

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: P943626

Luminaire Tested: **GALN-SB8A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943626
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-SB8A-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA 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: 20614 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

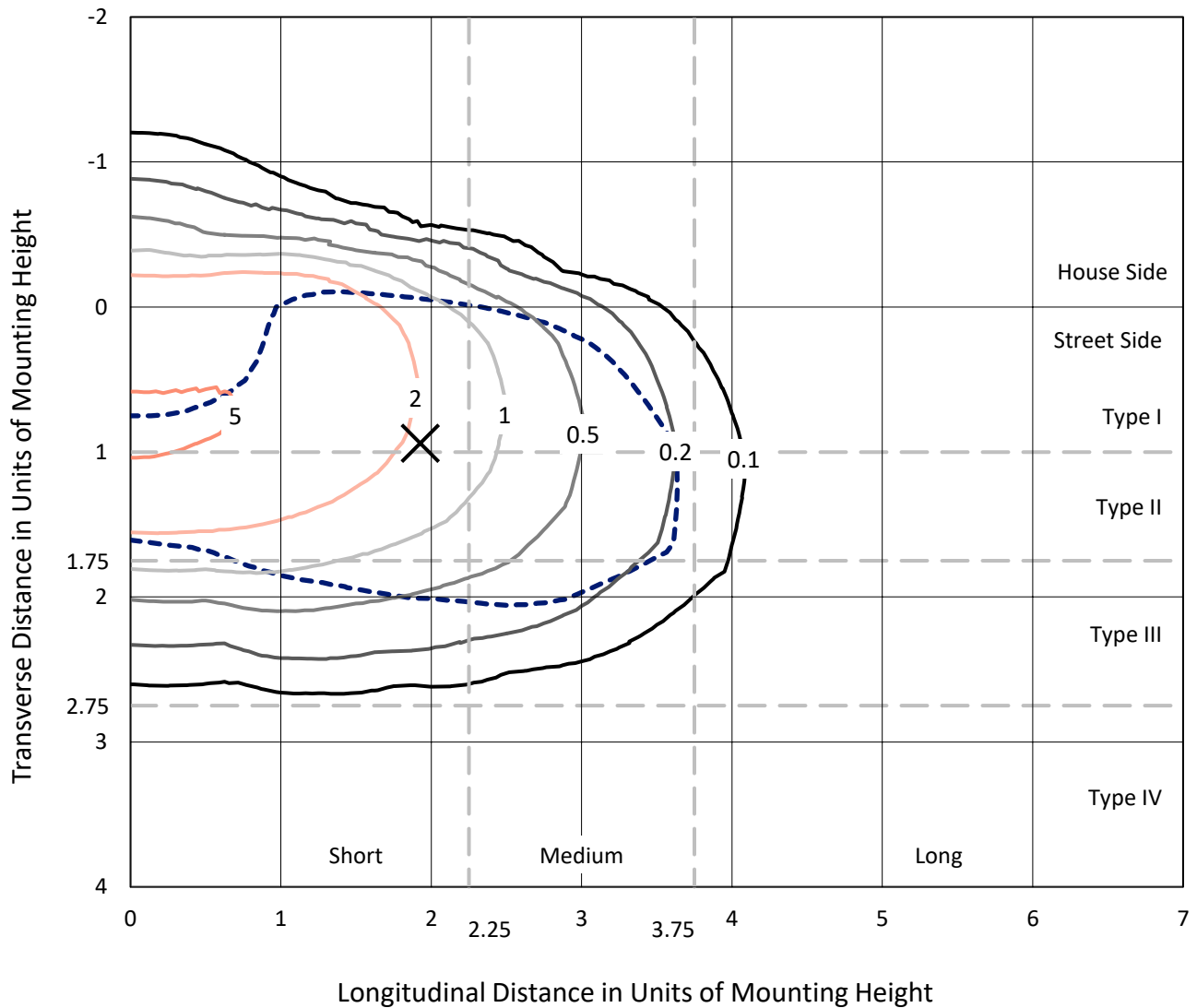
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

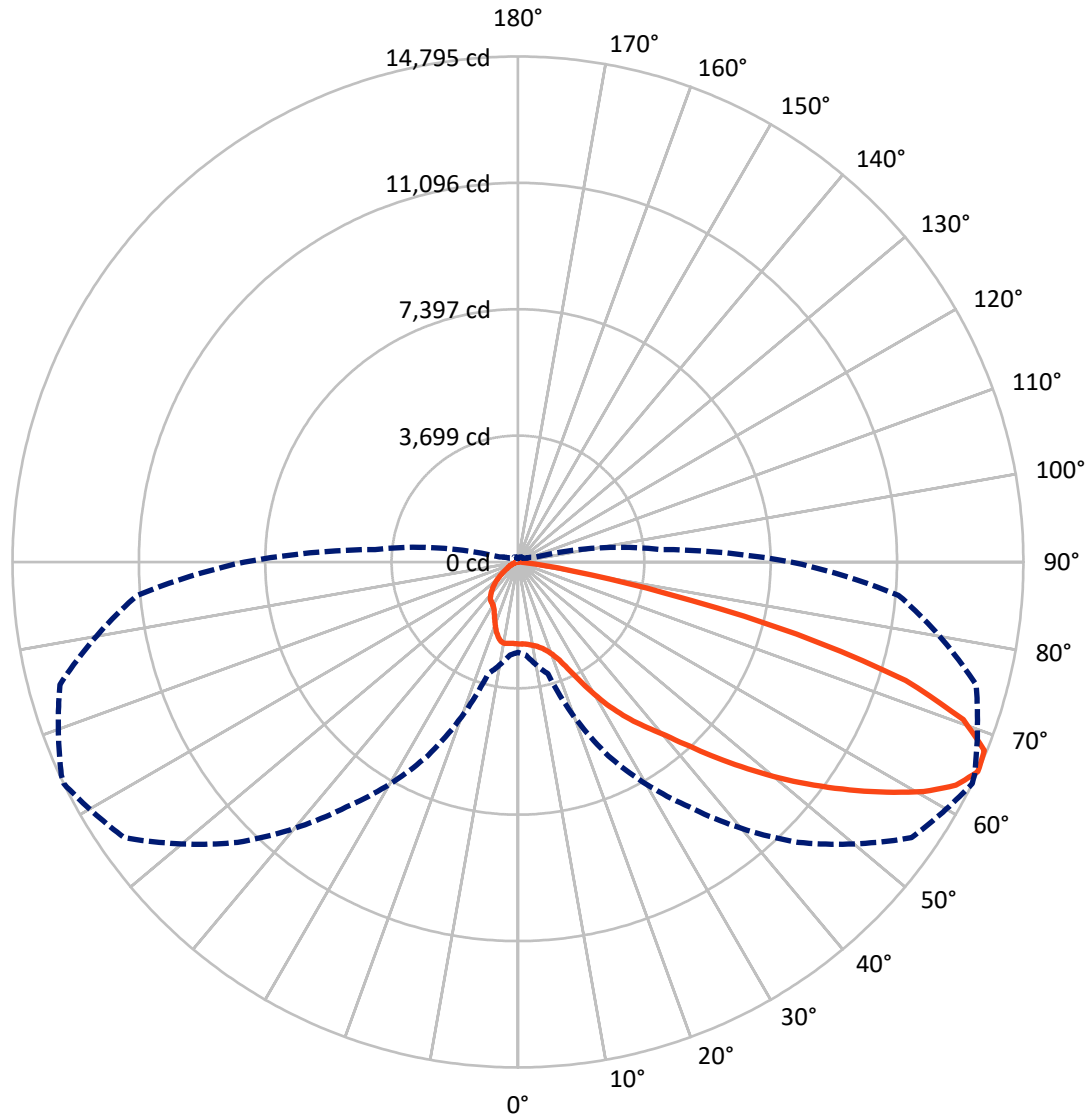
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type 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	2756.7	0.0	2756.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17857.3	0.0	17857.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	20614.0	0.0	20614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.2	1.1
10°-20°	600.0	2.9
20°-30°	1136.9	5.5
30°-40°	2300.5	11.2
40°-50°	3919.0	19.0
50°-60°	5329.5	25.9
60°-70°	5004.7	24.3
70°-80°	2005.1	9.7
80°-90°	97.1	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°	20614.0	100.0
0°-180°	20614.0	100.0

Coefficient of Utilization



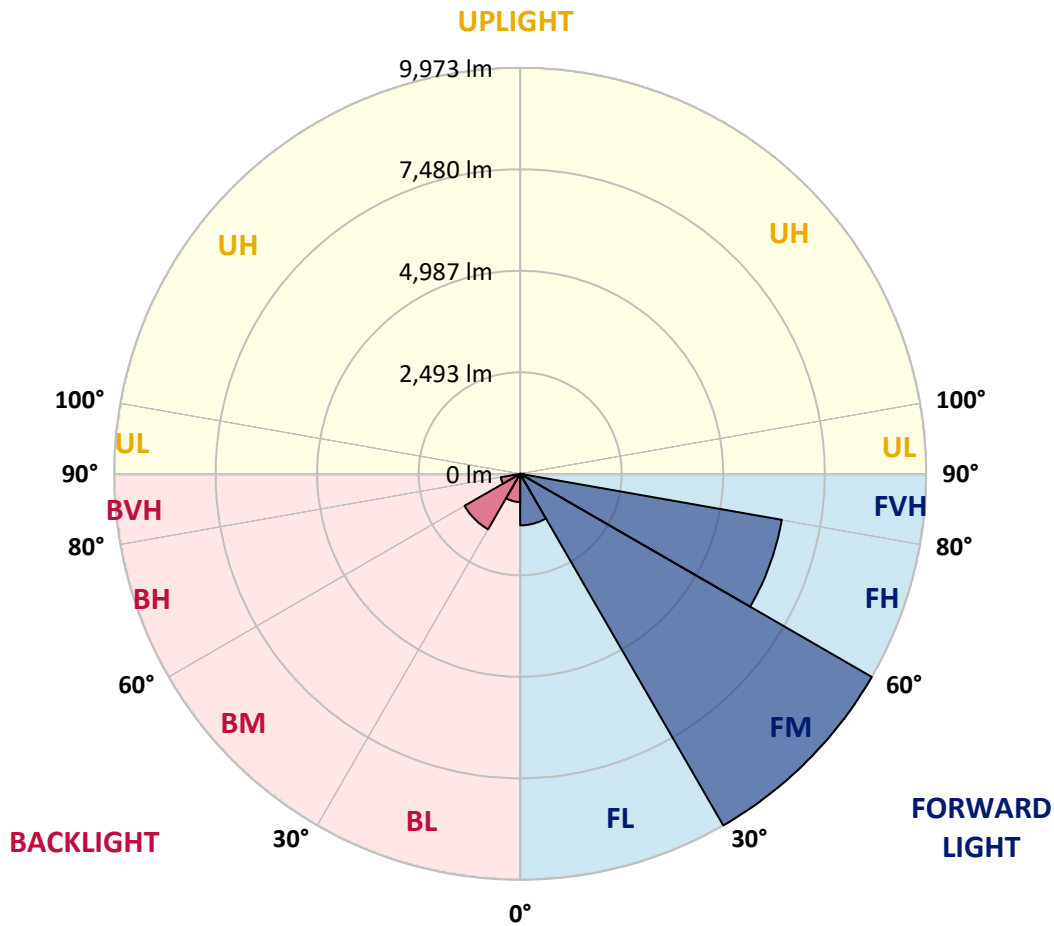
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.9	6.1			
FM (30°-60°)	9973.0	48.4			
FH (60°-80°)	6525.9	31.7			G3/7500
FVH (80°-90°)	92.4	0.4			G1/100
BL (0°-30°)	692.1	3.4	B2/1000		
BM (30°-60°)	1576.0	7.6	B2/2500		
BH (60°-80°)	483.9	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	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°	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6
2.5°	2389.3	2405.9	2401.8	2397.6	2396.2	2399.0	2400.4	2399.0	2399.0	2399.0
5°	2343.7	2357.5	2357.5	2367.2	2381.0	2397.6	2410.1	2412.8	2415.6	2419.7
7.5°	2256.7	2267.7	2276.0	2307.8	2342.3	2386.6	2423.9	2443.2	2446.0	2461.2
10°	2197.2	2211.1	2224.9	2258.0	2307.8	2374.1	2437.7	2484.7	2491.6	2527.5
12.5°	2194.5	2208.3	2226.3	2262.2	2320.2	2390.7	2468.1	2535.8	2548.3	2600.8
15°	2223.5	2240.1	2256.7	2300.9	2363.1	2448.8	2531.7	2616.0	2628.4	2703.0
17.5°	2282.9	2305.0	2317.5	2361.7	2428.0	2523.4	2632.5	2729.3	2740.3	2827.4
20°	2400.4	2426.6	2430.8	2466.7	2531.7	2633.9	2763.8	2884.1	2897.9	2997.4
22.5°	2643.6	2680.9	2647.7	2665.7	2723.8	2826.0	2967.0	3119.0	3138.3	3251.6
25°	3072.0	3124.5	3038.8	3008.4	3033.3	3139.7	3316.6	3508.7	3530.8	3622.0
27.5°	3913.6	3845.9	3716.0	3588.8	3514.2	3575.0	3774.0	4011.7	4039.3	4127.8
30°	4838.1	4778.7	4603.2	4321.2	4144.4	4134.7	4318.5	4583.8	4615.6	4699.9
32.5°	5764.0	5707.3	5516.6	5169.7	4863.0	4710.9	4838.1	5132.4	5149.0	5202.9
35°	6674.6	6616.6	6425.9	6070.8	5693.5	5348.0	5323.1	5654.8	5660.3	5717.0
37.5°	7590.9	7542.5	7339.3	6991.1	6619.4	6142.6	5911.8	6149.5	6156.4	6211.7
40°	8244.5	8265.2	8125.7	7856.2	7537.0	7016.0	6572.4	6676.0	6634.6	6727.2
42.5°	8805.6	8847.0	8725.4	8590.0	8404.8	7946.0	7390.5	7372.5	7306.2	7355.9
45°	9290.6	9325.2	9216.0	9184.2	9180.1	8858.1	8284.6	8176.8	8084.2	8074.5
47.5°	9468.9	9535.2	9582.2	9688.6	9895.9	9760.5	9209.1	9041.9	8938.2	8862.2
50°	9536.6	9607.1	9767.4	10076.9	10567.5	10625.5	10129.4	9941.5	9814.4	9676.2
52.5°	9445.4	9571.1	9786.7	10307.7	11019.4	11319.3	11012.5	10848.0	10702.9	10477.7
55°	8907.8	9033.6	9474.4	10304.9	11244.6	11805.7	11847.2	11773.9	11610.8	11255.7
57.5°	7774.7	7961.2	8659.1	9953.9	11240.5	12224.4	12665.2	12717.8	12535.3	12026.8
60°	6204.8	6457.7	7308.9	9175.9	10893.6	12451.1	13382.5	13645.0	13451.6	12786.9
62.5°	4329.5	4622.5	5428.2	7957.1	10100.4	12288.0	13906.2	14391.3	14244.8	13466.8
65°	2640.8	2734.8	3384.3	6261.5	8751.7	11605.3	14067.9	14794.8	14746.4	13882.7
67.5°	1759.2	1837.9	2024.5	4293.6	6793.5	10241.4	13681.0	14724.3	14738.1	13815.0
70°	1059.9	1127.6	1249.3	2497.1	4402.8	8106.3	12482.8	13826.1	13906.2	12909.8
72.5°	436.7	482.3	592.8	1131.8	2280.2	5144.9	9940.1	11870.6	12057.2	10854.9
75°	247.4	270.9	348.2	568.0	989.5	2397.6	6021.0	8426.9	8701.9	7481.7
77.5°	164.4	175.5	225.3	367.6	556.9	818.1	2573.1	4390.3	4915.5	4086.3
80°	110.6	120.2	154.8	246.0	362.1	351.0	819.5	1626.5	2001.0	1404.0
82.5°	74.6	76.0	110.6	161.7	229.4	170.0	241.8	505.8	635.7	406.3
85°	42.8	41.5	81.5	94.0	102.3	70.5	73.2	152.0	199.0	171.4
87.5°	5.5	8.3	31.8	24.9	13.8	15.2	15.2	26.3	38.7	41.5
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°
2397.6	0°	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6	2397.6
2400.4	2.5°	2400.4	2399.0	2394.9	2390.7	2381.0	2375.5	2378.3	2375.5	2374.1	2375.5
2418.4	5°	2418.4	2414.2	2403.1	2389.3	2370.0	2346.5	2331.3	2309.2	2288.5	2276.0
2466.7	7.5°	2466.7	2462.6	2447.4	2408.7	2346.5	2248.4	2158.6	2079.8	2020.4	1985.8
2544.1	10°	2544.1	2537.2	2513.7	2428.0	2265.0	2050.8	1872.5	1724.6	1627.9	1582.3
2635.3	12.5°	2635.3	2627.0	2585.6	2410.1	2110.2	1775.8	1529.8	1365.3	1275.5	1235.4
2740.3	15°	2743.1	2732.0	2650.5	2324.4	1884.9	1471.7	1246.5	1123.5	1065.5	1029.5
2874.4	17.5°	2877.1	2857.8	2698.9	2195.9	1640.3	1239.6	1072.4	979.8	928.6	894.1
3049.9	20°	3051.3	3019.5	2737.6	2042.5	1415.1	1093.1	954.9	877.5	838.8	808.4
3298.6	22.5°	3294.5	3248.9	2784.6	1876.6	1256.2	992.2	867.8	811.2	779.4	744.9
3645.5	25°	3595.7	3541.8	2842.6	1723.2	1147.0	905.2	804.3	757.3	720.0	679.9
4100.1	27.5°	4017.2	3920.5	2911.7	1597.5	1053.0	830.5	746.2	693.7	650.9	617.7
4615.6	30°	4487.1	4328.2	2972.5	1521.5	967.3	761.4	670.2	617.7	577.6	554.1
5078.5	32.5°	4932.1	4716.5	3012.6	1488.3	890.0	682.7	587.3	530.7	500.3	493.3
5531.8	35°	5352.2	5067.5	3008.4	1456.5	820.9	603.9	505.8	447.7	424.2	428.4
6019.6	37.5°	5835.8	5442.0	2979.4	1406.8	764.2	532.0	435.3	384.2	363.4	364.8
6612.5	40°	6398.3	5874.5	2961.4	1312.8	702.0	465.7	377.3	335.8	320.6	315.1
7237.1	42.5°	6998.0	6293.2	2964.2	1206.4	624.6	406.3	337.2	302.6	288.8	284.7
7932.2	45°	7600.5	6692.6	2968.4	1095.9	543.1	360.7	308.2	279.1	270.9	265.3
8637.0	47.5°	8167.1	7032.6	2891.0	977.0	462.9	326.1	284.7	265.3	258.4	251.5
9344.5	50°	8695.0	7259.2	2704.4	838.8	399.4	298.5	266.7	252.9	246.0	239.1
9985.7	52.5°	9105.4	7295.1	2396.2	696.5	355.2	277.8	255.7	243.2	234.9	228.0
10503.9	55°	9287.8	7069.9	1958.2	563.8	320.6	259.8	244.6	232.2	222.5	215.6
10911.6	57.5°	9240.9	6595.9	1527.0	453.3	287.4	241.8	230.8	222.5	211.4	200.4
11241.9	60°	9010.1	5961.6	1151.1	377.3	257.0	222.5	215.6	208.7	193.5	176.9
11369.0	62.5°	8610.7	5164.2	820.9	312.3	223.9	200.4	197.6	192.1	170.0	139.6
11181.1	65°	7999.9	4195.5	552.8	259.8	192.1	175.5	176.9	167.2	138.2	103.6
10492.9	67.5°	7107.2	3067.9	353.8	212.8	160.3	146.5	147.9	142.3	117.5	88.4
9188.4	70°	5969.9	2031.4	230.8	161.7	128.5	113.3	121.6	123.0	99.5	71.9
7051.9	72.5°	4376.5	1199.5	161.7	120.2	94.0	78.8	99.5	102.3	80.2	53.9
4242.5	75°	2494.4	569.3	121.6	87.1	58.0	55.3	77.4	77.4	55.3	35.9
1836.6	77.5°	1047.5	237.7	85.7	56.7	33.2	31.8	52.5	48.4	27.6	16.6
447.7	80°	302.6	106.4	45.6	27.6	13.8	12.4	20.7	15.2	6.9	2.8
170.0	82.5°	118.8	47.0	18.0	11.1	5.5	5.5	2.8	0.0	0.0	0.0
96.7	85°	70.5	19.3	8.3	4.1	1.4	0.0	0.0	0.0	0.0	0.0
20.7	87.5°	18.0	4.1	2.8	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>
2397.6
2381.0
2278.8
1987.2
1578.1
1231.3
1030.9
891.3
802.9
739.3
675.8
610.8
550.0
497.5
428.4
370.4
313.7
283.3
265.3
251.5
239.1
226.6
214.2
199.0
174.1
136.8
100.9
84.3
69.1
51.1
33.2
16.6
2.8
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