

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: P951523

Luminaire Tested: **GALN-SB5C-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951523
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-SB5C-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 615mA 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: 17599 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

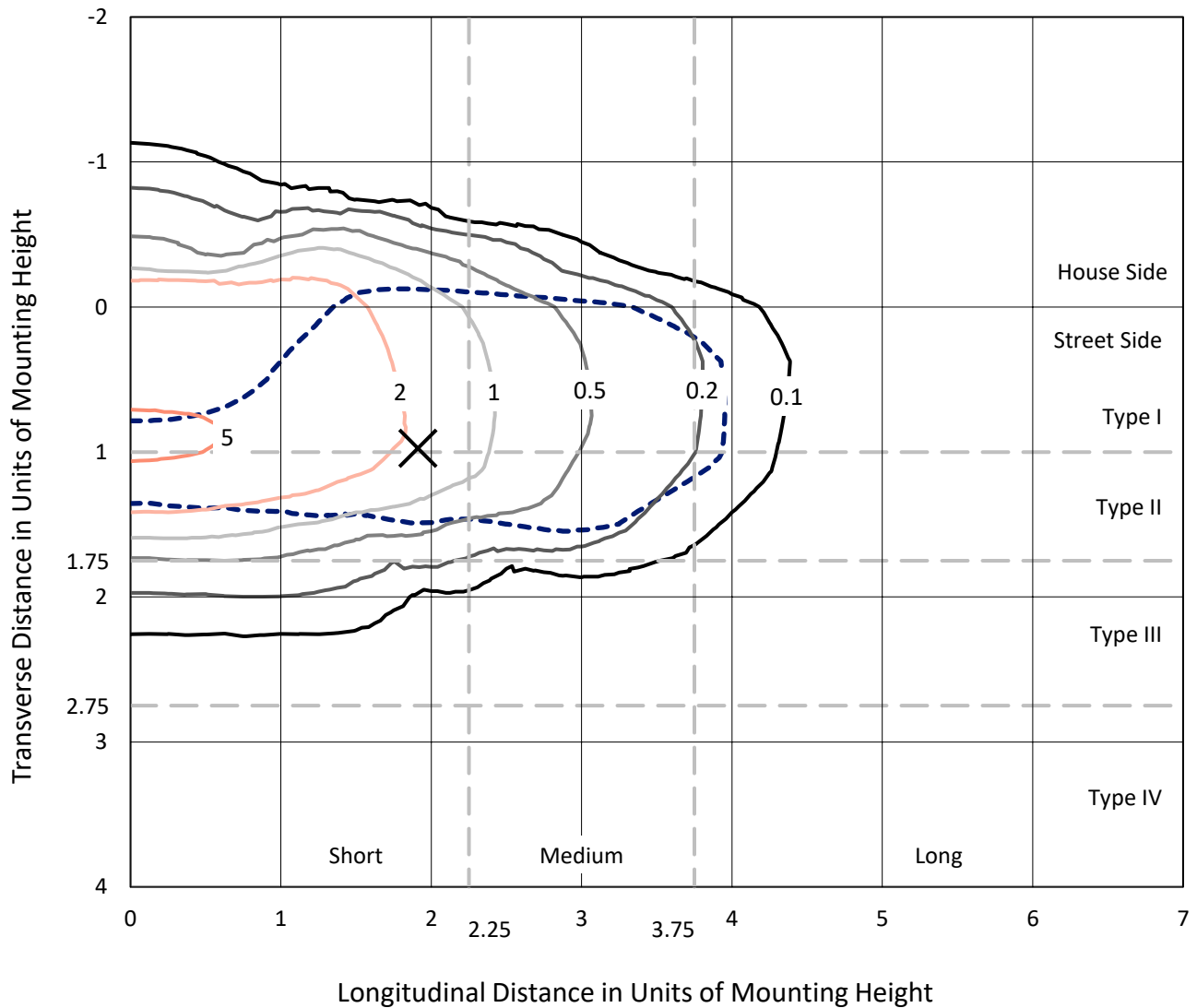
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

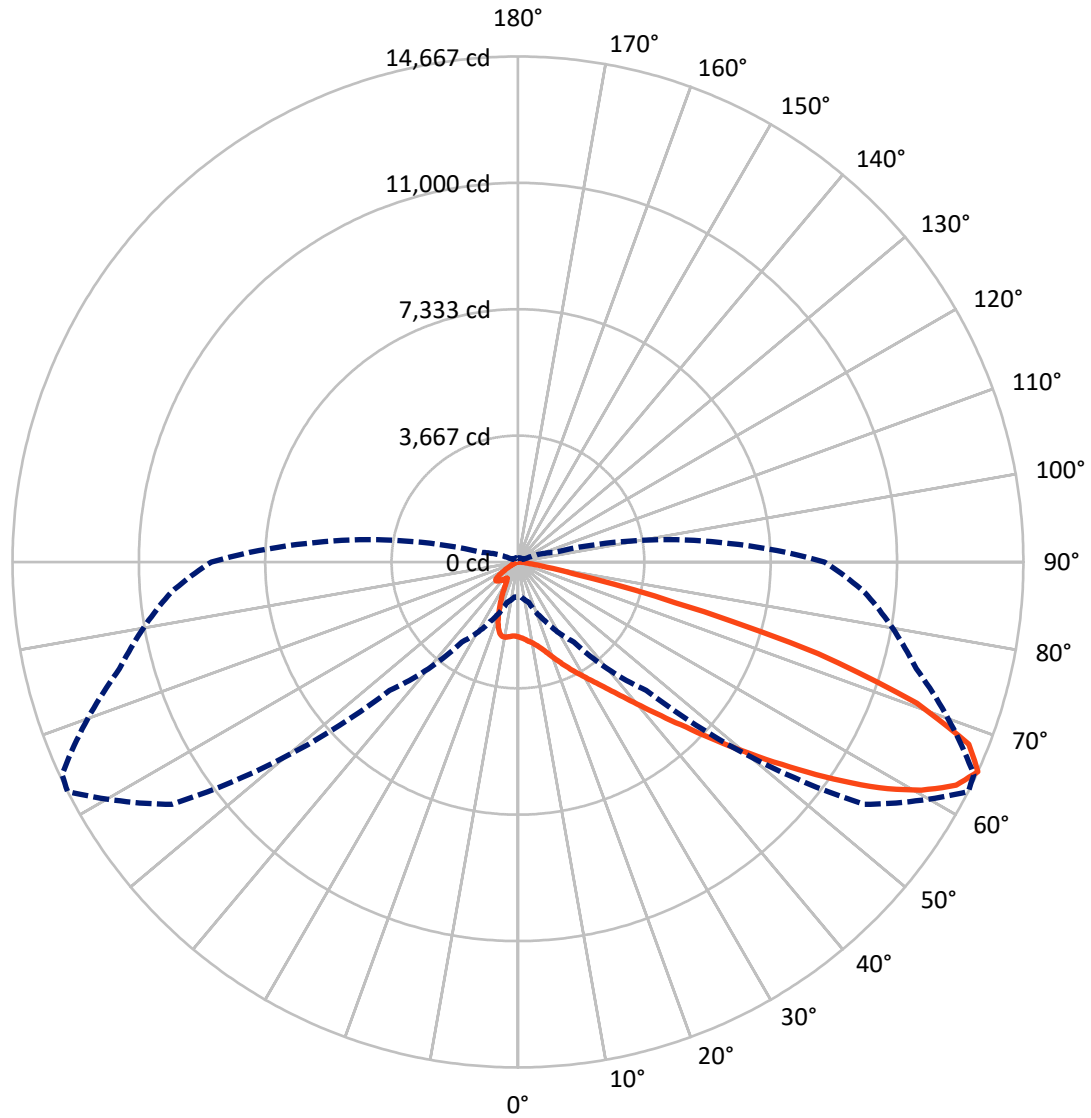
✕ Max cd
 - - - 1/2 Max cd



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	2586.9	0.0	2586.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15012.1	0.0	15012.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	17599.0	0.0	17599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	1.2
10°-20°	567.8	3.2
20°-30°	988.7	5.6
30°-40°	1782.1	10.1
40°-50°	3534.4	20.1
50°-60°	4814.5	27.4
60°-70°	3842.9	21.8
70°-80°	1739.0	9.9
80°-90°	125.0	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°	17599.0	100.0
0°-180°	17599.0	100.0

Coefficient of Utilization



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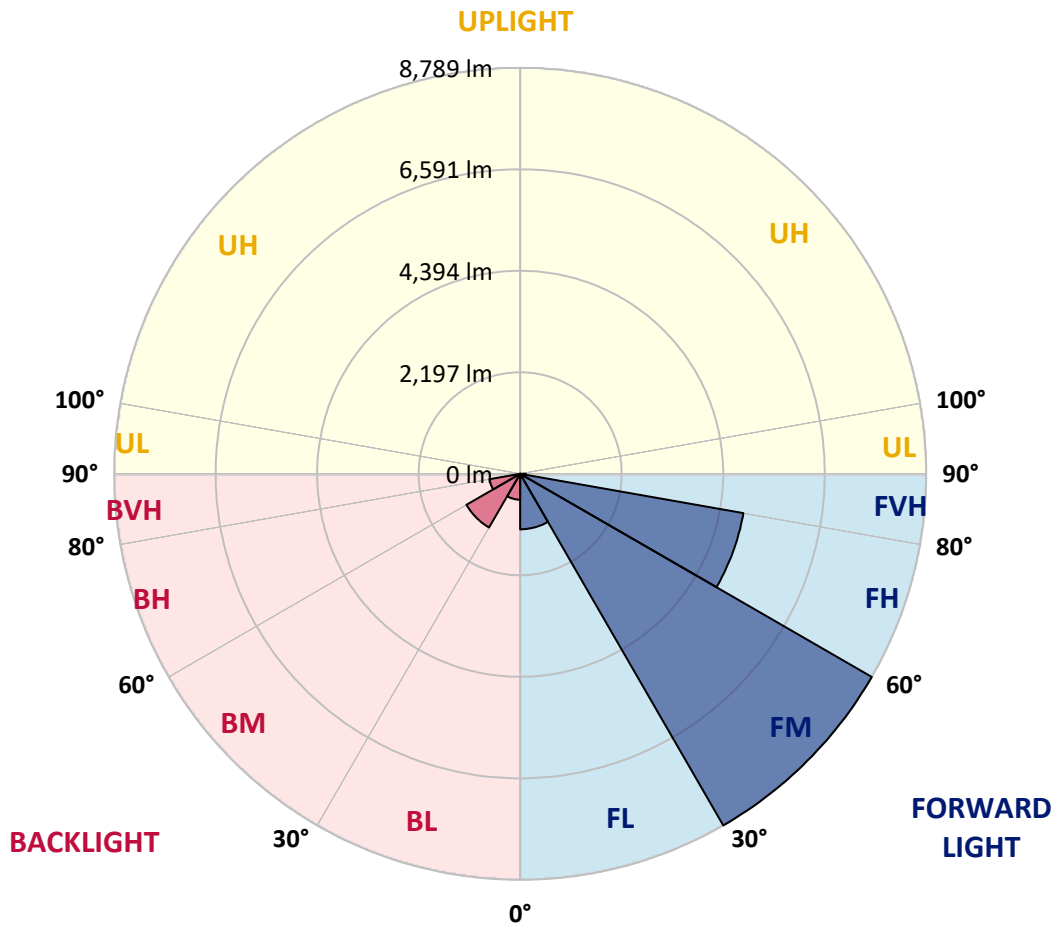
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.3	6.8			
FM (30°-60°)	8788.5	49.9			
FH (60°-80°)	4906.5	27.9			G2/5000
FVH (80°-90°)	115.7	0.7			G2/225
BL (0°-30°)	559.9	3.2	B2/1000		
BM (30°-60°)	1342.5	7.6	B2/2500		
BH (60°-80°)	675.3	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°	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0
2.5°	2222.9	2216.8	2225.3	2221.7	2219.3	2214.4	2212.0	2209.6	2204.7	2201.1
5°	2229.0	2225.3	2233.8	2241.1	2248.3	2255.6	2259.2	2264.1	2259.2	2249.5
7.5°	2178.1	2175.7	2193.8	2215.6	2248.3	2276.2	2306.4	2323.4	2324.6	2321.0
10°	2174.5	2168.4	2186.6	2213.2	2255.6	2305.2	2358.5	2394.8	2399.7	2415.4
12.5°	2231.4	2225.3	2250.7	2279.8	2323.4	2375.5	2440.8	2491.7	2498.9	2520.7
15°	2327.0	2318.5	2347.6	2385.1	2440.8	2500.2	2569.2	2615.2	2621.2	2647.9
17.5°	2438.4	2429.9	2463.8	2503.8	2564.3	2645.4	2725.4	2776.2	2783.5	2800.4
20°	2581.3	2570.4	2597.0	2633.3	2697.5	2794.4	2890.0	2962.7	2961.4	2961.4
22.5°	2747.1	2730.2	2753.2	2782.3	2842.8	2960.2	3087.4	3173.3	3173.3	3139.4
25°	2925.1	2908.2	2933.6	2960.2	3013.5	3146.7	3295.6	3402.2	3407.0	3348.9
27.5°	3147.9	3126.1	3145.5	3177.0	3208.4	3344.0	3520.8	3644.3	3646.7	3557.1
30°	3576.5	3514.7	3454.2	3420.3	3434.8	3569.2	3758.1	3894.9	3907.0	3783.5
32.5°	4361.0	4348.9	4135.9	3857.4	3712.1	3811.4	4023.3	4187.9	4195.2	4036.6
35°	5580.3	5565.7	5223.1	4692.8	4219.4	4135.9	4345.3	4540.2	4535.4	4356.2
37.5°	7035.6	7022.2	6570.6	5861.1	5094.8	4626.2	4760.6	4965.2	4995.5	4760.6
40°	8279.0	8229.3	7943.6	7259.5	6257.1	5439.8	5351.4	5487.0	5518.5	5240.0
42.5°	9220.9	9178.5	9033.3	8605.9	7663.9	6643.3	6047.6	6099.7	6134.8	5800.6
45°	9708.8	9699.2	9757.3	9717.3	9097.4	8120.4	7042.8	6826.1	6839.4	6421.7
47.5°	9777.9	9773.0	10038.2	10413.5	10329.9	9786.3	8320.1	7731.7	7684.5	7122.7
50°	9371.0	9361.4	9869.9	10573.3	11153.2	11185.9	9770.6	8752.4	8648.2	7848.0
52.5°	8071.9	8069.5	8904.9	10075.7	11442.6	12411.2	11204.1	9873.5	9699.2	8615.6
55°	6211.0	6255.8	7213.5	8597.4	10914.7	13000.8	12491.1	11118.1	10850.6	9388.0
57.5°	4399.8	4465.2	5412.0	6644.5	9277.8	12652.1	13361.6	12365.2	12077.0	10158.0
60°	2363.3	2421.5	3369.5	4840.5	6902.4	11351.8	13820.5	13447.6	13175.2	10889.3
62.5°	1408.1	1427.5	1819.7	3124.9	4668.6	8672.5	13625.6	14272.1	14048.1	11503.1
65°	1011.0	1014.6	1211.9	1908.1	2834.3	5269.1	12258.6	14666.8	14597.8	11965.6
67.5°	851.1	848.7	931.1	1267.6	1931.1	2639.4	9395.3	14108.6	14401.6	12258.6
70°	730.1	733.7	830.6	928.6	1451.7	1494.0	4671.0	12284.1	12908.8	12336.1
72.5°	543.6	555.7	645.3	846.3	1095.7	1027.9	1612.7	9108.3	10237.9	11623.0
75°	383.8	389.9	454.0	711.9	817.2	748.2	823.3	4708.5	6156.6	8911.0
77.5°	295.4	306.3	343.8	497.6	805.1	525.5	503.7	1629.6	2503.8	5382.9
80°	159.8	179.2	248.2	359.6	565.4	371.7	249.4	649.0	848.7	2517.1
82.5°	82.3	92.0	173.1	259.1	322.1	324.5	123.5	270.0	349.9	777.3
85°	32.7	40.0	116.2	142.9	165.9	159.8	55.7	109.0	125.9	215.5
87.5°	7.3	12.1	42.4	32.7	31.5	33.9	13.3	25.4	24.2	25.4
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°
2172.0	0°	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0	2172.0
2186.6	2.5°	2185.4	2180.5	2167.2	2152.7	2135.7	2126.0	2120.0	2118.8	2110.3	2104.2
2235.0	5°	2221.7	2216.8	2191.4	2161.2	2128.5	2103.0	2078.8	2057.0	2025.6	2019.5
2305.2	7.5°	2294.3	2281.0	2239.8	2198.7	2136.9	2063.1	1973.5	1870.6	1778.6	1750.7
2398.5	10°	2383.9	2365.8	2313.7	2241.1	2104.2	1903.3	1686.5	1485.6	1325.7	1281.0
2508.6	12.5°	2485.6	2469.9	2400.9	2266.5	1967.4	1603.0	1271.3	1021.9	866.9	828.1
2626.1	15°	2606.7	2583.7	2488.0	2227.7	1722.9	1218.0	872.9	725.2	669.5	662.3
2760.5	17.5°	2735.0	2697.5	2565.5	2088.5	1393.5	865.7	674.4	632.0	607.8	600.5
2896.1	20°	2852.5	2804.1	2611.5	1877.8	1041.2	674.4	604.2	576.3	554.5	546.0
3031.7	22.5°	2969.9	2900.9	2611.5	1590.9	780.9	598.1	554.5	529.1	503.7	492.8
3177.0	25°	3092.2	3000.2	2565.5	1271.3	628.4	548.5	507.3	479.4	457.7	444.3
3315.0	27.5°	3210.9	3083.7	2460.2	968.6	559.4	504.9	463.7	437.1	416.5	406.8
3465.1	30°	3323.5	3166.1	2312.5	734.9	514.6	462.5	423.8	400.8	380.2	370.5
3660.0	32.5°	3476.0	3270.2	2155.1	602.9	475.8	422.5	387.4	365.6	347.5	340.2
3913.1	35°	3687.9	3423.9	2019.5	592.0	443.1	389.9	354.7	334.2	316.0	309.9
4240.0	37.5°	3988.1	3672.1	1948.1	664.7	416.5	360.8	328.1	306.3	289.4	284.5
4655.3	40°	4358.6	4008.7	1986.8	737.3	398.3	335.4	303.9	282.1	267.6	261.5
5132.3	42.5°	4798.1	4424.0	2201.1	793.0	386.2	313.6	280.9	256.7	247.0	244.6
5673.5	45°	5303.0	4880.5	2529.2	852.4	366.9	293.0	257.9	239.7	232.5	231.2
6261.9	47.5°	5876.9	5381.7	2909.4	926.2	347.5	273.6	239.7	227.6	221.6	219.1
6875.7	50°	6445.9	5886.6	3300.4	967.4	331.7	255.5	225.2	215.5	210.7	209.5
7524.7	52.5°	7041.6	6406.0	3616.4	928.6	318.4	240.9	213.1	205.8	201.0	199.8
8122.8	55°	7609.4	6826.1	3670.9	788.2	291.8	226.4	199.8	196.1	190.1	190.1
8729.4	57.5°	8098.6	7036.8	3285.9	578.7	265.1	204.6	186.5	182.8	178.0	176.8
9276.6	60°	8547.8	6976.2	2536.5	389.9	236.1	182.8	169.5	167.1	162.2	156.2
9752.4	62.5°	8800.8	6709.9	1735.0	254.3	207.0	159.8	150.1	148.9	138.0	125.9
10104.8	65°	8896.4	6162.6	1082.4	185.2	173.1	136.8	129.5	127.1	111.4	98.1
10304.5	67.5°	8812.9	5261.8	546.0	146.5	136.8	113.8	106.5	106.5	95.6	83.5
10292.4	70°	8478.7	3944.6	230.0	117.4	105.3	87.2	87.2	92.0	81.1	67.8
9758.5	72.5°	7753.5	2653.9	122.3	89.6	78.7	61.7	71.4	75.1	64.2	50.9
7987.2	75°	6163.8	1618.7	84.8	66.6	49.6	43.6	54.5	56.9	43.6	33.9
5476.1	77.5°	4215.8	929.8	56.9	42.4	31.5	25.4	37.5	35.1	23.0	15.7
2111.5	80°	1851.2	387.4	32.7	19.4	12.1	9.7	13.3	9.7	7.3	4.8
289.4	82.5°	216.7	90.8	12.1	7.3	4.8	2.4	1.2	0.0	0.0	0.0
88.4	85°	44.8	10.9	6.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0
15.7	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>
2172.0
2110.3
2017.1
1737.4
1264.0
817.2
655.0
596.9
541.2
486.7
439.5
406.8
371.7
340.2
309.9
283.3
260.3
244.6
230.0
219.1
209.5
199.8
188.9
175.6
155.0
123.5
96.9
82.3
66.6
50.9
32.7
17.0
4.8
0.0
0.0
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