

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: P949087

Luminaire Tested: **GALN-SB3D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949087
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-SB3D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA 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: 16908 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

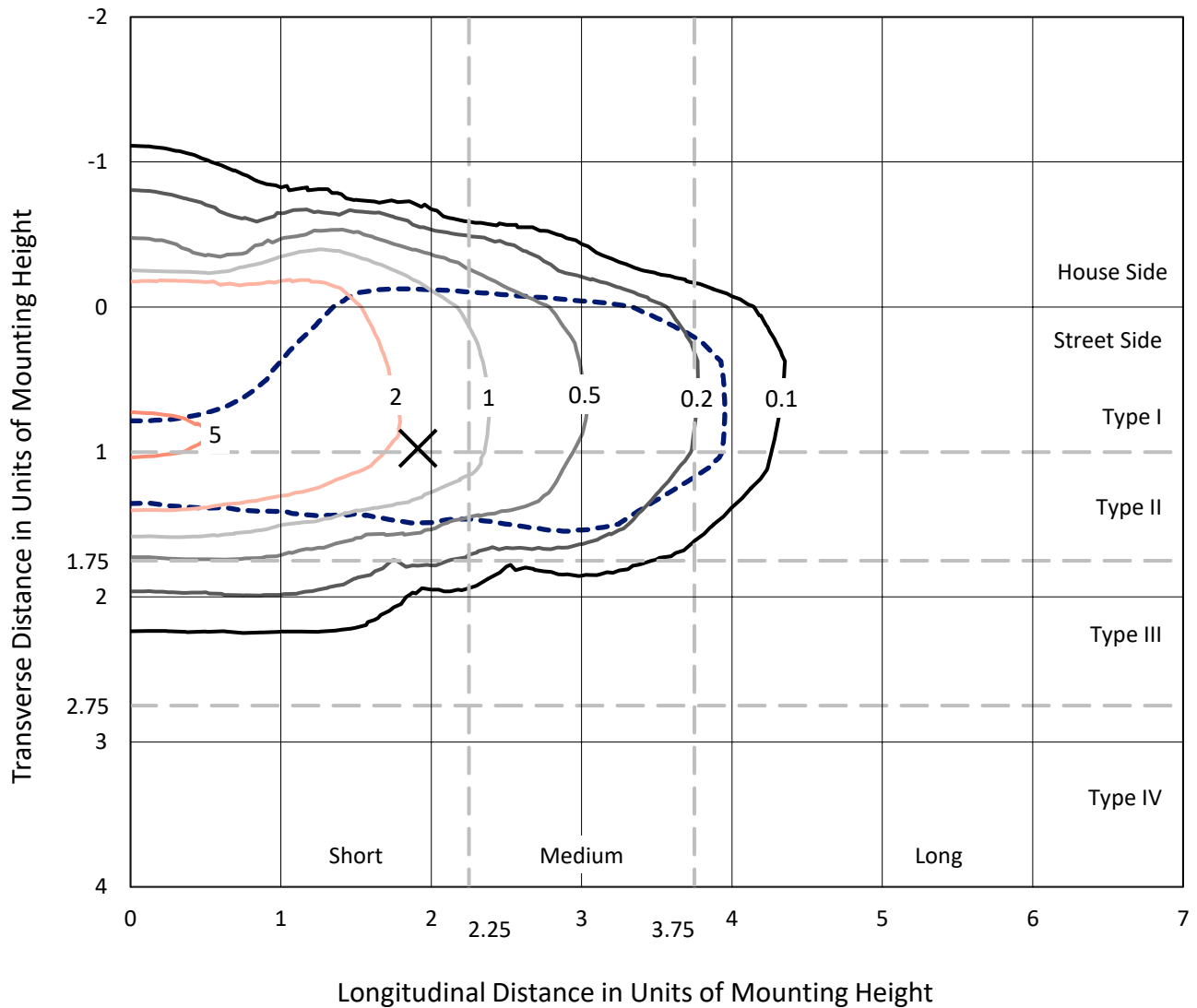
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

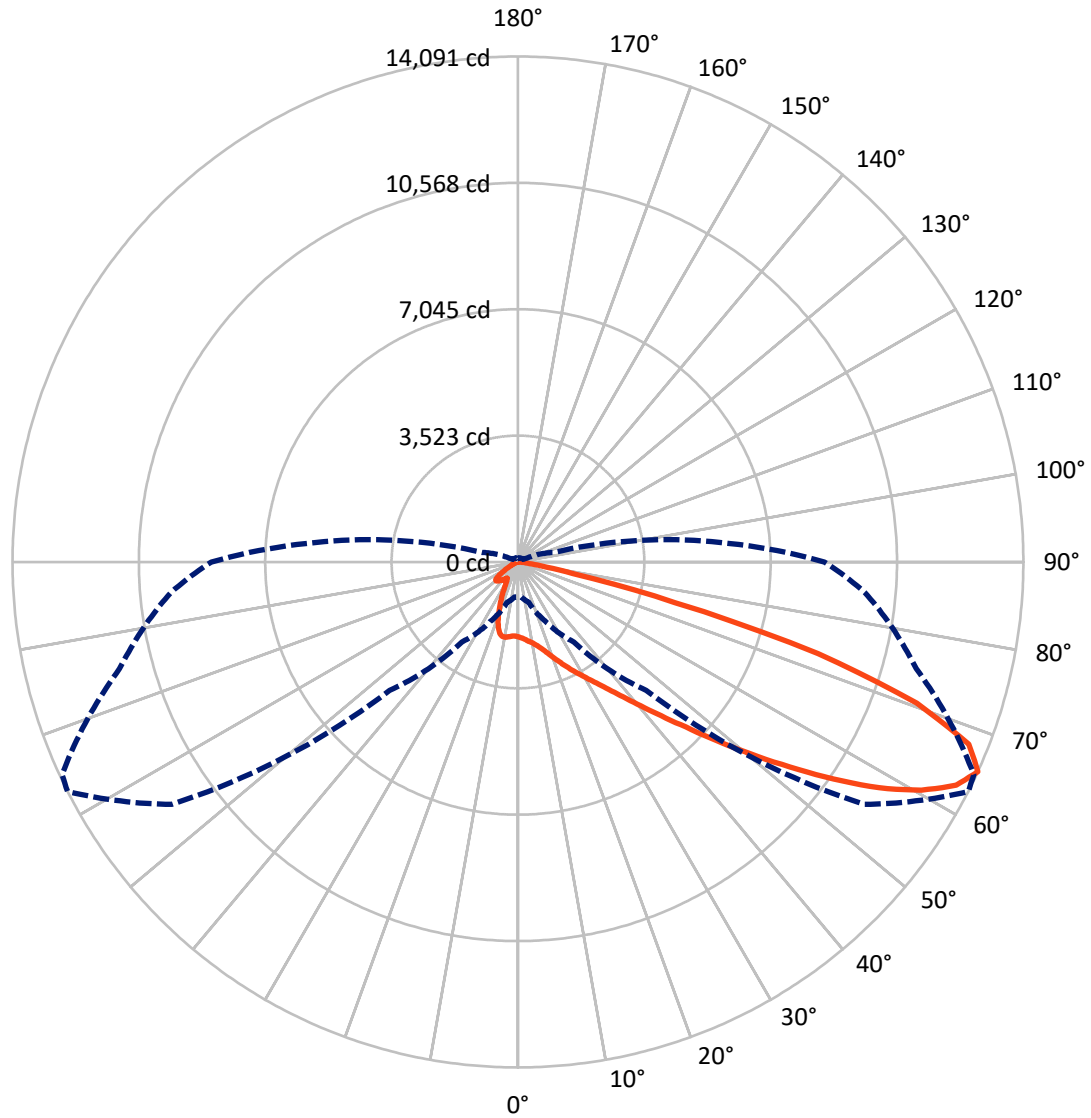
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2485.3	0.0	2485.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14422.7	0.0	14422.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	16908.0	0.0	16908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.2
10°-20°	545.5	3.2
20°-30°	949.9	5.6
30°-40°	1712.1	10.1
40°-50°	3395.6	20.1
50°-60°	4625.4	27.4
60°-70°	3692.0	21.8
70°-80°	1670.7	9.9
80°-90°	120.1	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°	16908.0	100.0
0°-180°	16908.0	100.0

Coefficient of Utilization



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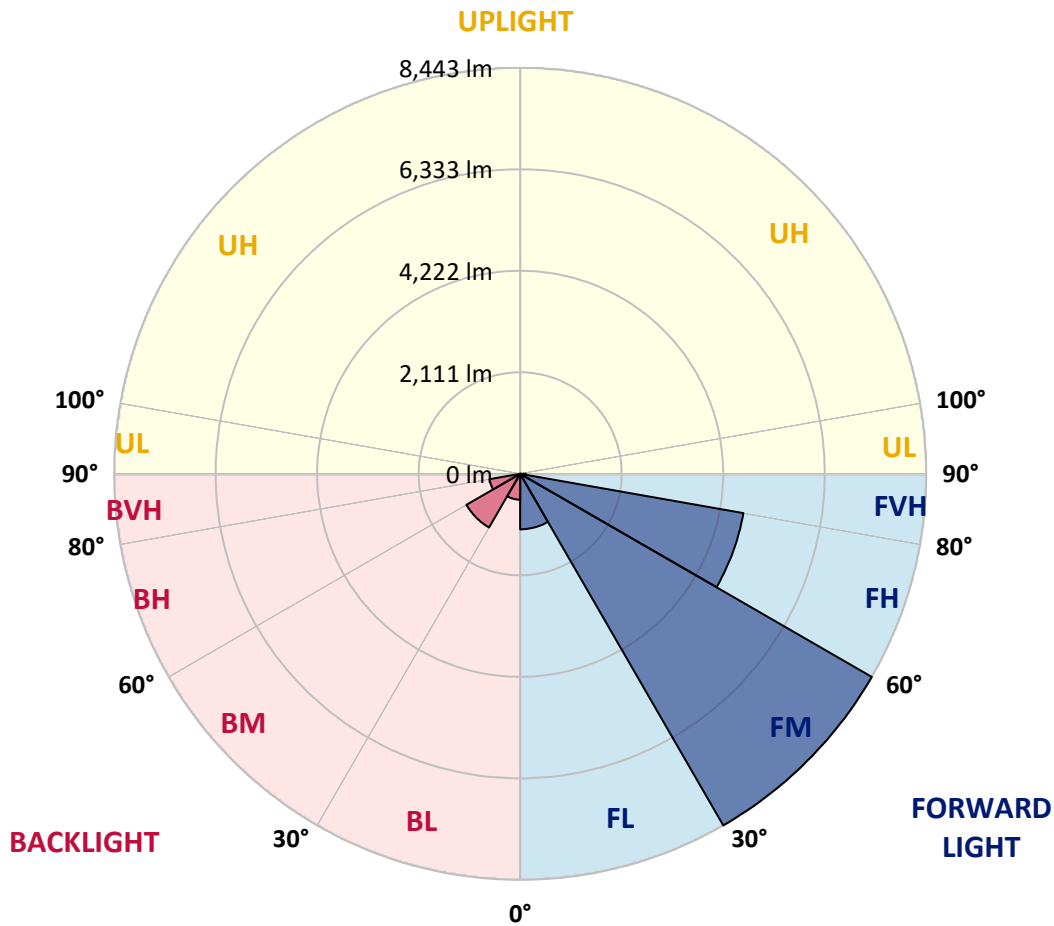
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.2	6.8			
FM (30°-60°)	8443.4	49.9			
FH (60°-80°)	4713.9	27.9			G2/5000
FVH (80°-90°)	111.2	0.7			G2/225
BL (0°-30°)	537.9	3.2	B2/1000		
BM (30°-60°)	1289.7	7.6	B2/2500		
BH (60°-80°)	648.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.9	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°	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8
2.5°	2135.6	2129.8	2137.9	2134.5	2132.1	2127.5	2125.2	2122.8	2118.2	2114.7
5°	2141.4	2137.9	2146.1	2153.1	2160.0	2167.0	2170.5	2175.2	2170.5	2161.2
7.5°	2092.6	2090.3	2107.7	2128.6	2160.0	2186.8	2215.9	2232.2	2233.3	2229.8
10°	2089.1	2083.3	2100.7	2126.3	2167.0	2214.7	2265.9	2300.8	2305.4	2320.6
12.5°	2143.8	2137.9	2162.4	2190.3	2232.2	2282.2	2345.0	2393.8	2400.8	2421.8
15°	2235.7	2227.5	2255.4	2291.5	2345.0	2402.0	2468.3	2512.5	2518.3	2543.9
17.5°	2342.7	2334.5	2367.1	2405.5	2463.6	2541.6	2618.3	2667.2	2674.2	2690.5
20°	2479.9	2469.5	2495.0	2529.9	2591.6	2684.6	2776.5	2846.3	2845.2	2845.2
22.5°	2639.3	2623.0	2645.1	2673.0	2731.2	2844.0	2966.1	3048.7	3048.7	3016.2
25°	2810.3	2794.0	2818.4	2844.0	2895.2	3023.1	3166.2	3268.6	3273.2	3217.4
27.5°	3024.3	3003.4	3022.0	3052.2	3082.5	3212.7	3382.6	3501.2	3503.5	3417.5
30°	3436.1	3376.7	3318.6	3286.0	3300.0	3429.1	3610.5	3742.0	3753.6	3635.0
32.5°	4189.8	4178.2	3973.5	3705.9	3566.3	3661.7	3865.3	4023.5	4030.5	3878.1
35°	5361.2	5347.2	5018.0	4508.5	4053.7	3973.5	4174.7	4362.0	4357.3	4185.2
37.5°	6759.3	6746.5	6312.6	5631.0	4894.7	4444.6	4573.7	4770.3	4799.3	4573.7
40°	7953.9	7906.2	7631.7	6974.5	6011.4	5226.2	5141.3	5271.6	5301.8	5034.3
42.5°	8858.9	8818.2	8678.6	8268.0	7363.0	6382.4	5810.1	5860.2	5893.9	5572.9
45°	9327.6	9318.3	9374.2	9335.8	8740.2	7801.5	6766.3	6558.1	6570.9	6169.6
47.5°	9393.9	9389.3	9644.0	10004.6	9924.4	9402.1	7993.5	7428.1	7382.8	6843.1
50°	9003.1	8993.8	9482.3	10158.2	10715.3	10746.7	9387.0	8408.7	8308.7	7539.8
52.5°	7755.0	7752.7	8555.3	9680.1	10993.3	11923.9	10764.2	9485.8	9318.3	8277.3
55°	5967.2	6010.2	6930.3	8259.8	10486.2	12490.4	12000.7	10681.6	10424.5	9019.4
57.5°	4227.0	4289.9	5199.5	6383.6	8913.5	12155.4	12837.0	11879.7	11602.8	9759.2
60°	2270.6	2326.4	3237.2	4650.4	6631.4	10906.1	13277.8	12919.6	12657.9	10461.7
62.5°	1352.8	1371.4	1748.3	3002.2	4485.3	8331.9	13090.6	13711.7	13496.5	11051.5
65°	971.3	974.8	1164.4	1833.2	2723.0	5062.2	11777.3	14090.9	14024.6	11495.8
67.5°	817.7	815.4	894.5	1217.9	1855.3	2535.8	9026.4	13554.7	13836.2	11777.3
70°	701.4	704.9	797.9	892.2	1394.7	1435.4	4487.6	11801.7	12402.0	11851.8
72.5°	522.3	533.9	620.0	813.1	1052.7	987.6	1549.4	8750.7	9836.0	11166.6
75°	368.7	374.5	436.2	684.0	785.2	718.9	791.0	4523.7	5914.8	8561.1
77.5°	283.8	294.3	330.3	478.1	773.5	504.8	483.9	1565.7	2405.5	5171.6
80°	153.5	172.2	238.5	345.5	543.2	357.1	239.6	623.5	815.4	2418.3
82.5°	79.1	88.4	166.3	248.9	309.4	311.7	118.6	259.4	336.2	746.8
85°	31.4	38.4	111.7	137.3	159.4	153.5	53.5	104.7	121.0	207.0
87.5°	7.0	11.6	40.7	31.4	30.2	32.6	12.8	24.4	23.3	24.4
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°
2086.8	0°	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8	2086.8
2100.7	2.5°	2099.6	2094.9	2082.1	2068.2	2051.9	2042.6	2036.7	2035.6	2027.4	2021.6
2147.3	5°	2134.5	2129.8	2105.4	2076.3	2044.9	2020.5	1997.2	1976.3	1946.0	1940.2
2214.7	7.5°	2204.2	2191.5	2151.9	2112.4	2053.0	1982.1	1896.0	1797.1	1708.7	1682.0
2304.3	10°	2290.3	2272.9	2222.9	2153.1	2021.6	1828.5	1620.3	1427.2	1273.7	1230.7
2410.1	12.5°	2388.0	2372.9	2306.6	2177.5	1890.2	1540.1	1221.4	981.7	832.8	795.6
2523.0	15°	2504.4	2482.3	2390.4	2140.3	1655.2	1170.2	838.7	696.8	643.2	636.3
2652.1	17.5°	2627.7	2591.6	2464.8	2006.5	1338.8	831.7	647.9	607.2	583.9	576.9
2782.4	20°	2740.5	2694.0	2509.0	1804.1	1000.3	647.9	580.4	553.7	532.7	524.6
2912.6	22.5°	2853.3	2787.0	2509.0	1528.4	750.3	574.6	532.7	508.3	483.9	473.4
3052.2	25°	2970.8	2882.4	2464.8	1221.4	603.7	526.9	487.4	460.6	439.7	426.9
3184.8	27.5°	3084.8	2962.7	2363.6	930.6	537.4	485.1	445.5	419.9	400.1	390.8
3329.1	30°	3193.0	3041.7	2221.7	706.1	494.4	444.3	407.1	385.0	365.2	355.9
3516.3	32.5°	3339.5	3141.8	2070.5	579.3	457.1	406.0	372.2	351.3	333.8	326.9
3759.4	35°	3543.1	3289.5	1940.2	568.8	425.7	374.5	340.8	321.0	303.6	297.8
4073.5	37.5°	3831.6	3528.0	1871.6	638.6	400.1	346.6	315.2	294.3	278.0	273.4
4472.5	40°	4187.5	3851.3	1908.8	708.4	382.7	322.2	292.0	271.0	257.1	251.2
4930.8	42.5°	4609.7	4250.3	2114.7	761.9	371.1	301.3	269.9	246.6	237.3	235.0
5450.7	45°	5094.8	4688.8	2429.9	818.9	352.4	281.5	247.8	230.3	223.3	222.2
6016.0	47.5°	5646.1	5170.4	2795.2	889.8	333.8	262.9	230.3	218.7	212.9	210.5
6605.8	50°	6192.8	5655.4	3170.9	929.4	318.7	245.4	216.4	207.0	202.4	201.2
7229.2	52.5°	6765.1	6154.4	3474.5	892.2	305.9	231.5	204.7	197.7	193.1	191.9
7803.9	55°	7310.7	6558.1	3526.8	757.2	280.3	217.5	191.9	188.4	182.6	182.6
8386.6	57.5°	7780.6	6760.5	3156.9	556.0	254.7	196.6	179.1	175.6	171.0	169.8
8912.4	60°	8212.1	6702.3	2436.9	374.5	226.8	175.6	162.8	160.5	155.9	150.1
9369.5	62.5°	8455.2	6446.4	1666.9	244.3	198.9	153.5	144.2	143.1	132.6	121.0
9708.0	65°	8547.1	5920.6	1039.9	178.0	166.3	131.4	124.5	122.1	107.0	94.2
9899.9	67.5°	8466.9	5055.2	524.6	140.7	131.4	109.3	102.4	102.4	91.9	80.3
9888.3	70°	8145.8	3789.7	221.0	112.8	101.2	83.7	83.7	88.4	77.9	65.1
9375.3	72.5°	7449.1	2549.7	117.5	86.1	75.6	59.3	68.6	72.1	61.6	48.9
7673.6	75°	5921.8	1555.2	81.4	64.0	47.7	41.9	52.3	54.7	41.9	32.6
5261.1	77.5°	4050.2	893.3	54.7	40.7	30.2	24.4	36.1	33.7	22.1	15.1
2028.6	80°	1778.5	372.2	31.4	18.6	11.6	9.3	12.8	9.3	7.0	4.7
278.0	82.5°	208.2	87.2	11.6	7.0	4.7	2.3	1.2	0.0	0.0	0.0
84.9	85°	43.0	10.5	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
15.1	87.5°	8.1	2.3	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

180°
2086.8
2027.4
1937.9
1669.2
1214.4
785.2
629.3
573.5
519.9
467.6
422.2
390.8
357.1
326.9
297.8
272.2
250.1
235.0
221.0
210.5
201.2
191.9
181.5
168.7
148.9
118.6
93.1
79.1
64.0
48.9
31.4
16.3
4.7
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