

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: P941716

Luminaire Tested: **GALN-SB5B-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21339 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

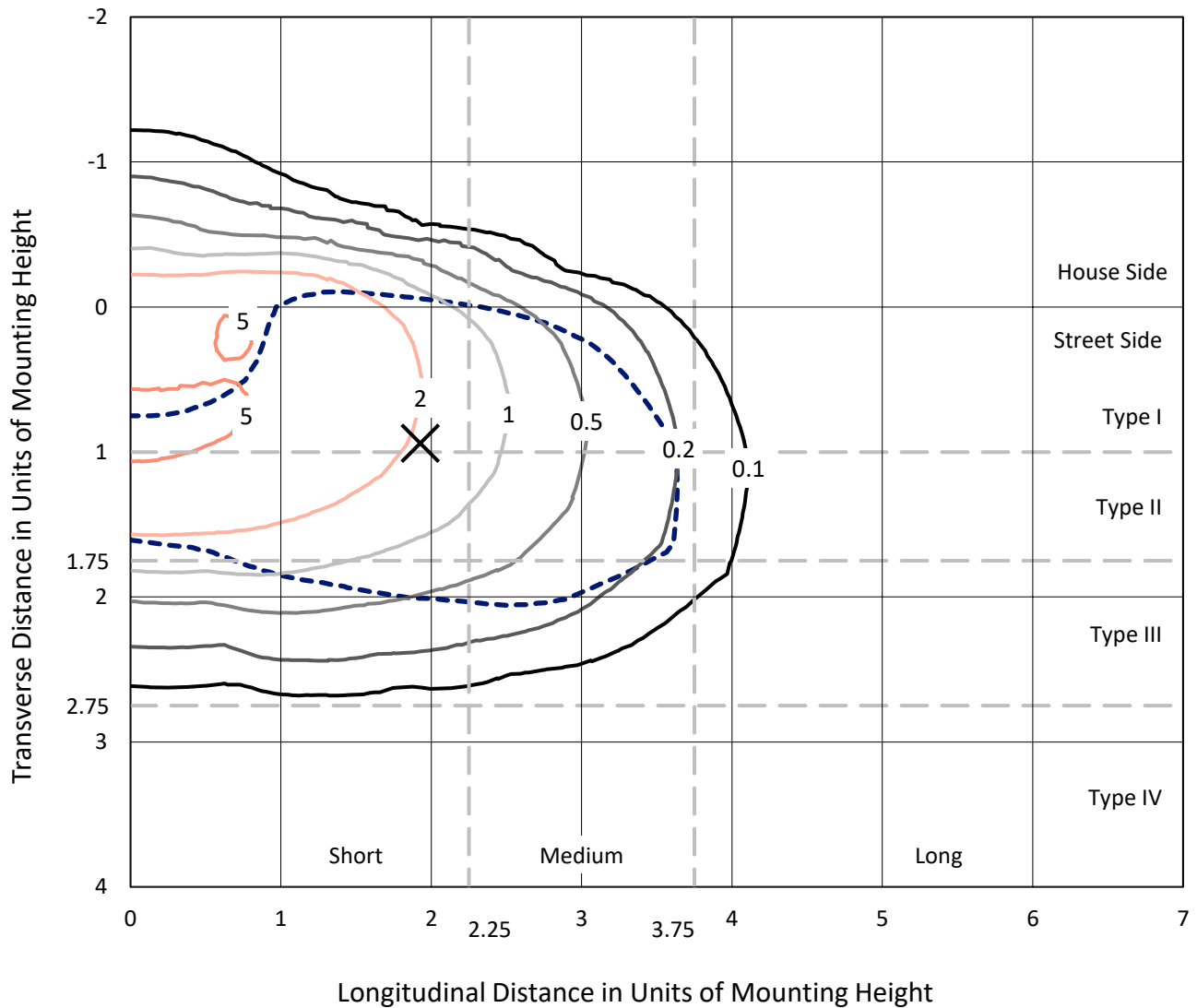
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

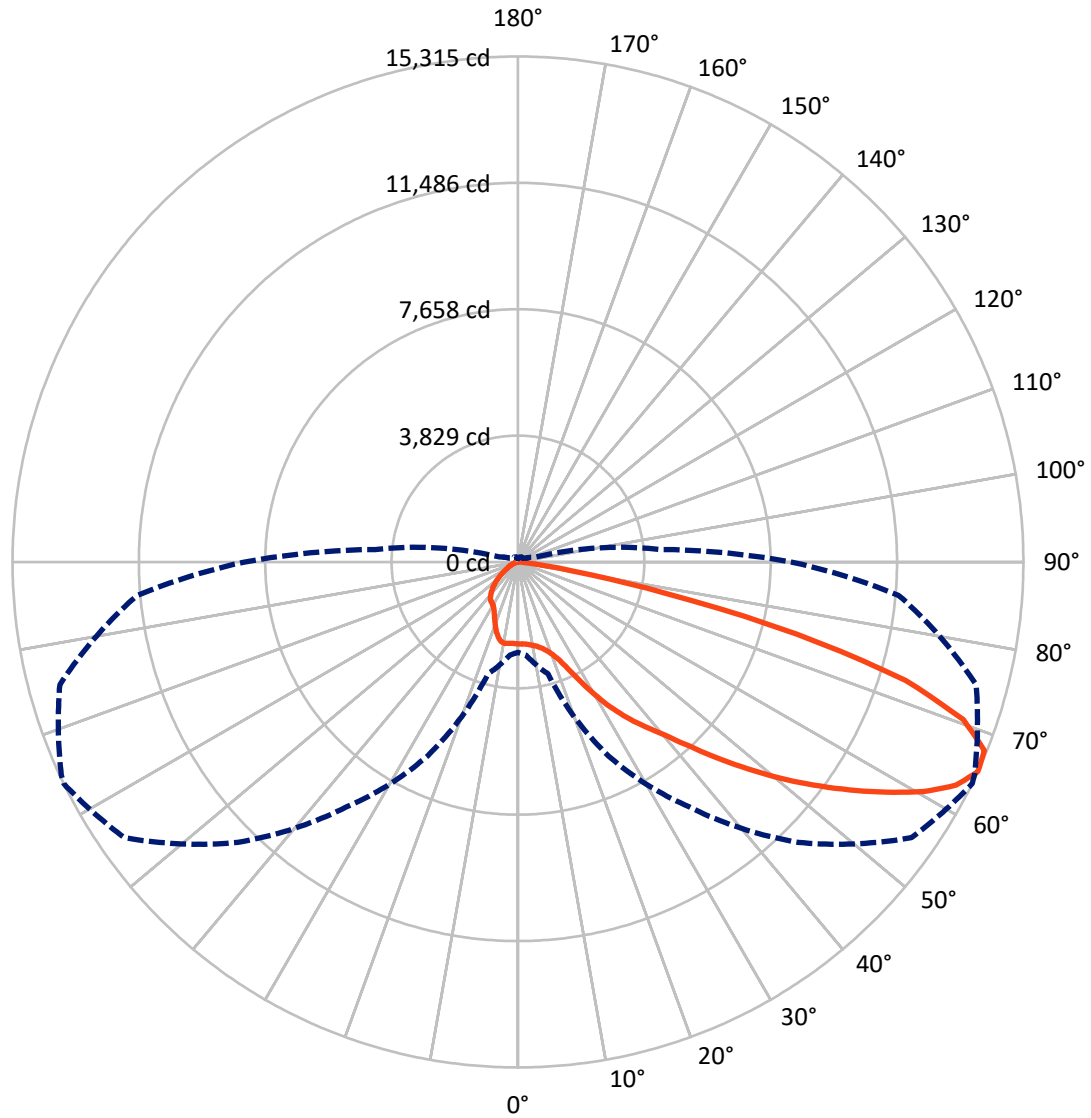
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2853.7	0.0	2853.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18485.3	0.0	18485.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	21339.0	0.0	21339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.1
10°-20°	621.1	2.9
20°-30°	1176.9	5.5
30°-40°	2381.4	11.2
40°-50°	4056.8	19.0
50°-60°	5517.0	25.9
60°-70°	5180.7	24.3
70°-80°	2075.6	9.7
80°-90°	100.6	0.5
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°	21339.0	100.0
0°-180°	21339.0	100.0

Coefficient of Utilization



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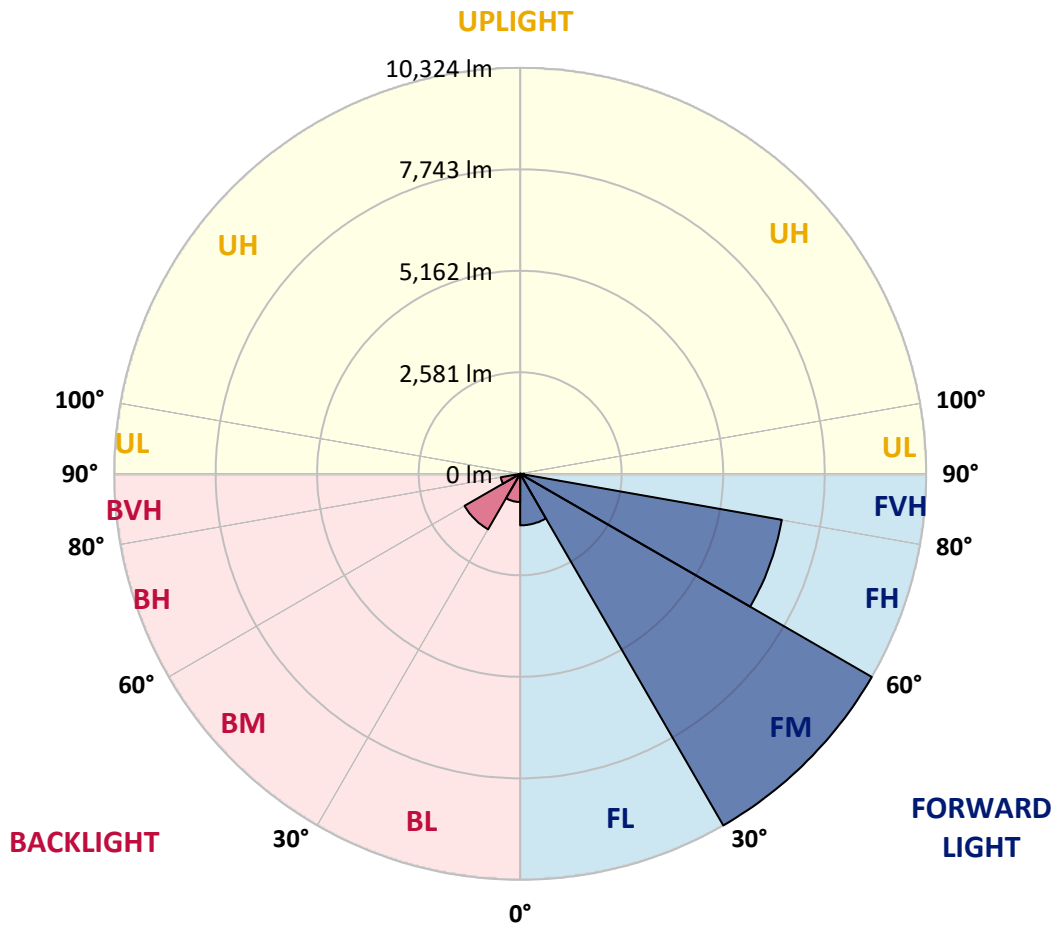
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.5	6.1			
FM (30°-60°)	10323.8	48.4			
FH (60°-80°)	6755.4	31.7			G3/7500
FVH (80°-90°)	95.6	0.4			G1/100
BL (0°-30°)	716.5	3.4	B2/1000		
BM (30°-60°)	1631.4	7.6	B2/2500		
BH (60°-80°)	500.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9
2.5°	2473.4	2490.5	2486.2	2481.9	2480.5	2483.4	2484.8	2483.4	2483.4	2483.4
5°	2426.2	2440.5	2440.5	2450.5	2464.8	2481.9	2494.8	2497.7	2500.5	2504.8
7.5°	2336.0	2347.5	2356.1	2389.0	2424.7	2470.5	2509.1	2529.2	2532.0	2547.8
10°	2274.5	2288.8	2303.1	2337.5	2389.0	2457.6	2523.4	2572.1	2579.2	2616.4
12.5°	2271.7	2286.0	2304.6	2341.8	2401.8	2474.8	2554.9	2625.0	2637.9	2692.2
15°	2301.7	2318.9	2336.0	2381.8	2446.2	2534.9	2620.7	2708.0	2720.8	2798.1
17.5°	2363.2	2386.1	2399.0	2444.8	2513.4	2612.1	2725.1	2825.3	2836.7	2926.8
20°	2484.8	2512.0	2516.3	2553.5	2620.7	2726.6	2861.0	2985.5	2999.8	3102.8
22.5°	2736.6	2775.2	2740.9	2759.5	2819.5	2925.4	3071.3	3228.7	3248.7	3366.0
25°	3180.0	3234.4	3145.7	3114.2	3140.0	3250.1	3433.2	3632.1	3655.0	3749.4
27.5°	4051.2	3981.1	3846.7	3715.1	3637.8	3700.7	3906.7	4152.8	4181.4	4273.0
30°	5008.2	4946.7	4765.1	4473.2	4290.1	4280.1	4470.4	4745.0	4777.9	4865.2
32.5°	5966.7	5908.0	5710.6	5351.6	5034.0	4876.6	5008.2	5312.9	5330.1	5385.9
35°	6909.4	6849.3	6651.9	6284.3	5893.7	5536.1	5510.4	5853.7	5859.4	5918.0
37.5°	7857.8	7807.8	7597.5	7237.0	6852.2	6358.6	6119.8	6365.8	6373.0	6430.2
40°	8534.5	8555.9	8411.4	8132.5	7802.0	7262.7	6803.5	6910.8	6867.9	6963.8
42.5°	9115.3	9158.2	9032.3	8892.1	8700.4	8225.5	7650.4	7631.8	7563.1	7614.6
45°	9617.4	9653.1	9540.1	9507.2	9502.9	9169.6	8576.0	8464.4	8368.5	8358.5
47.5°	9801.9	9870.6	9919.2	10029.4	10243.9	10103.7	9533.0	9359.9	9252.6	9173.9
50°	9872.0	9945.0	10110.9	10431.3	10939.2	10999.2	10485.7	10291.1	10159.5	10016.5
52.5°	9777.6	9907.8	10130.9	10670.2	11406.9	11717.4	11399.8	11229.6	11079.4	10846.2
55°	9221.1	9351.3	9807.6	10667.4	11640.1	12220.9	12263.8	12188.0	12019.2	11651.6
57.5°	8048.1	8241.2	8963.6	10304.0	11635.8	12654.4	13110.7	13165.0	12976.2	12449.8
60°	6423.0	6684.8	7566.0	9498.6	11276.8	12889.0	13853.1	14124.9	13924.7	13236.6
62.5°	4481.8	4785.1	5619.1	8236.9	10455.6	12720.2	14395.3	14897.4	14745.8	13940.4
65°	2733.7	2831.0	3503.3	6481.7	9059.5	12013.5	14562.7	15315.1	15265.0	14371.0
67.5°	1821.0	1902.6	2095.7	4444.6	7032.4	10601.6	14162.1	15242.2	15256.5	14300.9
70°	1097.2	1167.3	1293.2	2584.9	4557.6	8391.4	12921.9	14312.3	14395.3	13363.9
72.5°	452.0	499.3	613.7	1171.6	2360.4	5325.8	10289.7	12288.1	12481.3	11236.7
75°	256.1	280.4	360.5	587.9	1024.3	2481.9	6232.8	8723.3	9008.0	7744.8
77.5°	170.2	181.7	233.2	380.5	576.5	846.9	2663.6	4544.8	5088.3	4230.0
80°	114.4	124.5	160.2	254.6	374.8	363.4	848.3	1683.7	2071.4	1453.4
82.5°	77.2	78.7	114.4	167.4	237.5	176.0	250.3	523.6	658.0	420.6
85°	44.3	42.9	84.4	97.3	105.9	73.0	75.8	157.4	206.0	177.4
87.5°	5.7	8.6	32.9	25.7	14.3	15.7	15.7	27.2	40.1	42.9
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°
2481.9	0°	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9
2484.8	2.5°	2484.8	2483.4	2479.1	2474.8	2464.8	2459.1	2461.9	2459.1	2457.6	2459.1
2503.4	5°	2503.4	2499.1	2487.7	2473.4	2453.3	2429.0	2413.3	2390.4	2368.9	2356.1
2553.5	7.5°	2553.5	2549.2	2533.4	2493.4	2429.0	2327.5	2234.5	2152.9	2091.4	2055.7
2633.6	10°	2633.6	2626.4	2602.1	2513.4	2344.6	2122.9	1938.4	1785.3	1685.1	1637.9
2728.0	12.5°	2728.0	2719.4	2676.5	2494.8	2184.4	1838.2	1583.6	1413.4	1320.4	1278.9
2836.7	15°	2839.6	2828.1	2743.7	2406.1	1951.2	1523.5	1290.3	1163.0	1102.9	1065.7
2975.5	17.5°	2978.3	2958.3	2793.8	2273.1	1698.0	1283.2	1110.1	1014.2	961.3	925.5
3157.2	20°	3158.6	3125.7	2833.9	2114.3	1464.8	1131.5	988.5	908.4	868.3	836.9
3414.6	22.5°	3410.4	3363.1	2882.5	1942.6	1300.3	1027.1	898.4	839.7	806.8	771.0
3773.7	25°	3722.2	3666.4	2942.6	1783.9	1187.3	937.0	832.6	783.9	745.3	703.8
4244.3	27.5°	4158.5	4058.4	3014.1	1653.7	1090.1	859.7	772.5	718.1	673.8	639.4
4777.9	30°	4644.9	4480.4	3077.0	1575.0	1001.4	788.2	693.8	639.4	598.0	573.6
5257.2	32.5°	5105.5	4882.4	3118.5	1540.7	921.3	706.7	608.0	549.3	517.8	510.7
5726.4	35°	5540.4	5245.7	3114.2	1507.8	849.7	625.1	523.6	463.5	439.2	443.5
6231.3	37.5°	6041.1	5633.4	3084.2	1456.3	791.1	550.7	450.6	397.7	376.2	377.7
6845.0	40°	6623.3	6081.1	3065.6	1359.0	726.7	482.1	390.5	347.6	331.9	326.2
7491.6	42.5°	7244.1	6514.6	3068.5	1248.8	646.6	420.6	349.0	313.3	299.0	294.7
8211.2	45°	7867.8	6928.0	3072.8	1134.4	562.2	373.4	319.0	289.0	280.4	274.7
8940.7	47.5°	8454.4	7279.9	2992.6	1011.4	479.2	337.6	294.7	274.7	267.5	260.4
9673.2	50°	9000.8	7514.5	2799.5	868.3	413.4	309.0	276.1	261.8	254.6	247.5
10336.9	52.5°	9425.7	7551.7	2480.5	721.0	367.6	287.5	264.6	251.8	243.2	236.0
10873.4	55°	9614.5	7318.5	2027.0	583.7	331.9	268.9	253.2	240.3	230.3	223.2
11295.4	57.5°	9565.9	6827.9	1580.7	469.2	297.5	250.3	238.9	230.3	218.9	207.4
11637.3	60°	9327.0	6171.3	1191.6	390.5	266.1	230.3	223.2	216.0	200.3	183.1
11768.9	62.5°	8913.6	5345.8	849.7	323.3	231.7	207.4	204.6	198.8	176.0	144.5
11574.3	65°	8281.3	4343.1	572.2	268.9	198.8	181.7	183.1	173.1	143.1	107.3
10861.9	67.5°	7357.1	3175.7	366.2	220.3	165.9	151.6	153.1	147.3	121.6	91.6
9511.5	70°	6179.8	2102.9	238.9	167.4	133.0	117.3	125.9	127.3	103.0	74.4
7299.9	72.5°	4530.4	1241.7	167.4	124.5	97.3	81.5	103.0	105.9	83.0	55.8
4391.7	75°	2582.1	589.4	125.9	90.1	60.1	57.2	80.1	80.1	57.2	37.2
1901.2	77.5°	1084.3	246.0	88.7	58.7	34.3	32.9	54.4	50.1	28.6	17.2
463.5	80°	313.3	110.1	47.2	28.6	14.3	12.9	21.5	15.7	7.2	2.9
176.0	82.5°	123.0	48.6	18.6	11.4	5.7	5.7	2.9	0.0	0.0	0.0
100.1	85°	73.0	20.0	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.5	87.5°	18.6	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

180°
2481.9
2464.8
2358.9
2057.1
1633.7
1274.6
1067.2
922.7
831.1
765.3
699.5
632.3
569.3
515.0
443.5
383.4
324.7
293.3
274.7
260.4
247.5
234.6
221.7
206.0
180.2
141.6
104.4
87.3
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