

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: P947515

Luminaire Tested: **GALN-SB2D-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947515  
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-SB2D-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

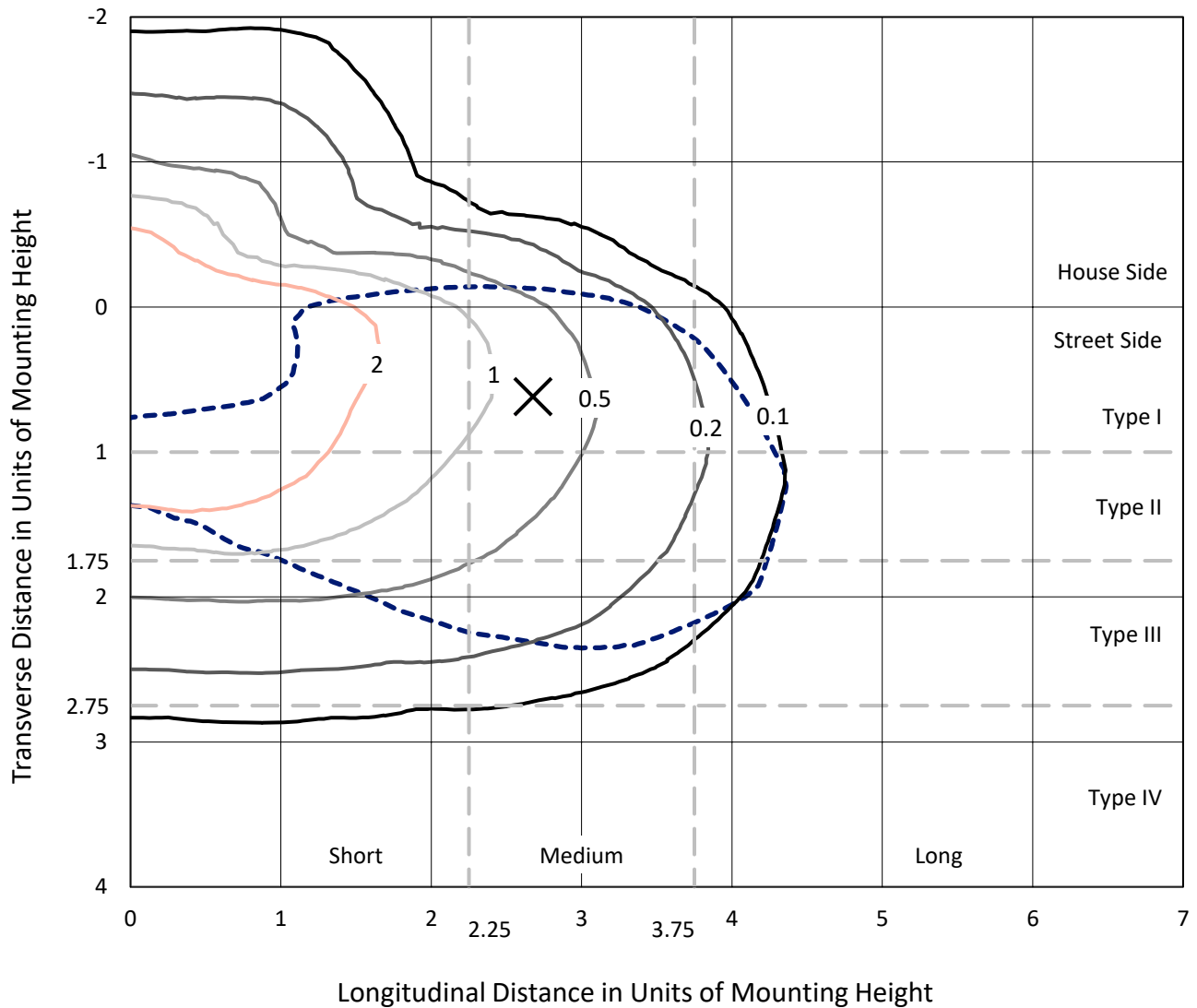
Lumens per Lamp: N/A  
Luminaire Lumens: 18772 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

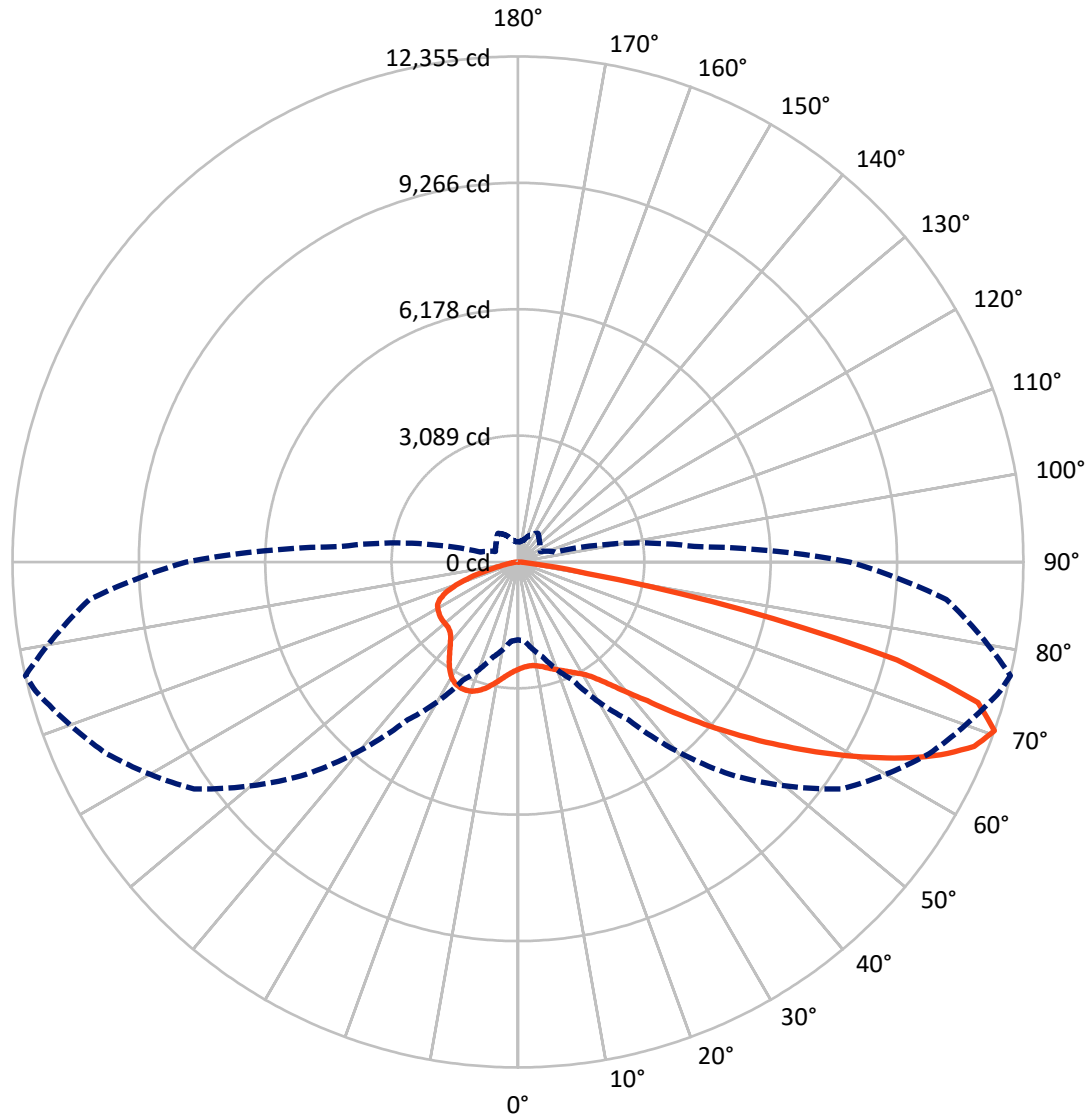
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type 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
<b>House Side</b>	Lumens	4110.8	0.0	4110.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	14661.2	0.0	14661.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	18772.0	0.0	18772.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.8	1.3
10°-20°	720.9	3.8
20°-30°	1232.8	6.6
30°-40°	1982.4	10.6
40°-50°	3095.1	16.5
50°-60°	4134.3	22.0
60°-70°	4406.5	23.5
70°-80°	2712.6	14.5
80°-90°	237.7	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°	18772.0	100.0
0°-180°	18772.0	100.0



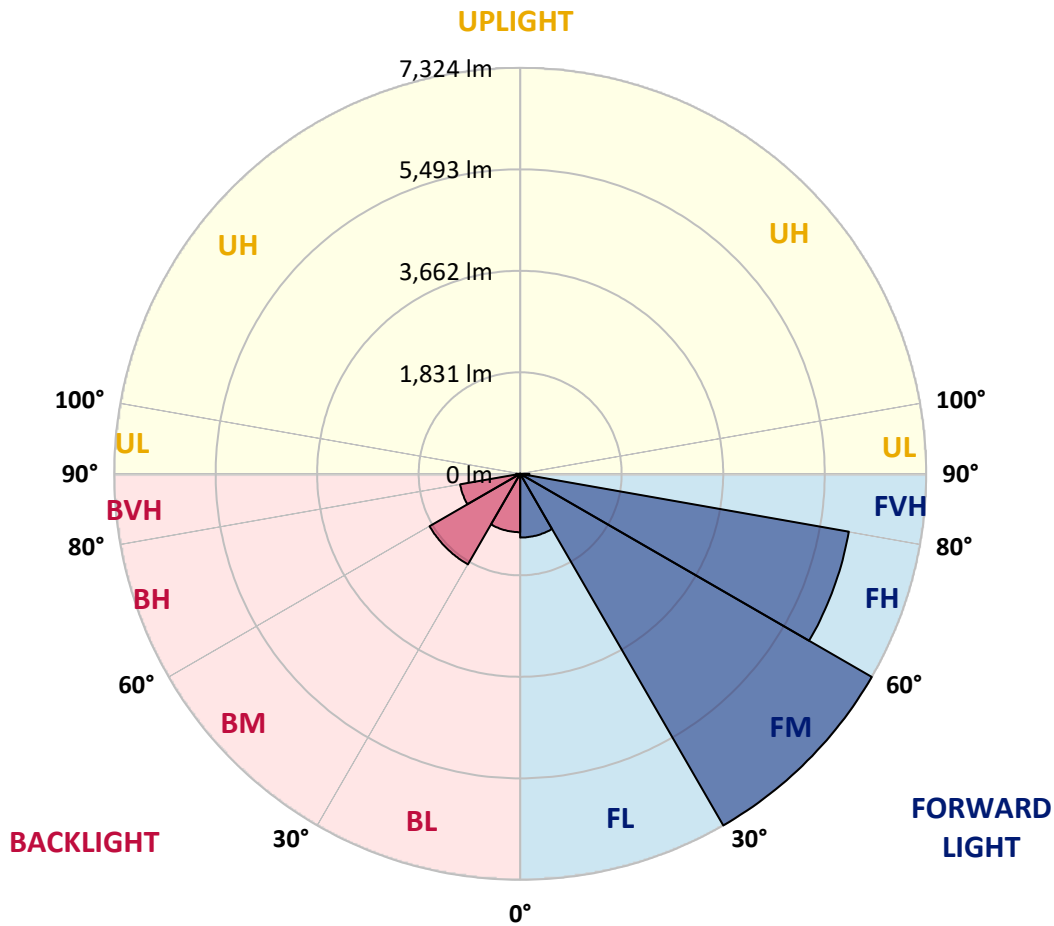
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.1	6.1			
FM (30°-60°)	7324.4	39.0			
FH (60°-80°)	6020.5	32.1			G3/7500
FVH (80°-90°)	166.2	0.9			G2/225
BL (0°-30°)	1053.3	5.6	B3/2500		
BM (30°-60°)	1887.3	10.1	B2/2500		
BH (60°-80°)	1098.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	71.5	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°	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9
2.5°	2414.1	2413.1	2425.6	2429.5	2452.5	2468.9	2499.7	2532.3	2574.6	2579.4
5°	2274.7	2274.7	2289.1	2304.5	2334.3	2367.0	2414.1	2470.8	2543.9	2555.4
7.5°	2156.4	2164.1	2176.6	2206.4	2241.0	2288.1	2360.2	2441.0	2537.1	2555.4
10°	2061.3	2069.9	2085.3	2109.3	2161.2	2226.6	2320.8	2424.7	2553.5	2582.3
12.5°	2031.4	2040.1	2048.8	2067.0	2115.1	2192.0	2304.5	2432.4	2592.9	2621.7
15°	2100.7	2111.2	2104.5	2099.7	2124.7	2194.9	2312.2	2460.2	2641.9	2683.3
17.5°	2260.3	2264.1	2248.7	2203.5	2199.7	2237.2	2348.7	2498.7	2703.5	2748.7
20°	2517.9	2511.2	2479.5	2390.1	2339.1	2331.4	2411.2	2556.4	2766.9	2815.0
22.5°	2867.9	2860.2	2796.7	2655.4	2542.0	2467.0	2501.6	2631.4	2838.1	2891.9
25°	3304.3	3293.8	3200.5	3008.2	2832.3	2646.7	2624.6	2730.4	2925.6	2975.5
27.5°	3813.9	3805.2	3704.3	3450.5	3196.7	2892.9	2777.5	2846.7	3016.9	3073.6
30°	4361.9	4386.9	4208.1	3935.0	3613.9	3214.0	2983.2	2990.0	3135.1	3186.1
32.5°	5006.0	5049.3	4833.9	4487.8	4049.4	3563.0	3242.8	3189.9	3307.2	3349.5
35°	5644.4	5693.4	5514.6	5132.0	4627.2	3974.4	3513.9	3419.7	3536.0	3582.2
37.5°	6196.3	6261.6	6169.3	5836.7	5245.4	4470.5	3867.7	3689.9	3817.7	3875.4
40°	6631.8	6731.8	6725.0	6517.4	5974.2	5072.4	4316.7	4023.5	4167.7	4230.2
42.5°	6985.6	7072.1	7147.1	7136.5	6734.6	5755.9	4844.5	4457.1	4566.7	4638.8
45°	7229.8	7322.1	7483.6	7657.6	7466.3	6487.6	5449.2	4971.4	5071.4	5180.0
47.5°	7448.0	7552.8	7762.4	8038.3	8087.3	7222.1	6111.6	5570.4	5661.7	5774.2
50°	7467.2	7557.6	7882.6	8273.8	8528.6	7927.7	6823.1	6242.4	6328.0	6448.1
52.5°	7002.9	7145.2	7712.4	8267.1	8731.5	8518.0	7529.7	6941.3	7037.5	7181.7
55°	5435.8	5644.4	7213.4	8009.5	8659.4	8899.7	8201.7	7684.5	7807.6	7958.5
57.5°	4682.0	4773.4	5726.1	7540.3	8330.6	8998.7	8769.0	8435.4	8633.4	8798.8
60°	4208.1	4284.0	4847.4	6810.6	7897.9	8842.0	9207.4	9135.3	9477.5	9674.6
62.5°	3700.4	3772.6	4285.0	5686.7	7344.2	8581.5	9484.3	9781.3	10342.8	10558.1
65°	3196.7	3258.2	3749.5	4778.2	6640.4	8321.0	9627.5	10339.9	11143.6	11366.7
67.5°	2635.2	2686.2	3150.5	4031.2	5784.8	7964.3	9698.6	10779.3	11840.7	12032.0
70°	1901.7	1941.1	2420.8	3188.0	4710.9	7350.9	9669.8	11090.8	12202.1	12355.0
72.5°	898.9	934.5	1497.9	2069.9	3327.4	6156.8	9086.2	10843.7	11834.9	11758.9
75°	479.7	510.5	860.5	1135.4	1757.4	4220.6	7435.5	9341.0	9938.0	9568.9
77.5°	325.0	349.0	532.6	681.6	802.8	2003.6	4779.1	6467.4	6222.2	5612.7
80°	257.7	282.7	436.5	461.5	388.4	723.9	1974.7	2993.8	2150.7	1720.0
82.5°	198.0	225.9	367.3	334.6	211.5	297.1	574.9	947.0	550.9	419.2
85°	121.1	150.9	288.4	213.4	119.2	135.6	195.2	263.4	168.2	140.4
87.5°	61.5	86.5	146.1	77.9	53.8	31.7	51.9	51.9	44.2	38.5
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°
2618.9	0°	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9	2618.9
2605.4	2.5°	2628.5	2647.7	2680.4	2711.2	2735.2	2758.3	2781.3	2793.8	2797.7	2813.1
2619.8	5°	2659.2	2694.8	2758.3	2817.9	2855.4	2878.4	2894.8	2904.4	2906.3	2911.1
2659.2	7.5°	2716.0	2772.7	2861.1	2920.7	2948.6	2946.7	2940.0	2915.9	2906.3	2897.7
2716.9	10°	2795.8	2870.8	2979.4	3020.7	3003.4	2957.3	2897.7	2827.5	2794.8	2763.1
2795.8	12.5°	2894.8	2990.0	3096.7	3094.8	3009.2	2890.9	2752.5	2644.8	2576.6	2527.5
2892.9	15°	3015.0	3124.6	3206.3	3140.9	2953.4	2741.0	2538.1	2397.7	2336.2	2282.4
2990.9	17.5°	3139.0	3256.3	3293.8	3126.5	2813.1	2518.9	2289.1	2178.5	2118.0	2089.1
3096.7	20°	3260.1	3376.5	3345.7	3043.8	2599.6	2267.0	2062.2	2001.6	1989.1	1995.9
3199.6	22.5°	3388.0	3491.8	3356.3	2884.2	2327.6	2009.3	1896.9	1898.8	1926.7	1946.8
3307.2	25°	3518.7	3588.9	3328.4	2653.5	2035.3	1819.9	1792.1	1822.8	1877.6	1917.0
3428.4	27.5°	3644.7	3675.4	3267.8	2367.9	1784.4	1684.4	1689.2	1752.6	1835.3	1890.1
3575.5	30°	3787.0	3752.4	3151.5	2046.8	1610.4	1568.1	1608.4	1682.5	1765.1	1814.2
3761.0	32.5°	3947.5	3818.7	2966.9	1749.8	1487.3	1474.8	1541.1	1589.2	1625.7	1640.2
4007.1	35°	4147.5	3912.0	2730.4	1541.1	1376.7	1406.5	1470.0	1446.0	1431.5	1423.8
4337.9	37.5°	4407.1	4037.9	2453.5	1405.6	1287.3	1357.5	1383.5	1308.5	1251.7	1223.9
4738.8	40°	4719.5	4222.5	2187.2	1300.8	1230.6	1315.2	1270.0	1179.6	1107.5	1068.1
5189.7	42.5°	5066.6	4415.7	1963.2	1221.9	1198.9	1280.6	1186.4	1078.7	962.4	949.9
5727.1	45°	5431.0	4614.7	1810.3	1161.4	1183.5	1250.8	1138.3	964.3	881.6	932.6
6266.4	47.5°	5795.3	4797.4	1718.0	1116.2	1175.8	1217.1	1096.0	900.8	842.2	916.2
6844.2	50°	6201.1	4960.8	1676.7	1083.5	1167.1	1203.7	1032.5	884.5	800.8	849.9
7442.2	52.5°	6603.9	5087.8	1645.9	1050.8	1154.6	1193.1	1001.8	865.3	750.9	753.7
8044.1	55°	7005.8	5170.4	1612.3	1007.6	1126.8	1170.0	998.9	844.1	713.4	699.9
8680.5	57.5°	7434.5	5217.5	1570.9	959.5	1078.7	1111.4	996.0	827.8	701.8	679.7
9331.4	60°	7871.0	5286.8	1517.1	900.8	1014.3	1041.2	989.3	822.0	695.1	657.6
9944.8	62.5°	8262.3	5310.8	1452.7	845.1	931.6	972.0	974.9	817.2	676.8	612.4
10454.3	65°	8519.0	5207.0	1340.2	781.6	842.2	900.8	947.0	800.8	644.1	579.7
10706.2	67.5°	8508.4	4910.9	1164.3	699.9	755.7	822.0	906.6	773.0	604.7	539.3
10515.8	70°	8112.3	4326.3	941.2	604.7	660.5	737.4	854.7	731.6	557.6	495.1
9350.6	72.5°	6957.7	3386.1	683.6	493.2	549.9	649.9	787.4	681.6	509.5	455.7
6910.6	75°	4970.5	2143.0	463.4	378.8	427.8	550.9	703.7	623.0	465.3	457.6
3461.1	77.5°	2539.1	1023.9	306.7	276.9	298.0	434.6	591.3	556.7	472.0	377.8
984.5	80°	825.8	377.8	193.2	188.4	198.0	289.4	457.6	456.7	357.6	256.7
238.4	82.5°	263.4	162.5	125.9	121.1	116.3	181.7	319.2	361.5	241.3	162.5
85.6	85°	104.8	97.1	74.0	68.3	49.0	85.6	167.3	240.4	179.8	117.3
22.1	87.5°	38.5	38.5	20.2	14.4	10.6	28.8	45.2	72.1	102.9	60.6
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>
2618.9
2821.7
2918.8
2899.6
2753.5
2516.0
2276.6
2097.8
1993.0
1951.7
1927.6
1903.6
1825.7
1647.8
1431.5
1230.6
1071.0
962.4
959.5
950.8
886.4
773.9
709.5
682.6
660.5
612.4
579.7
542.2
500.9
452.8
431.7
336.5
226.9
161.5
120.2
59.6
0.0

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