

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: P953728

Luminaire Tested: **GALN-SB7A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17667 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

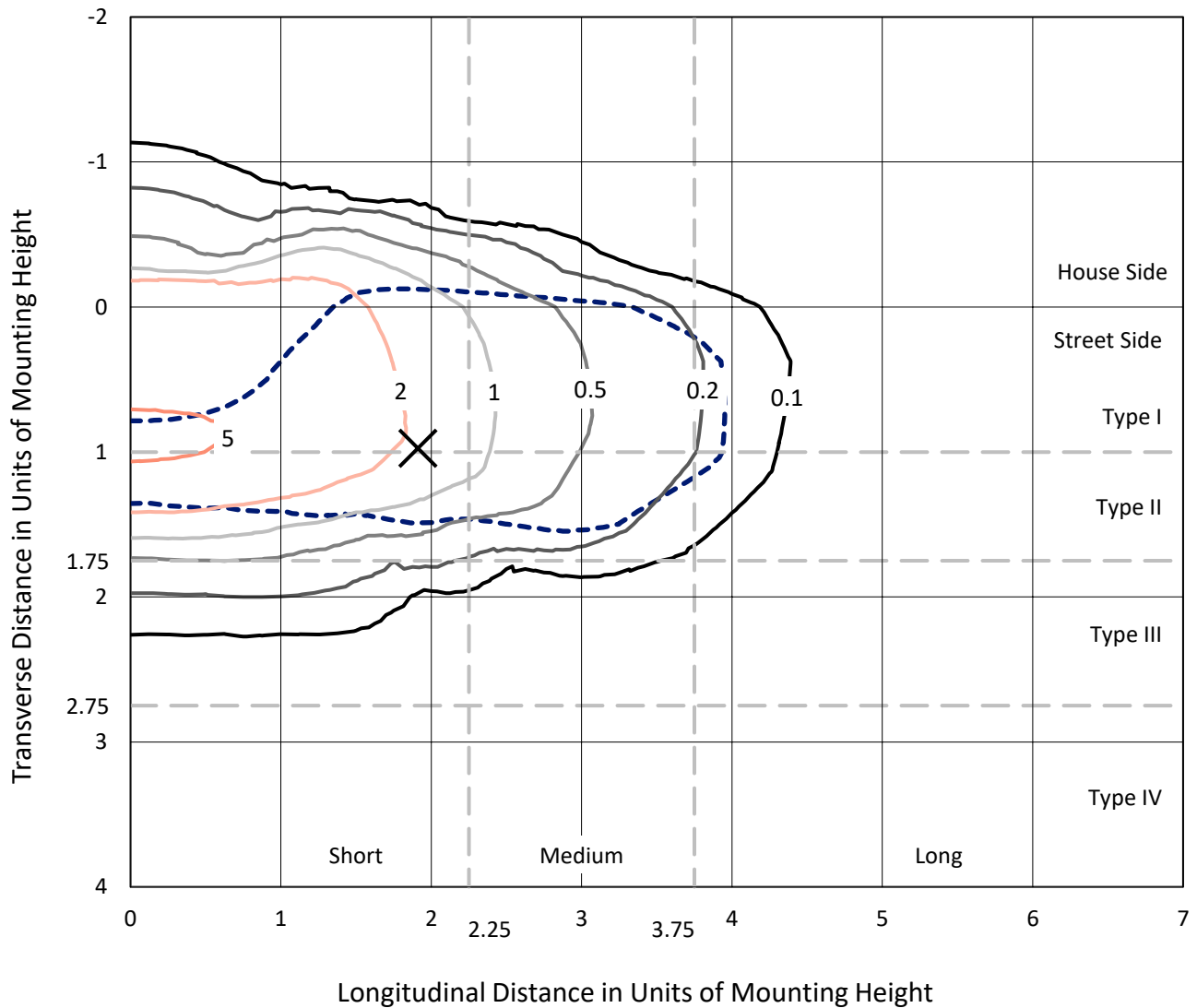
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

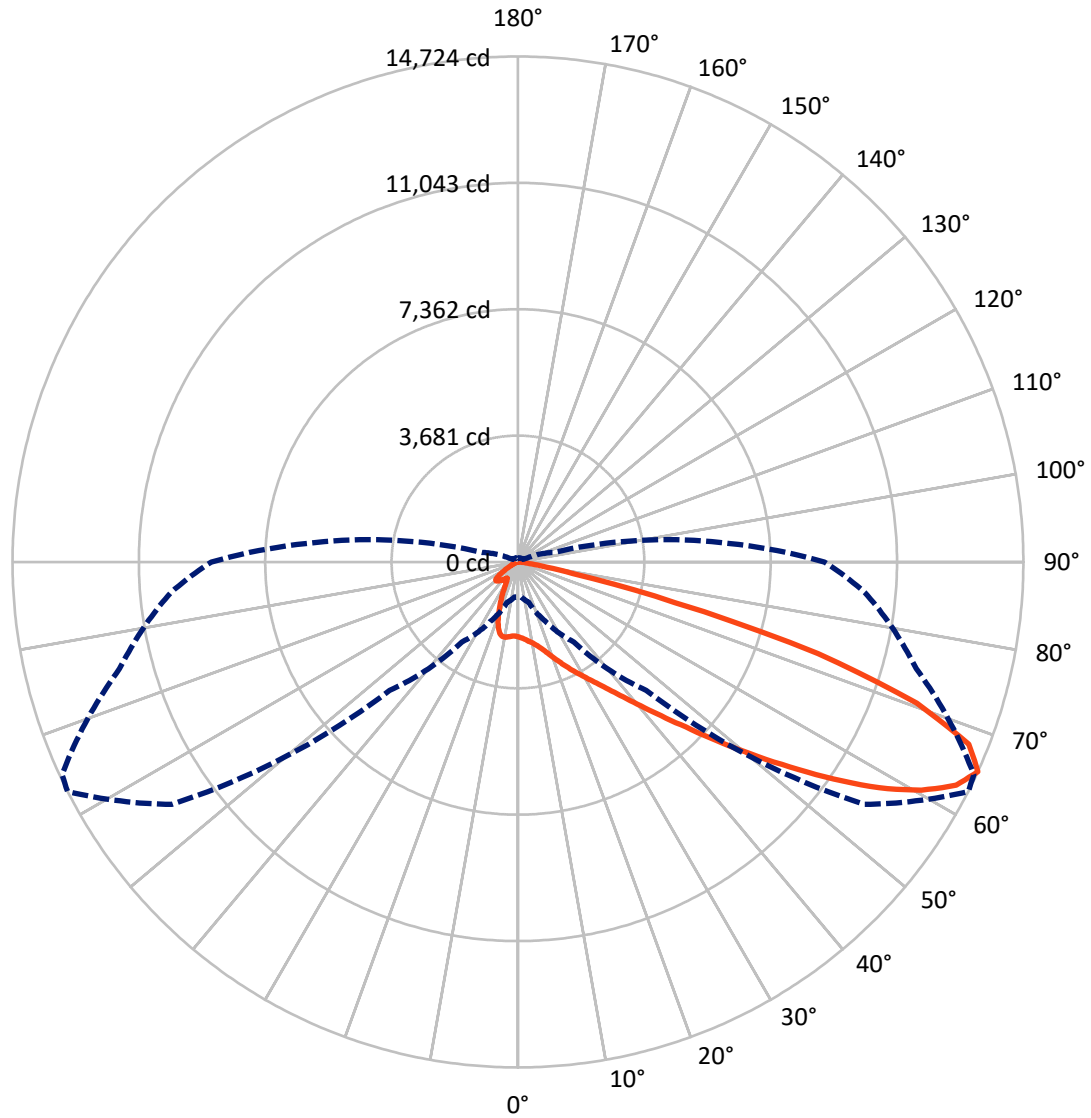
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.9	0.0	2596.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15070.1	0.0	15070.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	17667.0	0.0	17667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.2
10°-20°	570.0	3.2
20°-30°	992.5	5.6
30°-40°	1789.0	10.1
40°-50°	3548.1	20.1
50°-60°	4833.1	27.4
60°-70°	3857.7	21.8
70°-80°	1745.7	9.9
80°-90°	125.5	0.7
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°	17667.0	100.0
0°-180°	17667.0	100.0

Coefficient of Utilization



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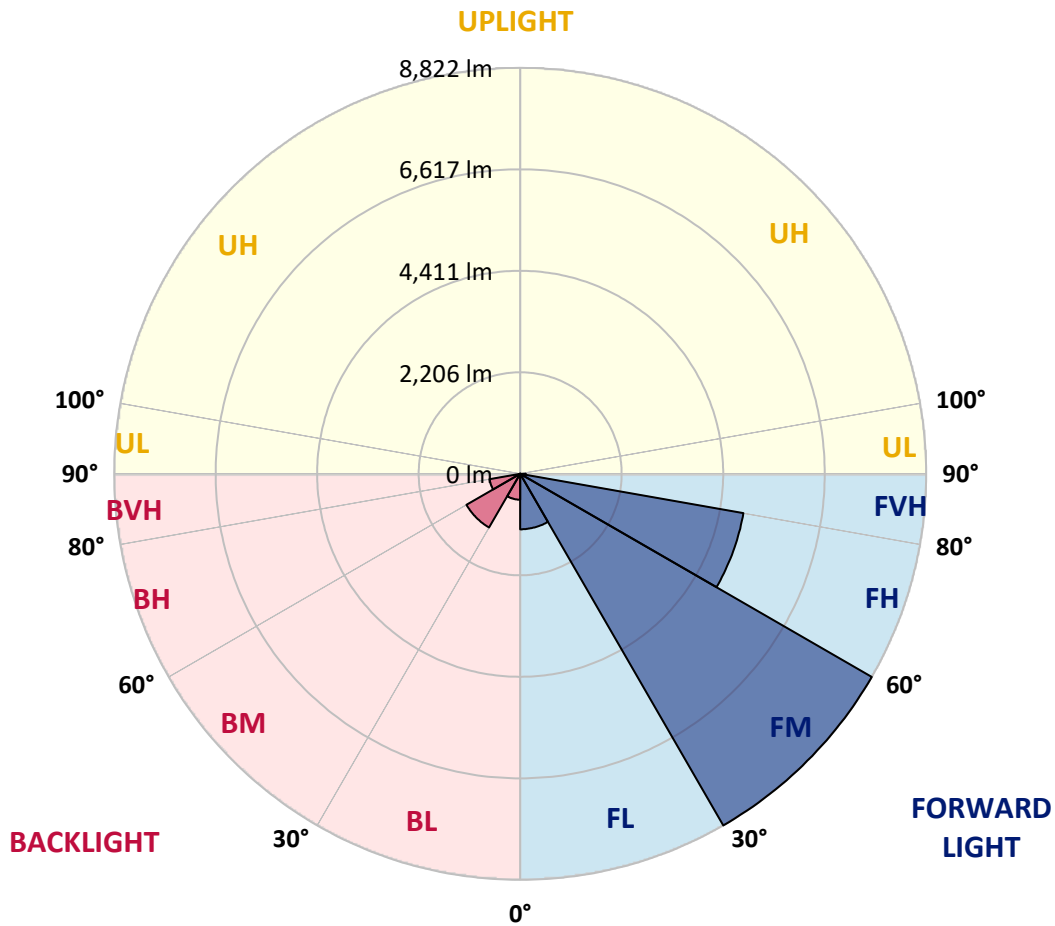
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.0	6.8			
FM (30°-60°)	8822.5	49.9			
FH (60°-80°)	4925.5	27.9			G2/5000
FVH (80°-90°)	116.2	0.7			G2/225
BL (0°-30°)	562.0	3.2	B2/1000		
BM (30°-60°)	1347.6	7.6	B2/2500		
BH (60°-80°)	677.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2231.5	2225.4	2233.9	2230.3	2227.8	2223.0	2220.6	2218.1	2213.3	2209.6
5°	2237.6	2233.9	2242.4	2249.7	2257.0	2264.3	2268.0	2272.8	2268.0	2258.2
7.5°	2186.5	2184.1	2202.3	2224.2	2257.0	2285.0	2315.4	2332.4	2333.6	2329.9
10°	2182.9	2176.8	2195.0	2221.8	2264.3	2314.1	2367.6	2404.1	2408.9	2424.7
12.5°	2240.0	2233.9	2259.4	2288.6	2332.4	2384.6	2450.3	2501.3	2508.6	2530.5
15°	2336.0	2327.5	2356.7	2394.4	2450.3	2509.8	2579.1	2625.3	2631.4	2658.1
17.5°	2447.8	2439.3	2473.4	2513.5	2574.2	2655.7	2735.9	2786.9	2794.2	2811.2
20°	2591.2	2580.3	2607.0	2643.5	2707.9	2805.2	2901.2	2974.1	2972.9	2972.9
22.5°	2757.8	2740.7	2763.8	2793.0	2853.8	2971.7	3099.3	3185.6	3185.6	3151.6
25°	2936.4	2919.4	2944.9	2971.7	3025.2	3158.8	3308.3	3415.3	3420.2	3361.8
27.5°	3160.1	3138.2	3157.6	3189.2	3220.8	3357.0	3534.4	3658.4	3660.8	3570.9
30°	3590.3	3528.3	3467.6	3433.5	3448.1	3583.0	3772.6	3910.0	3922.1	3798.1
32.5°	4377.9	4365.7	4151.8	3872.3	3726.4	3826.1	4038.8	4204.1	4211.4	4052.2
35°	5601.8	5587.2	5243.3	4710.9	4235.7	4151.8	4362.1	4557.8	4552.9	4373.0
37.5°	7062.7	7049.4	6596.0	5883.8	5114.4	4644.1	4779.0	4984.4	5014.8	4779.0
40°	8311.0	8261.1	7974.3	7287.6	6281.2	5460.8	5372.1	5508.2	5539.8	5260.3
42.5°	9256.5	9214.0	9068.2	8639.1	7693.5	6668.9	6071.0	6123.2	6158.5	5823.0
45°	9746.4	9736.6	9795.0	9754.9	9132.6	8151.7	7070.0	6852.5	6865.8	6446.5
47.5°	9815.6	9810.8	10076.9	10453.7	10369.9	9824.1	8352.3	7761.6	7714.2	7150.2
50°	9407.3	9397.5	9908.0	10614.2	11196.3	11229.2	9808.3	8786.2	8681.7	7878.3
52.5°	8103.1	8100.7	8939.3	10114.6	11486.8	12459.1	11247.4	9911.7	9736.6	8648.8
55°	6235.0	6280.0	7241.4	8630.6	10956.9	13051.0	12539.4	11161.1	10892.5	9424.3
57.5°	4416.8	4482.4	5432.9	6670.2	9313.7	12701.0	13413.2	12413.0	12123.7	10197.3
60°	2372.5	2430.8	3382.5	4859.2	6929.0	11395.7	13873.9	13499.5	13226.1	10931.4
62.5°	1413.5	1433.0	1826.8	3137.0	4686.6	8706.0	13678.2	14327.2	14102.4	11547.6
65°	1014.9	1018.5	1216.6	1915.5	2845.3	5289.5	12306.0	14723.5	14654.2	12011.9
67.5°	854.4	852.0	934.6	1272.5	1938.6	2649.6	9431.6	14163.1	14457.3	12306.0
70°	732.9	736.5	833.8	932.2	1457.3	1499.8	4689.0	12331.5	12958.7	12383.8
72.5°	545.7	557.9	647.8	849.6	1099.9	1031.9	1618.9	9143.5	10277.5	11667.9
75°	385.3	391.4	455.8	714.7	820.4	751.1	826.5	4726.7	6180.3	8945.4
77.5°	296.6	307.5	345.2	499.5	808.2	527.5	505.6	1635.9	2513.5	5403.7
80°	160.4	179.9	249.2	361.0	567.6	373.1	250.4	651.5	852.0	2526.8
82.5°	82.6	92.4	173.8	260.1	323.3	325.7	124.0	271.0	351.3	780.3
85°	32.8	40.1	116.7	143.4	166.5	160.4	55.9	109.4	126.4	216.3
87.5°	7.3	12.2	42.5	32.8	31.6	34.0	13.4	25.5	24.3	25.5
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°
2180.4	0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2195.0	2.5°	2193.8	2188.9	2175.6	2161.0	2144.0	2134.3	2128.2	2127.0	2118.5	2112.4
2243.6	5°	2230.3	2225.4	2199.9	2169.5	2136.7	2111.2	2086.9	2065.0	2033.4	2027.3
2314.1	7.5°	2303.2	2289.8	2248.5	2207.2	2145.2	2071.1	1981.1	1877.8	1785.4	1757.5
2407.7	10°	2393.1	2374.9	2322.6	2249.7	2112.4	1910.6	1693.1	1491.3	1330.9	1285.9
2518.3	12.5°	2495.2	2479.4	2410.2	2275.2	1975.0	1609.2	1276.2	1025.8	870.2	831.3
2636.2	15°	2616.8	2593.7	2497.7	2236.4	1729.5	1222.7	876.3	728.0	672.1	664.8
2771.1	17.5°	2745.6	2707.9	2575.4	2096.6	1398.9	869.0	677.0	634.4	610.1	602.8
2907.3	20°	2863.5	2814.9	2621.6	1885.1	1045.3	677.0	606.5	578.5	556.7	548.1
3043.4	22.5°	2981.4	2912.1	2621.6	1597.0	783.9	600.4	556.7	531.1	505.6	494.7
3189.2	25°	3104.2	3011.8	2575.4	1276.2	630.8	550.6	509.3	481.3	459.4	446.1
3327.8	27.5°	3223.3	3095.6	2469.7	972.3	561.5	506.8	465.5	438.8	418.1	408.4
3478.5	30°	3336.3	3178.3	2321.4	737.8	516.5	464.3	425.4	402.3	381.6	371.9
3674.2	32.5°	3489.4	3282.8	2163.4	605.3	477.7	424.2	388.9	367.1	348.8	341.5
3928.2	35°	3702.1	3437.2	2027.3	594.3	444.8	391.4	356.1	335.5	317.2	311.1
4256.4	37.5°	4003.6	3686.3	1955.6	667.3	418.1	362.2	329.4	307.5	290.5	285.6
4673.2	40°	4375.5	4024.2	1994.5	740.2	399.9	336.7	305.1	283.2	268.6	262.5
5152.1	42.5°	4816.7	4441.1	2209.6	796.1	387.7	314.8	282.0	257.7	247.9	245.5
5695.4	45°	5323.5	4899.3	2539.0	855.6	368.3	294.1	258.9	240.7	233.4	232.1
6286.1	47.5°	5899.6	5402.5	2920.6	929.8	348.8	274.7	240.7	228.5	222.4	220.0
6902.3	50°	6470.8	5909.3	3313.2	971.1	333.0	256.5	226.1	216.3	211.5	210.3
7553.8	52.5°	7068.8	6430.7	3630.4	932.2	319.7	241.9	213.9	206.6	201.8	200.5
8154.2	55°	7638.8	6852.5	3685.1	791.2	292.9	227.3	200.5	196.9	190.8	190.8
8763.1	57.5°	8129.9	7064.0	3298.6	581.0	266.2	205.4	187.2	183.5	178.7	177.4
9312.5	60°	8580.8	7003.2	2546.3	391.4	237.0	183.5	170.2	167.7	162.9	156.8
9790.1	62.5°	8834.8	6735.8	1741.7	255.2	207.8	160.4	150.7	149.5	138.6	126.4
10143.8	65°	8930.8	6186.4	1086.6	186.0	173.8	137.3	130.0	127.6	111.8	98.4
10344.3	67.5°	8847.0	5282.2	548.1	147.1	137.3	114.2	107.0	107.0	96.0	83.9
10332.2	70°	8511.5	3959.8	230.9	117.9	105.7	87.5	87.5	92.4	81.4	68.1
9796.2	72.5°	7783.5	2664.2	122.8	89.9	79.0	62.0	71.7	75.4	64.4	51.0
8018.0	75°	6187.6	1625.0	85.1	66.8	49.8	43.8	54.7	57.1	43.8	34.0
5497.3	77.5°	4232.0	933.4	57.1	42.5	31.6	25.5	37.7	35.2	23.1	15.8
2119.7	80°	1858.4	388.9	32.8	19.4	12.2	9.7	13.4	9.7	7.3	4.9
290.5	82.5°	217.6	91.2	12.2	7.3	4.9	2.4	1.2	0.0	0.0	0.0
88.7	85°	45.0	10.9	6.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0
15.8	87.5°	8.5	2.4	1.2	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

<u>180°</u>
2180.4
2118.5
2024.9
1744.1
1268.9
820.4
657.5
599.2
543.3
488.6
441.2
408.4
373.1
341.5
311.1
284.4
261.3
245.5
230.9
220.0
210.3
200.5
189.6
176.2
155.6
124.0
97.2
82.6
66.8
51.0
32.8
17.0
4.9
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