

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: P947408

Luminaire Tested: **GALN-SB2D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20623 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

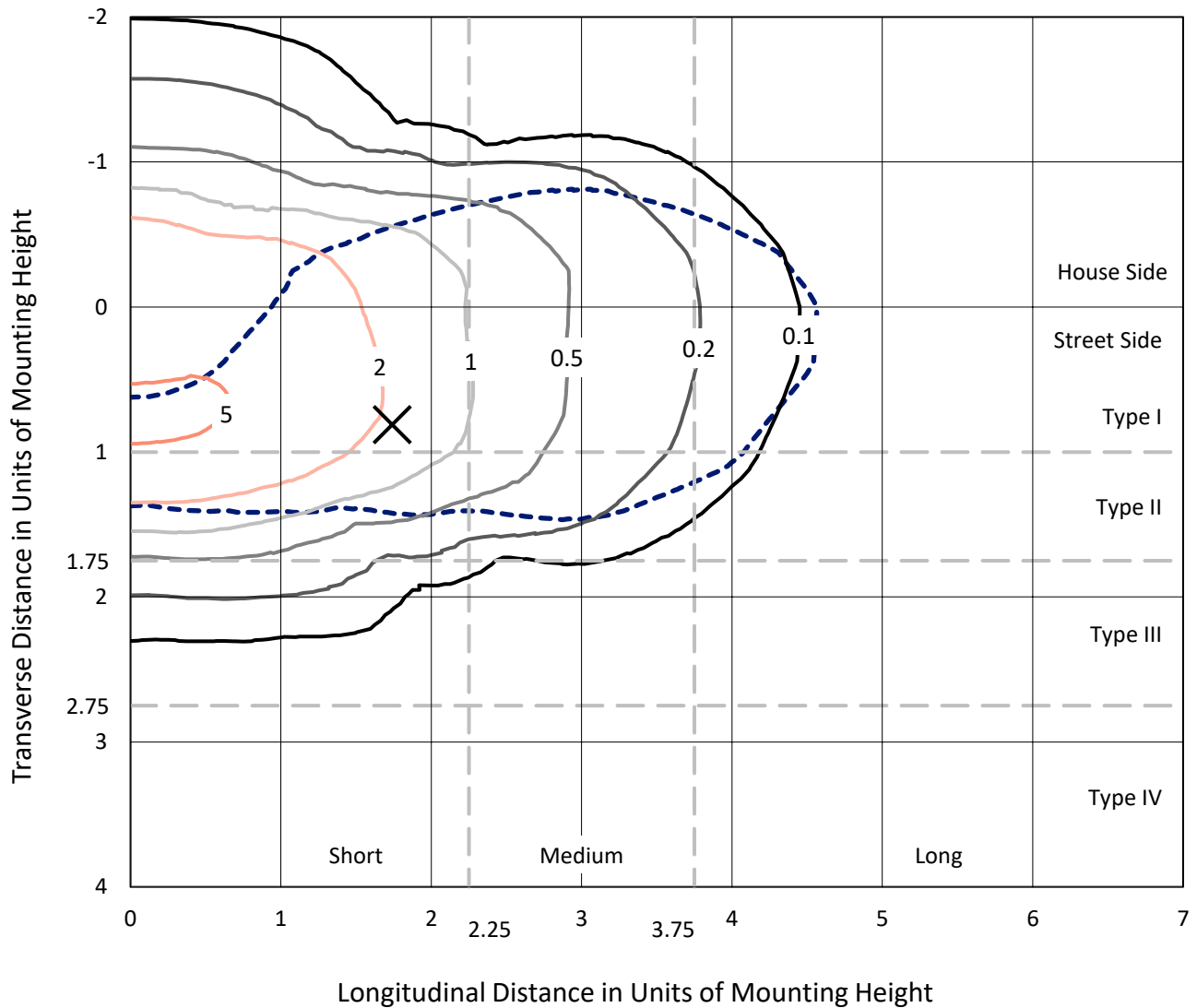
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

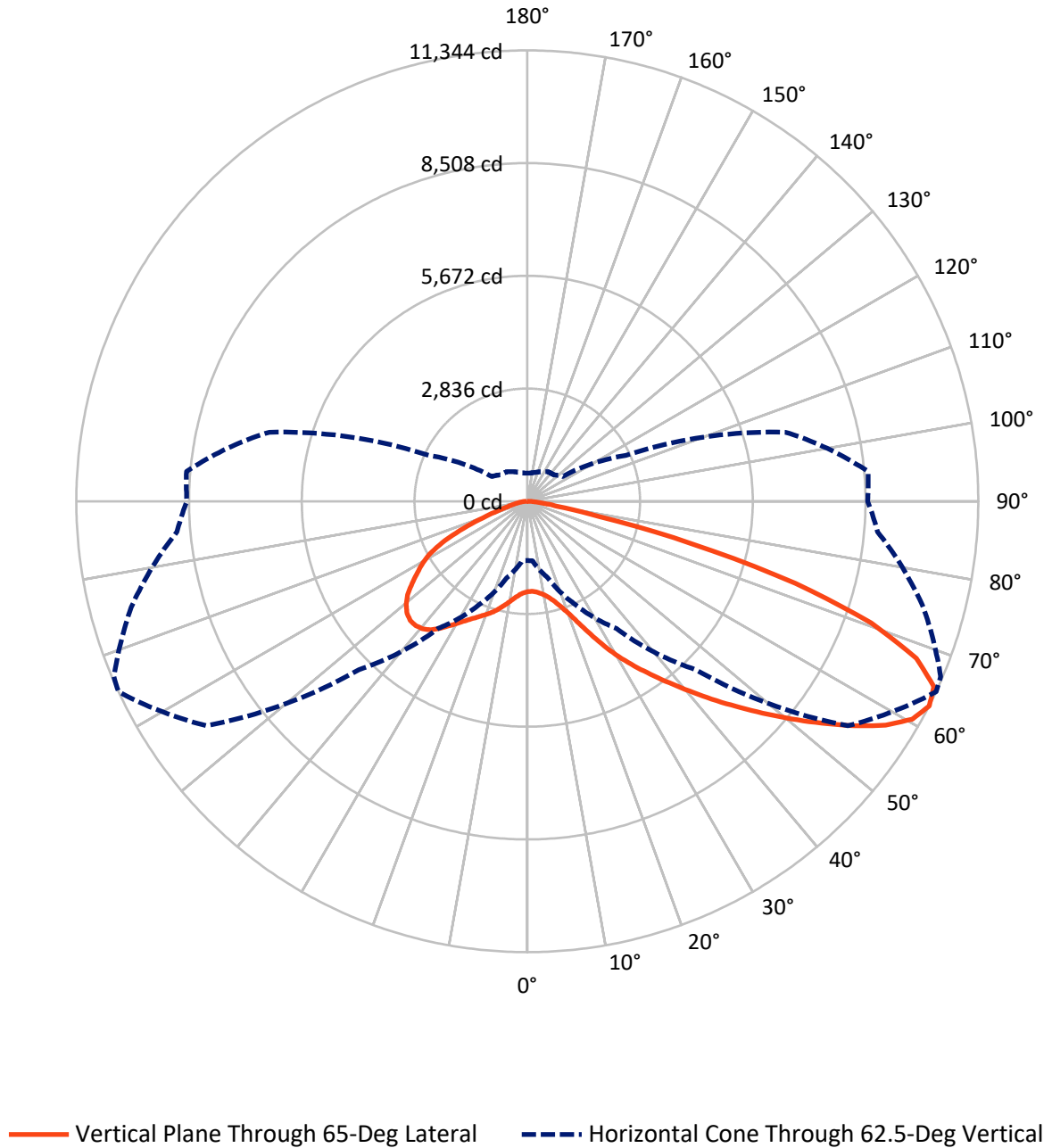
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6507.7	0.0	6507.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14115.3	0.0	14115.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	20623.0	0.0	20623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	1.1
10°-20°	768.3	3.7
20°-30°	1557.9	7.6
30°-40°	2695.9	13.1
40°-50°	4079.7	19.8
50°-60°	4783.1	23.2
60°-70°	4010.1	19.4
70°-80°	2213.9	10.7
80°-90°	287.6	1.4
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°	20623.0	100.0
0°-180°	20623.0	100.0



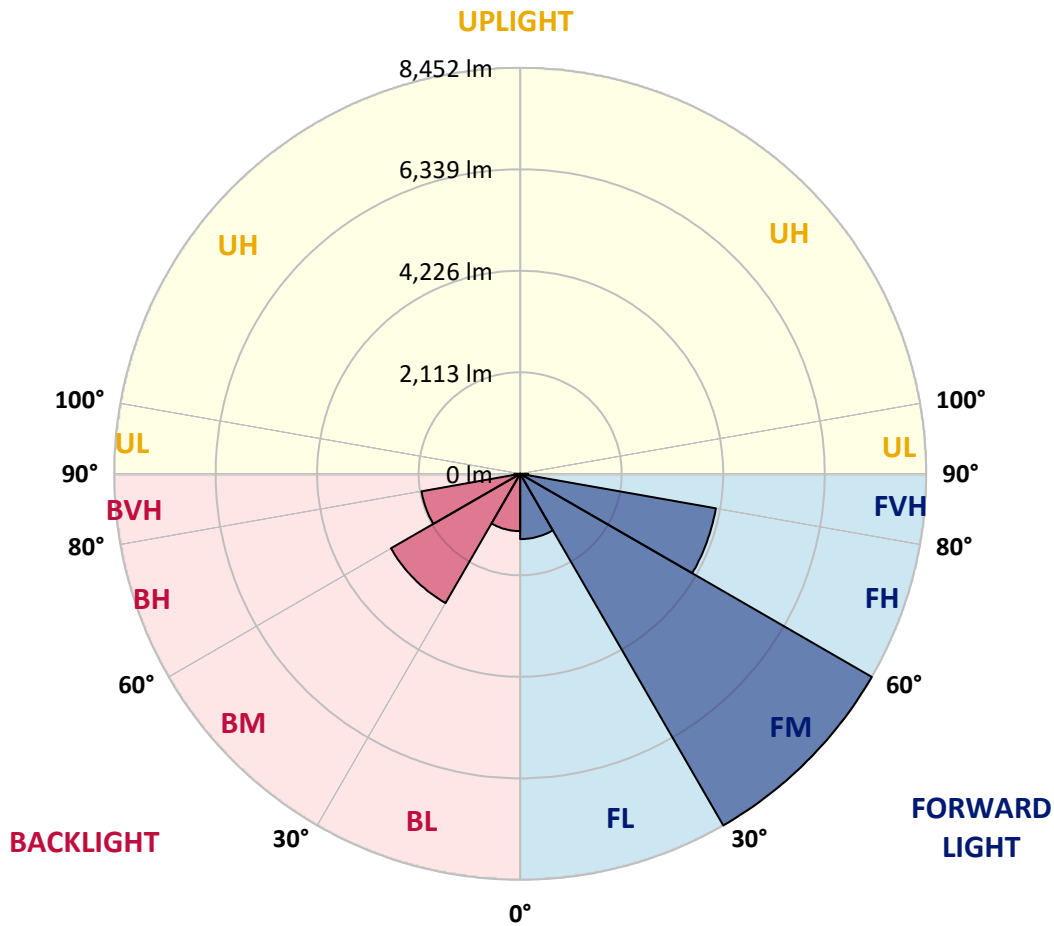
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.3	6.6			
FM (30°-60°)	8452.0	41.0			
FH (60°-80°)	4136.4	20.1			G2/5000
FVH (80°-90°)	167.6	0.8			G2/225
BL (0°-30°)	1193.4	5.8	B3/2500		
BM (30°-60°)	3106.7	15.1	B3/5000		
BH (60°-80°)	2087.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	120.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6
2.5°	2257.6	2251.2	2256.5	2256.5	2258.7	2257.6	2265.1	2267.2	2270.4	2276.8
5°	2235.1	2234.0	2243.7	2252.2	2260.8	2268.3	2277.9	2291.8	2294.0	2301.5
7.5°	2227.6	2221.2	2236.2	2246.9	2267.2	2285.4	2311.1	2334.6	2344.3	2347.5
10°	2285.4	2274.7	2288.6	2295.0	2312.2	2330.3	2360.3	2397.7	2408.4	2421.3
12.5°	2383.8	2372.1	2392.4	2402.0	2418.1	2434.1	2454.5	2490.8	2496.2	2519.7
15°	2518.7	2504.7	2517.6	2529.4	2556.1	2571.1	2591.4	2626.7	2626.7	2644.9
17.5°	2701.6	2683.4	2693.1	2697.3	2714.5	2736.9	2771.2	2802.2	2818.2	2811.8
20°	2974.4	2952.0	2952.0	2930.6	2924.2	2942.4	2987.3	3030.1	3047.2	3014.0
22.5°	3384.2	3352.1	3334.0	3261.2	3232.3	3234.4	3279.4	3331.8	3345.7	3286.9
25°	3905.3	3855.0	3830.4	3723.4	3658.1	3601.4	3636.7	3704.2	3723.4	3650.7
27.5°	4426.4	4429.6	4406.0	4277.6	4169.6	4065.8	4047.6	4118.2	4138.6	4056.2
30°	5157.1	5081.2	5036.2	4882.2	4728.1	4582.6	4507.7	4536.6	4541.9	4443.5
32.5°	5787.3	5768.1	5671.8	5537.0	5339.0	5111.1	4985.9	4939.9	4931.4	4791.2
35°	6505.3	6494.6	6392.9	6232.4	6018.4	5701.7	5476.0	5344.4	5333.7	5136.8
37.5°	7235.0	7235.0	7135.5	6960.0	6738.5	6342.6	5999.2	5790.5	5756.3	5499.5
40°	7817.0	7781.7	7799.9	7726.1	7472.5	7052.0	6580.2	6277.4	6231.4	5923.2
42.5°	8147.6	8135.9	8245.0	8327.4	8223.6	7887.6	7220.0	6804.9	6740.7	6389.7
45°	8221.5	8208.6	8403.4	8705.1	8850.6	8712.6	7915.5	7360.2	7282.1	6877.6
47.5°	8051.3	8025.7	8311.3	8787.5	9254.0	9496.8	8668.7	7962.5	7849.1	7352.7
50°	7539.9	7515.3	7947.6	8579.9	9389.8	10029.7	9486.1	8601.3	8428.0	7862.0
52.5°	6428.2	6440.0	7117.3	7986.1	9211.2	10361.4	10190.2	9274.3	9065.7	8383.0
55°	5007.3	5033.0	5865.4	6822.0	8496.4	10311.1	10670.6	9967.6	9760.0	8873.1
57.5°	3585.4	3698.8	4478.8	5425.7	7123.7	9514.0	10775.4	10626.7	10425.6	9408.0
60°	2323.9	2344.3	3146.7	4101.1	5424.6	8097.4	10562.5	11126.4	10969.1	9953.7
62.5°	1489.4	1503.3	1992.2	2868.5	3904.2	5990.6	9845.6	11343.6	11295.4	10314.3
65°	1094.6	1083.9	1338.5	1895.9	2629.9	3694.5	8453.6	11238.7	11333.9	10540.0
67.5°	913.7	898.8	1023.9	1312.8	1937.7	2098.2	6254.9	10557.2	10906.0	10514.4
70°	832.4	819.6	895.5	974.7	1511.8	1404.8	3153.1	9178.0	9715.1	10222.3
72.5°	705.1	682.6	786.4	865.6	1175.9	1077.4	1303.2	7049.9	7704.7	9286.1
75°	546.7	531.8	620.6	761.8	883.8	841.0	823.9	4280.9	4995.6	7181.5
77.5°	433.3	413.0	494.3	593.8	795.0	634.5	600.2	1843.5	2551.8	4584.7
80°	326.3	308.1	375.6	469.7	610.9	478.3	388.4	752.2	961.9	2322.9
82.5°	232.2	216.1	262.1	344.5	410.9	429.0	238.6	421.6	474.0	895.5
85°	148.7	139.1	175.5	216.1	261.1	276.0	145.5	220.4	241.8	369.1
87.5°	81.3	66.3	94.2	100.6	120.9	110.2	69.5	80.2	86.7	133.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947408
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2272.6	0°	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6	2272.6
2276.8	2.5°	2281.1	2284.3	2295.0	2298.2	2305.7	2315.4	2321.8	2328.2	2328.2	2334.6
2311.1	5°	2312.2	2319.6	2342.1	2353.9	2373.1	2392.4	2404.2	2418.1	2426.6	2430.9
2365.7	7.5°	2372.1	2383.8	2415.9	2436.3	2469.4	2496.2	2514.4	2533.6	2537.9	2549.7
2441.6	10°	2453.4	2467.3	2503.7	2542.2	2581.8	2614.9	2632.1	2646.0	2651.3	2653.5
2539.0	12.5°	2546.5	2566.8	2613.9	2661.0	2702.7	2731.6	2735.9	2732.6	2717.7	2704.8
2658.8	15°	2661.0	2679.1	2731.6	2782.9	2823.6	2828.9	2802.2	2785.1	2766.9	2763.7
2792.6	17.5°	2797.9	2807.5	2855.7	2906.0	2909.2	2891.0	2851.4	2835.4	2818.2	2806.5
2967.0	20°	2957.3	2954.1	2988.4	3009.8	2987.3	2931.7	2871.7	2845.0	2827.9	2814.0
3180.9	22.5°	3147.8	3123.2	3118.9	3113.5	3053.6	2937.0	2855.7	2821.4	2794.7	2775.4
3479.5	25°	3424.9	3330.7	3265.5	3229.1	3094.3	2908.1	2804.3	2728.4	2678.1	2644.9
3844.3	27.5°	3771.6	3613.2	3448.4	3359.6	3094.3	2849.3	2680.2	2557.2	2474.8	2440.5
4197.4	30°	4102.2	3936.3	3693.5	3516.9	3086.8	2753.0	2480.1	2308.9	2212.6	2178.4
4499.1	32.5°	4384.6	4203.8	3953.5	3689.2	3068.6	2596.8	2231.9	2042.5	1949.4	1908.8
4797.6	35°	4646.8	4454.2	4214.5	3878.6	3020.5	2367.8	1959.1	1814.6	1710.8	1645.6
5101.5	37.5°	4915.3	4686.4	4461.7	4049.7	2933.8	2100.3	1749.4	1626.3	1504.3	1416.6
5424.6	40°	5207.4	4933.5	4726.0	4151.4	2791.5	1845.7	1586.7	1474.4	1344.9	1251.8
5797.0	42.5°	5548.7	5229.9	5020.2	4203.8	2596.8	1664.8	1480.8	1370.6	1248.6	1172.7
6196.1	45°	5905.0	5556.2	5288.7	4202.7	2379.6	1580.3	1446.6	1337.4	1202.6	1123.4
6605.8	47.5°	6278.4	5897.5	5520.9	4134.3	2191.2	1592.1	1427.3	1265.7	1117.0	1040.0
7019.9	50°	6652.9	6271.0	5745.6	4005.9	2111.0	1566.4	1355.6	1165.2	989.7	920.2
7408.3	52.5°	7024.2	6667.9	5939.3	3822.9	2029.7	1471.2	1263.6	1034.6	937.3	889.1
7809.5	55°	7397.6	7060.6	6150.0	3556.5	1826.4	1359.9	1109.5	985.4	895.5	851.7
8202.2	57.5°	7772.1	7514.2	6350.1	3290.1	1570.7	1222.9	1025.0	925.5	853.8	816.4
8530.7	60°	8161.5	8033.2	6556.6	3045.1	1318.2	1047.5	963.0	877.4	804.6	762.9
8846.3	62.5°	8562.8	8604.5	6718.2	2729.4	1086.0	940.5	907.3	819.6	749.0	709.4
9107.4	65°	8967.2	9155.5	6824.1	2291.8	880.6	838.8	847.4	756.5	684.8	650.5
9298.9	67.5°	9272.2	9552.5	6794.2	1734.4	722.2	742.5	772.5	690.1	622.7	596.0
9267.9	70°	9306.4	9505.4	6498.9	1187.6	604.5	648.4	689.0	624.8	555.3	536.0
8831.3	72.5°	8850.6	8863.4	5676.1	775.7	511.4	569.2	601.3	558.5	491.1	471.8
7726.1	75°	7655.5	7330.2	4167.4	511.4	428.0	489.0	518.9	489.0	423.7	428.0
5780.9	77.5°	5800.2	5191.4	2530.4	363.8	357.4	410.9	451.5	430.1	374.5	420.5
2907.0	80°	2988.4	2808.6	1128.8	271.8	282.5	328.5	371.3	343.5	296.4	282.5
649.5	82.5°	684.8	796.0	445.1	194.7	204.4	236.5	283.5	257.9	212.9	179.8
270.7	85°	239.7	262.1	196.9	122.0	119.8	147.7	192.6	172.3	144.4	115.6
114.5	87.5°	76.0	99.5	73.8	49.2	51.4	66.3	88.8	81.3	67.4	43.9
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>
2272.6
2334.6
2433.1
2545.4
2648.1
2704.8
2763.7
2807.5
2815.0
2781.9
2657.7
2457.7
2198.7
1929.1
1667.0
1440.1
1270.0
1187.6
1136.3
1050.7
924.4
889.1
847.4
809.9
759.7
708.3
649.5
597.0
537.1
470.8
413.0
370.2
257.9
177.6
122.0
46.0
0.0

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