

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: P950767

Luminaire Tested: **GALN-SB5A-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950767
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-SB5A-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 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: 16564 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

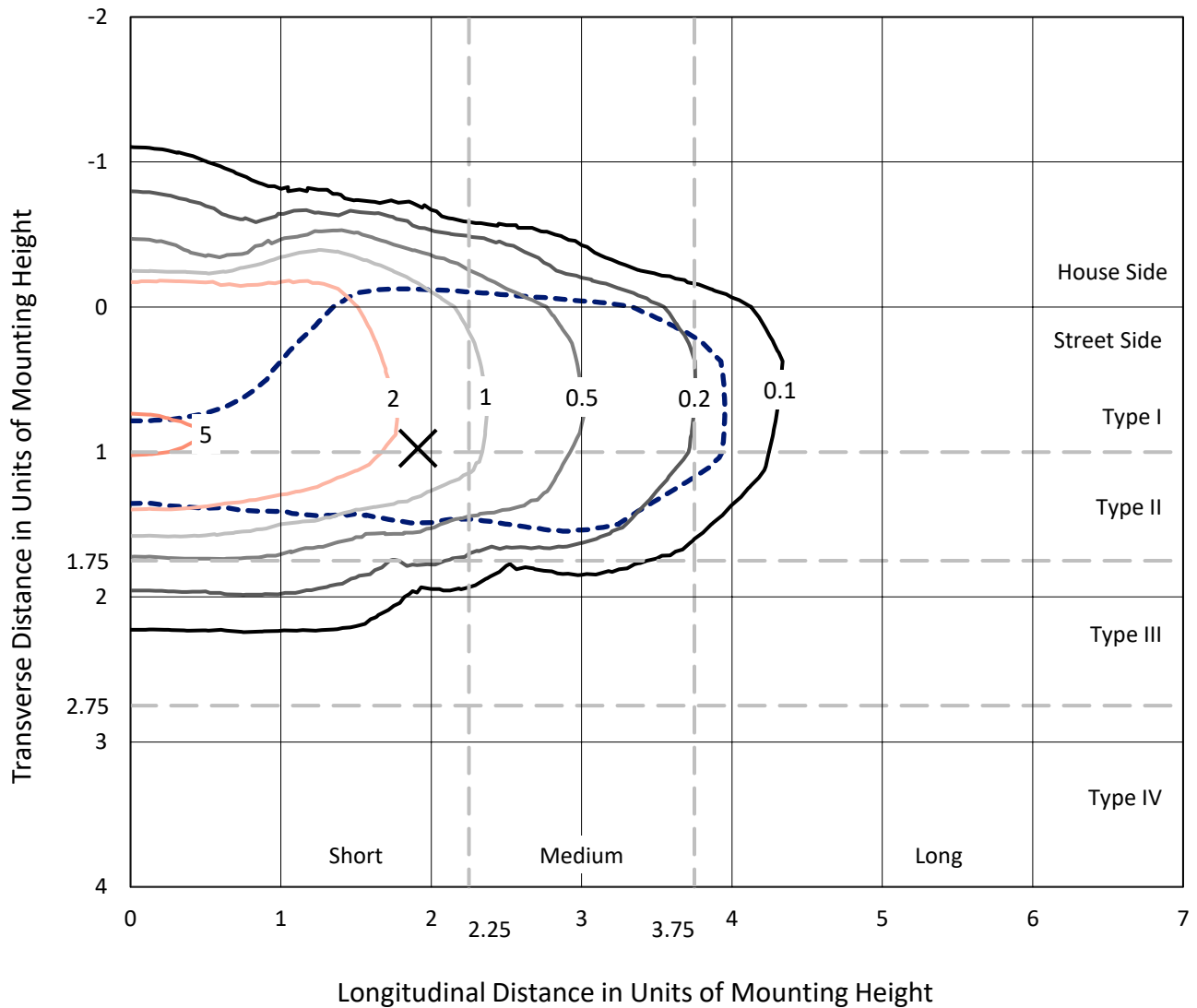
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

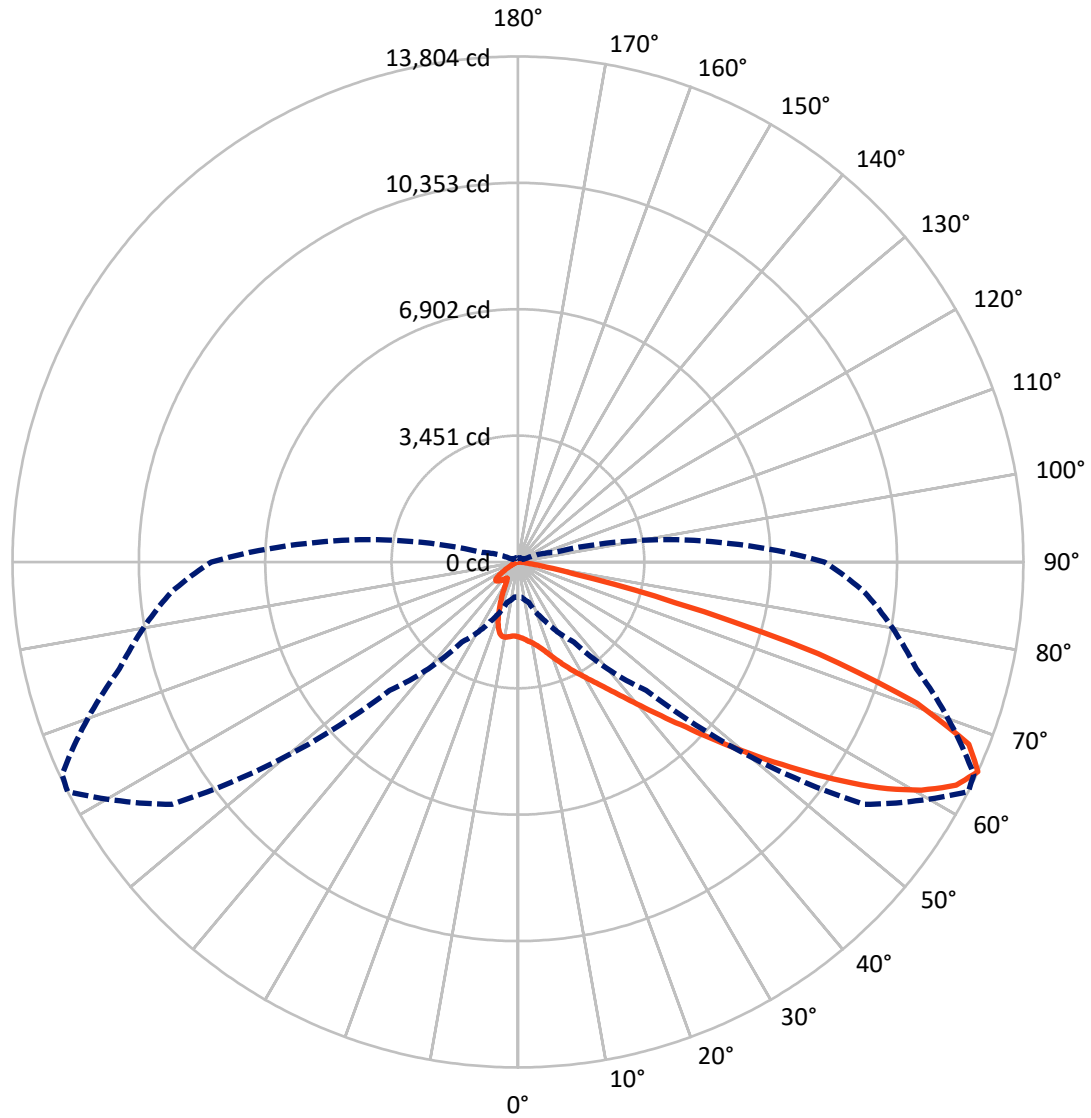
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2434.8	0.0	2434.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14129.2	0.0	14129.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	16564.0	0.0	16564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	1.2
10°-20°	534.4	3.2
20°-30°	930.6	5.6
30°-40°	1677.3	10.1
40°-50°	3326.6	20.1
50°-60°	4531.3	27.4
60°-70°	3616.9	21.8
70°-80°	1636.7	9.9
80°-90°	117.6	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°	16564.0	100.0
0°-180°	16564.0	100.0

Coefficient of Utilization



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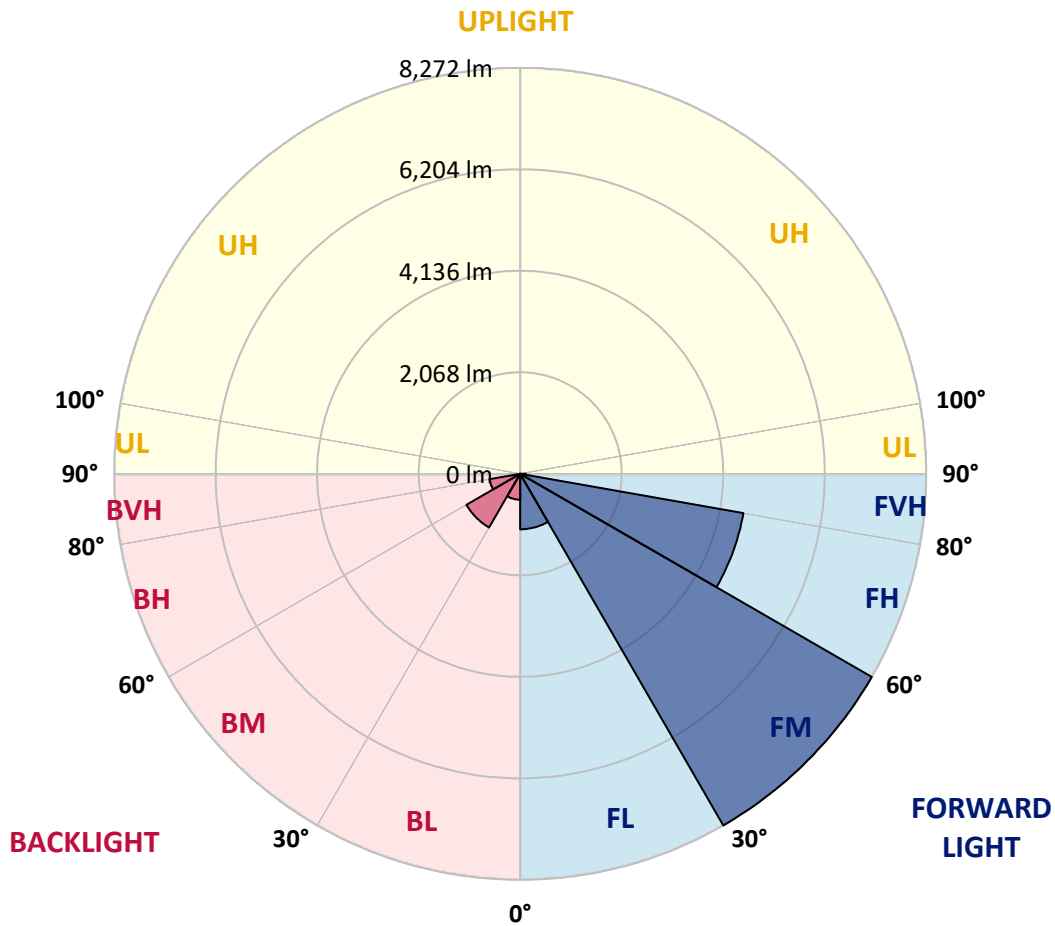
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.7	6.8			
FM (30°-60°)	8271.6	49.9			
FH (60°-80°)	4618.0	27.9			G2/5000
FVH (80°-90°)	108.9	0.7			G2/225
BL (0°-30°)	526.9	3.2	B2/1000		
BM (30°-60°)	1263.5	7.6	B2/2500		
BH (60°-80°)	635.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	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°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2.5°	2092.2	2086.5	2094.4	2091.0	2088.8	2084.2	2081.9	2079.6	2075.1	2071.7
5°	2097.9	2094.4	2102.4	2109.3	2116.1	2122.9	2126.4	2130.9	2126.4	2117.2
7.5°	2050.0	2047.7	2064.8	2085.3	2116.1	2142.3	2170.8	2186.8	2187.9	2184.5
10°	2046.6	2040.9	2058.0	2083.1	2122.9	2169.7	2219.8	2254.0	2258.5	2273.4
12.5°	2100.1	2094.4	2118.4	2145.7	2186.8	2235.8	2297.3	2345.1	2352.0	2372.5
15°	2190.2	2182.2	2209.5	2244.9	2297.3	2353.1	2418.1	2461.4	2467.1	2492.1
17.5°	2295.0	2287.0	2318.9	2356.5	2413.5	2489.9	2565.1	2612.9	2619.8	2635.7
20°	2429.5	2419.2	2444.3	2478.5	2538.9	2630.0	2720.0	2788.4	2787.3	2787.3
22.5°	2585.6	2569.6	2591.3	2618.6	2675.6	2786.1	2905.8	2986.7	2986.7	2954.8
25°	2753.1	2737.1	2761.1	2786.1	2836.3	2961.6	3101.8	3202.1	3206.6	3151.9
27.5°	2962.8	2942.3	2960.5	2990.1	3019.7	3147.4	3313.7	3430.0	3432.3	3347.9
30°	3366.2	3308.0	3251.1	3219.2	3232.8	3359.3	3537.1	3665.9	3677.3	3561.0
32.5°	4104.6	4093.2	3892.6	3630.5	3493.8	3587.2	3786.6	3941.6	3948.5	3799.2
35°	5252.1	5238.4	4915.9	4416.8	3971.2	3892.6	4089.8	4273.2	4268.7	4100.0
37.5°	6621.8	6609.3	6184.2	5516.4	4795.1	4354.1	4480.6	4673.2	4701.7	4480.6
40°	7792.1	7745.4	7476.4	6832.6	5889.1	5119.9	5036.7	5164.3	5194.0	4931.9
42.5°	8678.6	8638.8	8502.0	8099.8	7213.2	6252.6	5691.9	5740.9	5774.0	5459.5
45°	9137.9	9128.7	9183.4	9145.8	8562.4	7642.8	6628.6	6424.7	6437.2	6044.0
47.5°	9202.8	9198.3	9447.8	9801.1	9722.4	9210.8	7830.8	7277.0	7232.6	6703.8
50°	8819.9	8810.8	9289.4	9951.5	10497.3	10528.1	9196.0	8237.6	8139.6	7386.4
52.5°	7597.2	7594.9	8381.2	9483.1	10769.7	11681.3	10545.2	9292.8	9128.7	8108.9
55°	5845.8	5887.9	6789.3	8091.8	10272.8	12236.2	11756.5	10464.3	10212.4	8835.9
57.5°	4141.0	4202.6	5093.7	6253.7	8732.2	11908.1	12575.8	11638.0	11366.8	9560.6
60°	2224.4	2279.1	3171.3	4555.8	6496.4	10684.2	13007.7	12656.7	12400.3	10248.9
62.5°	1325.3	1343.5	1712.7	2941.1	4394.0	8162.4	12824.2	13432.7	13221.9	10826.6
65°	951.5	954.9	1140.7	1795.9	2667.6	4959.2	11537.7	13804.2	13739.3	11261.9
67.5°	801.1	798.8	876.3	1193.1	1817.5	2484.2	8842.7	13278.9	13554.7	11537.7
70°	687.1	690.6	781.7	874.0	1366.3	1406.2	4396.3	11561.6	12149.6	11610.6
72.5°	511.6	523.0	607.4	796.5	1031.3	967.5	1517.8	8572.7	9635.8	10939.5
75°	361.2	366.9	427.3	670.0	769.2	704.2	774.9	4431.6	5794.5	8386.9
77.5°	278.0	288.3	323.6	468.3	757.8	494.6	474.0	1533.8	2356.5	5066.3
80°	150.4	168.6	233.6	338.4	532.2	349.8	234.7	610.8	798.8	2369.1
82.5°	77.5	86.6	163.0	243.9	303.1	305.4	116.2	254.1	329.3	731.6
85°	30.8	37.6	109.4	134.5	156.1	150.4	52.4	102.6	118.5	202.8
87.5°	6.8	11.4	39.9	30.8	29.6	31.9	12.5	23.9	22.8	23.9
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°
2044.3	0°	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3	2044.3
2058.0	2.5°	2056.8	2052.3	2039.8	2026.1	2010.1	2001.0	1995.3	1994.2	1986.2	1980.5
2103.6	5°	2091.0	2086.5	2062.5	2034.1	2003.3	1979.4	1956.6	1936.1	1906.4	1900.7
2169.7	7.5°	2159.4	2146.9	2108.1	2069.4	2011.3	1941.8	1857.4	1760.6	1674.0	1647.8
2257.4	10°	2243.7	2226.6	2177.6	2109.3	1980.5	1791.3	1587.4	1398.2	1247.8	1205.6
2361.1	12.5°	2339.4	2324.6	2259.7	2133.2	1851.7	1508.7	1196.5	961.8	815.9	779.4
2471.6	15°	2453.4	2431.7	2341.7	2096.7	1621.5	1146.4	821.6	682.6	630.2	623.3
2598.1	17.5°	2574.2	2538.9	2414.7	1965.7	1311.6	814.8	634.7	594.8	572.0	565.2
2725.7	20°	2684.7	2639.1	2458.0	1767.4	980.0	634.7	568.6	542.4	521.9	513.9
2853.4	22.5°	2795.3	2730.3	2458.0	1497.3	735.0	562.9	521.9	498.0	474.0	463.8
2990.1	25°	2910.4	2823.7	2414.7	1196.5	591.4	516.2	477.5	451.3	430.7	418.2
3120.0	27.5°	3022.0	2902.4	2315.5	911.6	526.5	475.2	436.4	411.4	392.0	382.9
3261.3	30°	3128.0	2979.9	2176.5	691.7	484.3	435.3	398.8	377.2	357.8	348.7
3444.8	32.5°	3271.6	3077.9	2028.4	567.5	447.8	397.7	364.6	344.1	327.0	320.2
3682.9	35°	3471.0	3222.6	1900.7	557.2	417.1	366.9	333.9	314.5	297.4	291.7
3990.6	37.5°	3753.6	3456.2	1833.5	625.6	392.0	339.6	308.8	288.3	272.3	267.8
4381.5	40°	4102.3	3773.0	1870.0	694.0	374.9	315.6	286.0	265.5	251.8	246.1
4830.5	42.5°	4515.9	4163.8	2071.7	746.4	363.5	295.1	264.4	241.6	232.5	230.2
5339.8	45°	4991.1	4593.4	2380.5	802.2	345.3	275.8	242.7	225.6	218.8	217.6
5893.6	47.5°	5531.3	5065.2	2738.3	871.7	327.0	257.5	225.6	214.2	208.5	206.3
6471.4	50°	6066.8	5540.4	3106.3	910.5	312.2	240.4	212.0	202.8	198.3	197.1
7082.2	52.5°	6627.5	6029.2	3403.8	874.0	299.7	226.8	200.6	193.7	189.2	188.0
7645.1	55°	7161.9	6424.7	3455.0	741.8	274.6	213.1	188.0	184.6	178.9	178.9
8216.0	57.5°	7622.3	6622.9	3092.7	544.7	249.6	192.6	175.5	172.1	167.5	166.4
8731.1	60°	8045.1	6566.0	2387.3	366.9	222.2	172.1	159.5	157.3	152.7	147.0
9178.9	62.5°	8283.2	6315.3	1632.9	239.3	194.9	150.4	141.3	140.2	129.9	118.5
9510.5	65°	8373.2	5800.2	1018.7	174.3	163.0	128.8	121.9	119.7	104.8	92.3
9698.5	67.5°	8294.6	4952.4	513.9	137.9	128.8	107.1	100.3	100.3	90.0	78.6
9687.1	70°	7980.1	3712.6	216.5	110.5	99.1	82.0	82.0	86.6	76.3	63.8
9184.6	72.5°	7297.5	2497.8	115.1	84.3	74.1	58.1	67.2	70.7	60.4	47.9
7517.5	75°	5801.3	1523.5	79.8	62.7	46.7	41.0	51.3	53.6	41.0	31.9
5154.1	77.5°	3967.8	875.2	53.6	39.9	29.6	23.9	35.3	33.0	21.7	14.8
1987.3	80°	1742.3	364.6	30.8	18.2	11.4	9.1	12.5	9.1	6.8	4.6
272.3	82.5°	204.0	85.5	11.4	6.8	4.6	2.3	1.1	0.0	0.0	0.0
83.2	85°	42.2	10.3	5.7	2.3	1.1	0.0	0.0	0.0	0.0	0.0
14.8	87.5°	8.0	2.3	1.1	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°
2044.3
1986.2
1898.5
1635.2
1189.7
769.2
616.5
561.8
509.4
458.1
413.6
382.9
349.8
320.2
291.7
266.6
245.0
230.2
216.5
206.3
197.1
188.0
177.8
165.2
145.9
116.2
91.2
77.5
62.7
47.9
30.8
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