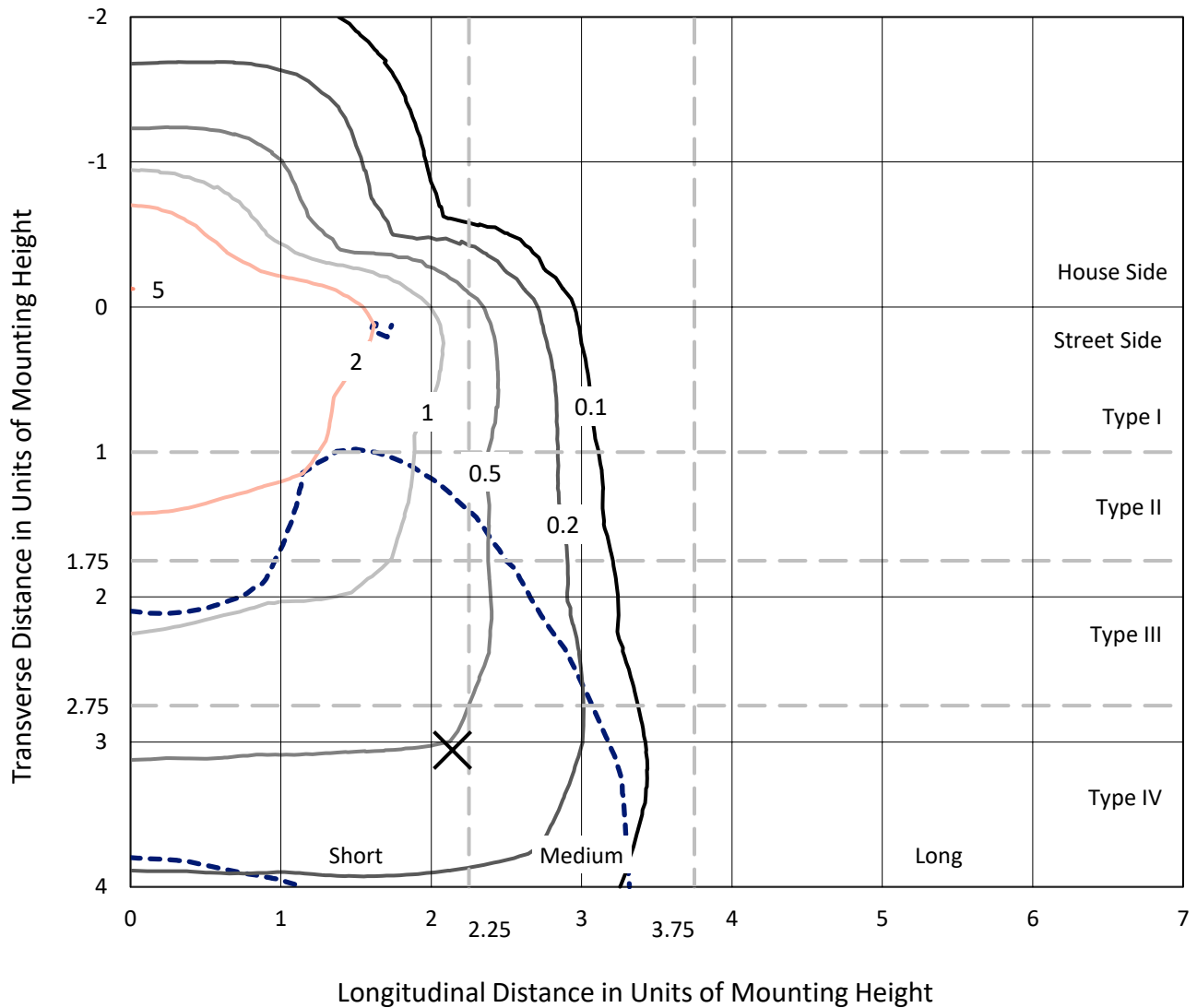
Lumens per Lamp: N/A  
Luminaire Lumens: 21280 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

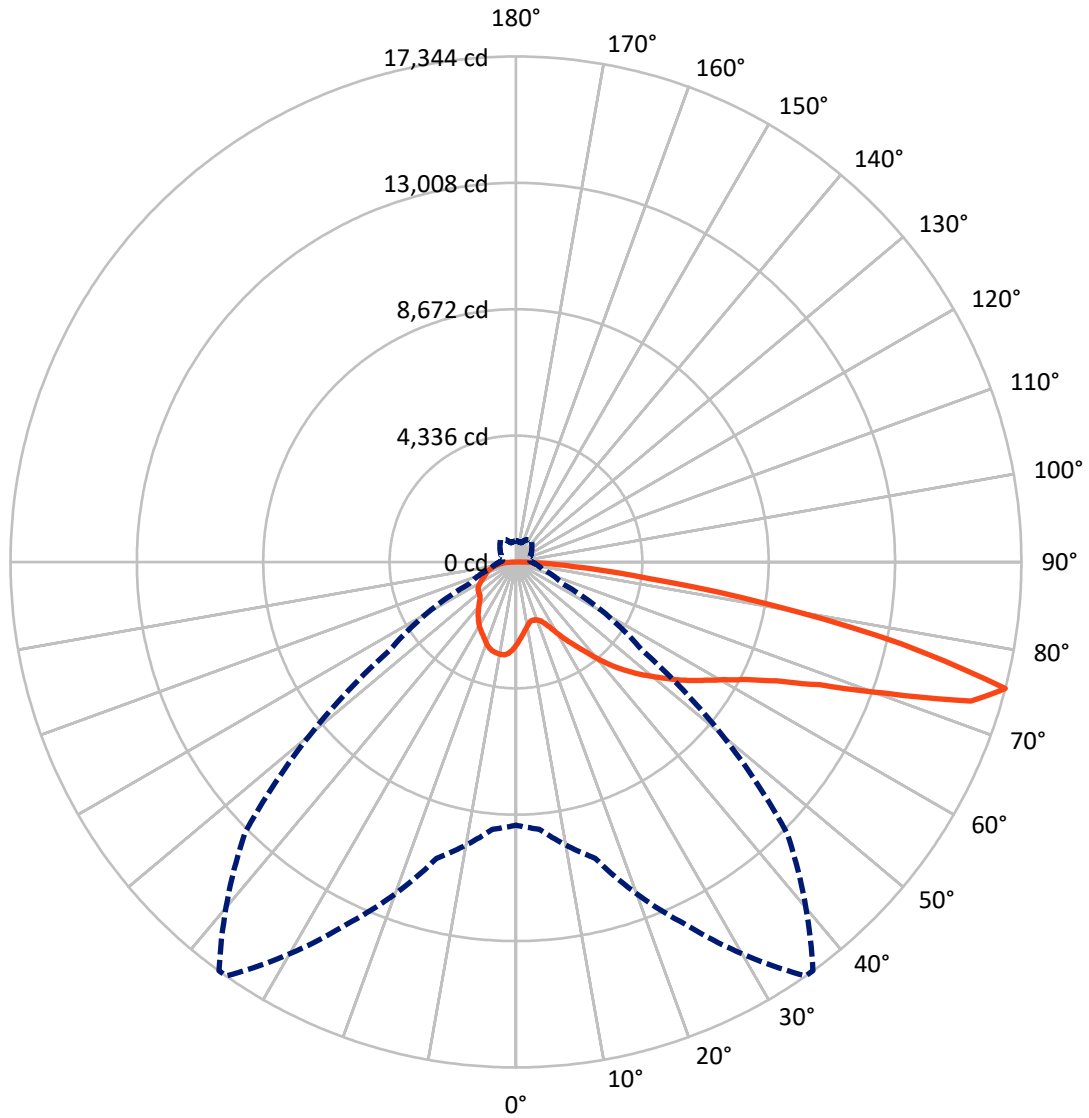
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5064.1	0.0	5064.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	16215.9	0.0	16215.9
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	21280.0	0.0	21280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.5	1.3
10°-20°	774.4	3.6
20°-30°	1300.5	6.1
30°-40°	2021.1	9.5
40°-50°	2999.9	14.1
50°-60°	4141.5	19.5
60°-70°	5024.5	23.6
70°-80°	4152.4	19.5
80°-90°	597.2	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°	21280.0	100.0
0°-180°	21280.0	100.0

**Coefficient of Utilization**



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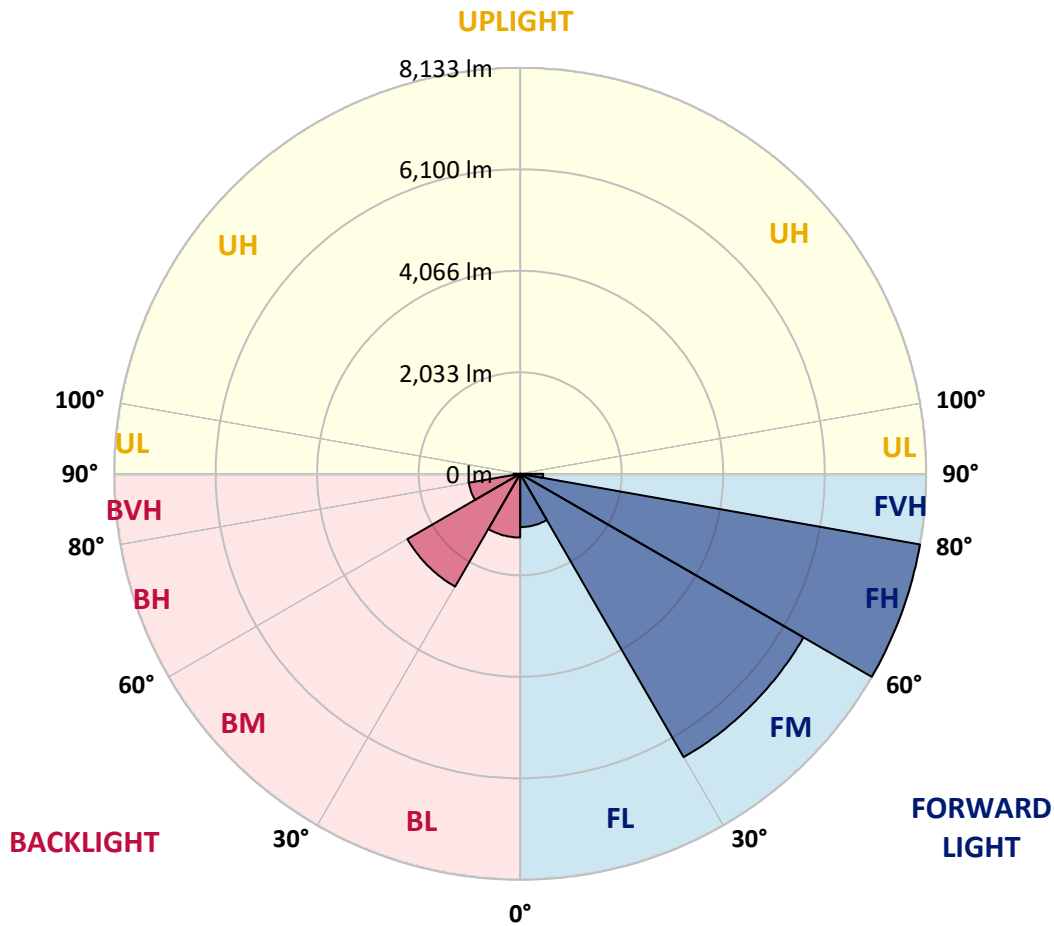
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.1	5.0			
FM (30°-60°)	6553.1	30.8			
FH (60°-80°)	8132.9	38.2			G4/12000
FVH (80°-90°)	462.8	2.2			G3/500
BL (0°-30°)	1276.2	6.0	B3/2500		
BM (30°-60°)	2609.3	12.3	B3/5000		
BH (60°-80°)	1044.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	134.5	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°	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7
2.5°	2614.8	2630.9	2637.8	2634.4	2651.6	2649.3	2673.5	2703.4	2744.8	2785.1
5°	2413.5	2430.8	2445.7	2459.5	2492.9	2503.2	2541.2	2598.7	2674.6	2751.7
7.5°	2226.0	2241.0	2264.0	2289.3	2345.6	2356.0	2419.3	2509.0	2614.8	2727.6
10°	2073.0	2088.0	2112.1	2140.9	2211.0	2223.7	2304.2	2423.9	2561.9	2704.6
12.5°	2007.4	2012.0	2025.8	2054.6	2115.6	2123.6	2212.2	2349.1	2510.1	2687.3
15°	2004.0	2013.2	2014.3	2029.3	2079.9	2083.4	2165.0	2300.8	2477.9	2683.9
17.5°	2038.5	2045.4	2035.0	2044.2	2086.8	2092.6	2157.0	2277.8	2467.6	2698.8
20°	2130.5	2136.3	2105.2	2092.6	2123.6	2128.2	2191.5	2292.7	2477.9	2729.9
22.5°	2326.1	2329.5	2253.6	2201.8	2204.1	2206.4	2261.7	2353.7	2518.2	2786.2
25°	2630.9	2628.6	2507.8	2407.8	2350.2	2337.6	2374.4	2452.6	2586.1	2861.0
27.5°	2987.6	2970.3	2849.5	2700.0	2574.6	2556.2	2548.1	2581.5	2682.7	2959.9
30°	3390.2	3374.1	3244.1	3048.5	2874.8	2844.9	2769.0	2751.7	2826.5	3094.5
32.5°	3831.9	3821.6	3666.3	3429.3	3196.9	3162.4	3034.7	2988.7	3047.4	3298.2
35°	4202.4	4193.2	4064.3	3820.4	3536.3	3493.7	3363.7	3312.0	3341.9	3559.3
37.5°	4537.1	4532.5	4422.1	4230.0	3936.6	3884.9	3738.8	3721.5	3715.8	3903.3
40°	4847.7	4836.2	4721.2	4620.0	4402.5	4355.4	4226.5	4211.6	4167.9	4326.6
42.5°	5191.7	5161.8	4995.0	4947.8	4889.1	4850.0	4773.0	4775.3	4678.6	4804.0
45°	5472.4	5455.1	5283.7	5256.1	5319.4	5303.3	5370.0	5387.3	5199.7	5304.4
47.5°	5773.8	5757.7	5612.7	5593.2	5764.6	5769.2	6005.0	6010.8	5708.2	5824.4
50°	6145.4	6122.4	5978.6	6002.7	6194.8	6212.1	6643.5	6604.4	6176.4	6352.4
52.5°	6390.4	6404.2	6373.1	6412.3	6674.5	6690.7	7271.6	7171.5	6640.0	6873.6
55°	6571.0	6598.6	6695.3	6785.0	7180.7	7196.8	7864.0	7711.0	7024.3	7356.7
57.5°	6803.4	6764.3	6944.9	7119.7	7661.6	7704.1	8440.4	8231.0	7364.8	7773.2
60°	7137.0	7109.4	7249.7	7508.6	8200.0	8267.8	9050.1	8699.2	7614.4	8103.3
62.5°	7813.4	7744.4	7766.3	7995.2	8878.7	8968.4	9738.0	9107.6	7738.7	8232.2
65°	8824.6	8706.1	8595.7	8754.4	9834.7	9923.2	10514.5	9428.6	7692.6	7982.5
67.5°	10098.1	9980.8	9845.0	9994.6	11242.7	11312.9	11472.8	9609.2	7330.3	7020.8
70°	11148.4	11104.7	11266.9	11882.3	13491.7	13494.0	12701.4	9459.6	6337.5	4977.7
72.5°	11009.2	10982.7	11837.5	13740.2	16326.3	16265.3	13864.5	8327.7	4269.1	2245.6
75°	9031.7	9203.1	10527.2	13706.9	17344.4	17336.3	13152.4	5294.1	1765.8	930.7
77.5°	4843.1	5114.6	6834.4	10120.0	13540.1	13743.7	9246.8	1852.1	758.1	595.9
80°	1579.5	1816.5	2724.1	5152.6	8798.2	8760.2	3963.1	727.0	518.8	422.2
82.5°	670.7	698.3	1217.1	2433.1	4515.3	4445.1	1262.0	417.6	364.7	288.7
85°	262.3	293.3	537.2	1125.1	1955.7	1913.1	455.6	207.1	233.5	188.7
87.5°	86.3	104.7	192.1	385.4	608.6	586.7	111.6	71.3	101.2	86.3
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°
2835.7	0°	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7	2835.7
2843.8	2.5°	2859.9	2878.3	2900.1	2932.3	2959.9	2983.0	3007.1	3022.1	3027.8	3045.1
2848.4	5°	2880.6	2920.8	2974.9	3027.8	3079.6	3110.6	3138.3	3152.1	3164.7	3173.9
2861.0	7.5°	2915.1	2966.8	3052.0	3121.0	3164.7	3190.0	3208.4	3203.8	3208.4	3210.7
2874.8	10°	2945.0	3017.5	3118.7	3184.3	3217.6	3218.8	3214.2	3198.1	3190.0	3191.2
2895.5	12.5°	2980.7	3061.2	3170.5	3225.7	3234.9	3209.6	3190.0	3162.4	3152.1	3147.5
2926.6	15°	3029.0	3121.0	3226.8	3247.5	3224.5	3192.3	3159.0	3114.1	3091.1	3072.7
2979.5	17.5°	3087.6	3188.9	3270.6	3255.6	3206.1	3153.2	3099.1	3031.3	2984.1	2964.5
3052.0	20°	3169.3	3260.2	3303.9	3238.3	3163.6	3083.0	2991.0	2908.2	2864.5	2844.9
3144.0	22.5°	3268.2	3355.7	3336.1	3208.4	3102.6	2973.8	2858.7	2797.7	2775.9	2762.1
3262.5	25°	3386.7	3461.5	3359.1	3164.7	3002.5	2828.8	2740.2	2720.7	2710.3	2700.0
3407.4	27.5°	3540.9	3581.2	3376.4	3100.3	2846.1	2674.6	2642.4	2645.9	2642.4	2625.2
3608.8	30°	3744.5	3736.5	3392.5	2995.6	2666.6	2535.5	2537.8	2552.7	2555.0	2543.5
3889.5	32.5°	4012.5	3930.9	3400.5	2859.9	2495.2	2413.5	2415.8	2431.9	2443.4	2423.9
4256.4	35°	4337.0	4157.5	3387.9	2689.6	2362.9	2297.3	2280.1	2284.7	2288.1	2269.7
4701.6	37.5°	4715.4	4411.7	3331.5	2500.9	2253.6	2183.4	2146.6	2115.6	2097.2	2079.9
5205.5	40°	5130.7	4689.0	3228.0	2316.9	2131.7	2062.6	2007.4	1948.8	1886.6	1863.6
5739.3	42.5°	5565.6	4974.3	3102.6	2140.9	1991.3	1935.0	1876.3	1791.2	1698.0	1650.8
6293.8	45°	6016.5	5266.5	2979.5	1967.2	1847.5	1823.4	1755.5	1653.1	1551.9	1492.1
6849.4	47.5°	6458.3	5542.6	2798.9	1792.3	1712.9	1739.4	1686.5	1592.1	1479.4	1385.1
7400.4	50°	6880.5	5801.4	2503.2	1615.1	1603.6	1714.1	1663.5	1527.7	1398.9	1278.1
7941.1	52.5°	7299.2	6010.8	2124.8	1454.1	1545.0	1707.2	1633.5	1484.0	1326.4	1199.9
8449.6	55°	7654.7	6118.9	1760.1	1316.0	1459.8	1648.5	1597.9	1432.2	1224.0	1089.4
8798.2	57.5°	7857.1	6031.5	1456.4	1180.3	1342.5	1551.9	1536.9	1321.8	1102.1	998.5
8866.0	60°	7769.7	5677.2	1207.9	1061.8	1230.9	1447.2	1431.1	1212.5	1008.9	911.1
8502.5	62.5°	7287.7	5001.9	1011.2	958.3	1129.7	1340.2	1325.2	1128.5	937.6	843.2
7537.3	65°	6316.8	4068.9	858.2	872.0	1027.3	1211.4	1233.2	1058.4	881.2	789.2
5831.3	67.5°	4817.8	2947.3	738.5	797.2	927.2	1084.8	1148.1	1007.7	834.0	746.6
3374.1	70°	2746.0	1673.8	637.3	724.7	838.6	967.5	1082.5	967.5	783.4	710.9
1264.3	72.5°	1041.1	768.5	551.0	652.3	753.5	868.5	1010.0	904.2	724.7	670.7
653.4	75°	555.6	468.2	463.6	567.1	655.7	771.9	919.2	842.1	681.0	708.6
452.1	77.5°	378.5	331.3	387.7	485.5	548.7	664.9	822.5	747.8	590.1	587.8
312.9	80°	262.3	234.7	315.2	391.1	424.5	559.1	717.8	641.9	480.9	448.7
193.3	82.5°	157.6	153.0	235.8	292.2	300.3	431.4	594.8	538.4	393.4	342.8
115.0	85°	86.3	90.9	150.7	171.4	174.9	301.4	465.9	416.4	302.6	254.2
41.4	87.5°	24.2	31.1	55.2	67.9	84.0	156.5	277.2	247.3	151.9	105.8
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>
2835.7
3043.9
3176.2
3214.2
3193.5
3145.2
3078.4
2965.7
2842.6
2764.4
2700.0
2628.6
2549.3
2433.1
2282.4
2091.4
1874.0
1656.6
1487.5
1374.7
1267.7
1186.0
1077.9
984.7
897.3
828.3
774.2
732.8
701.7
661.5
731.6
541.8
429.1
345.1
256.5
105.8
0.0

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