

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: P944476

Luminaire Tested: **GALN-SB9B-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944476
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-SB9B-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA 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: 29149 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

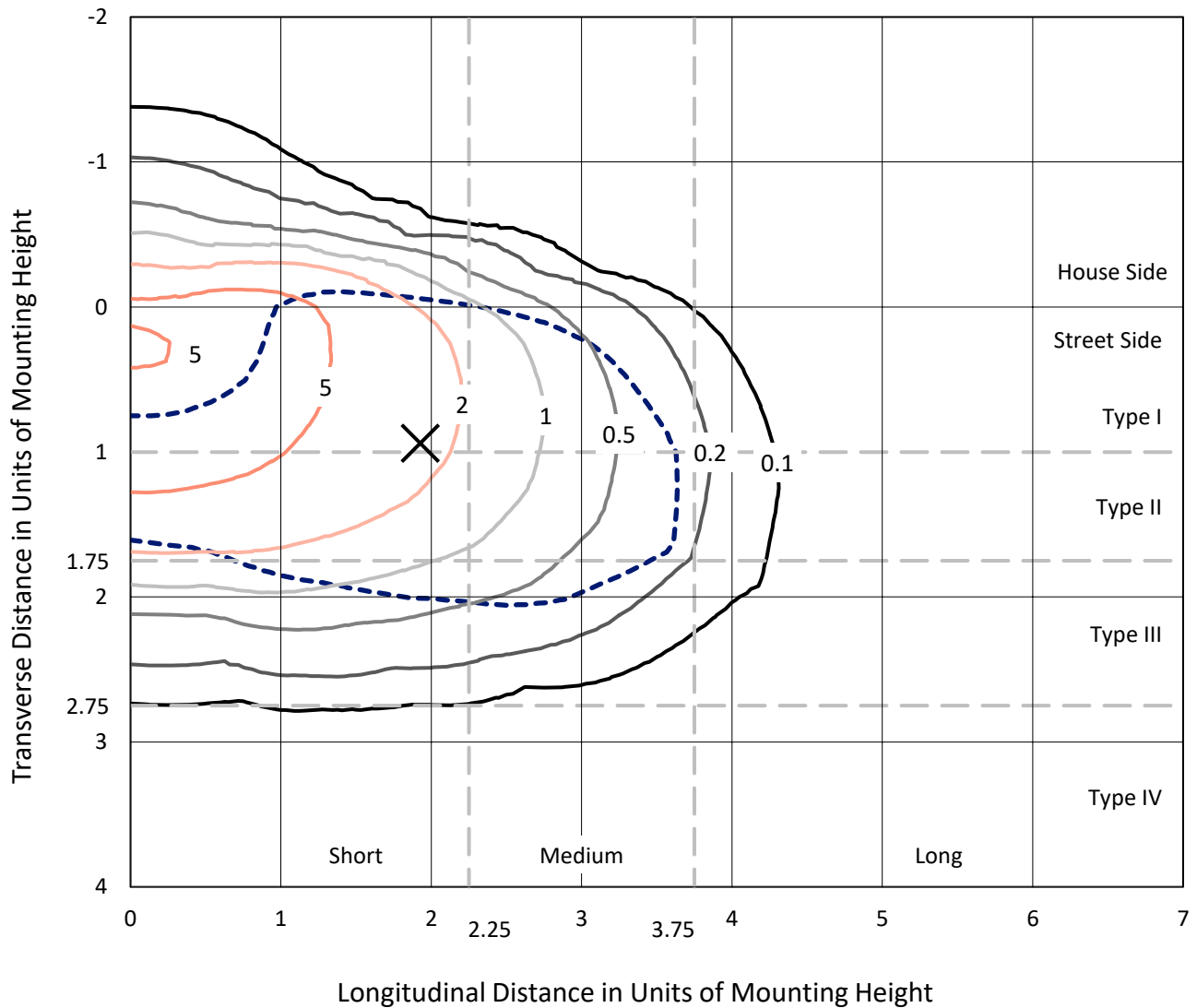
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

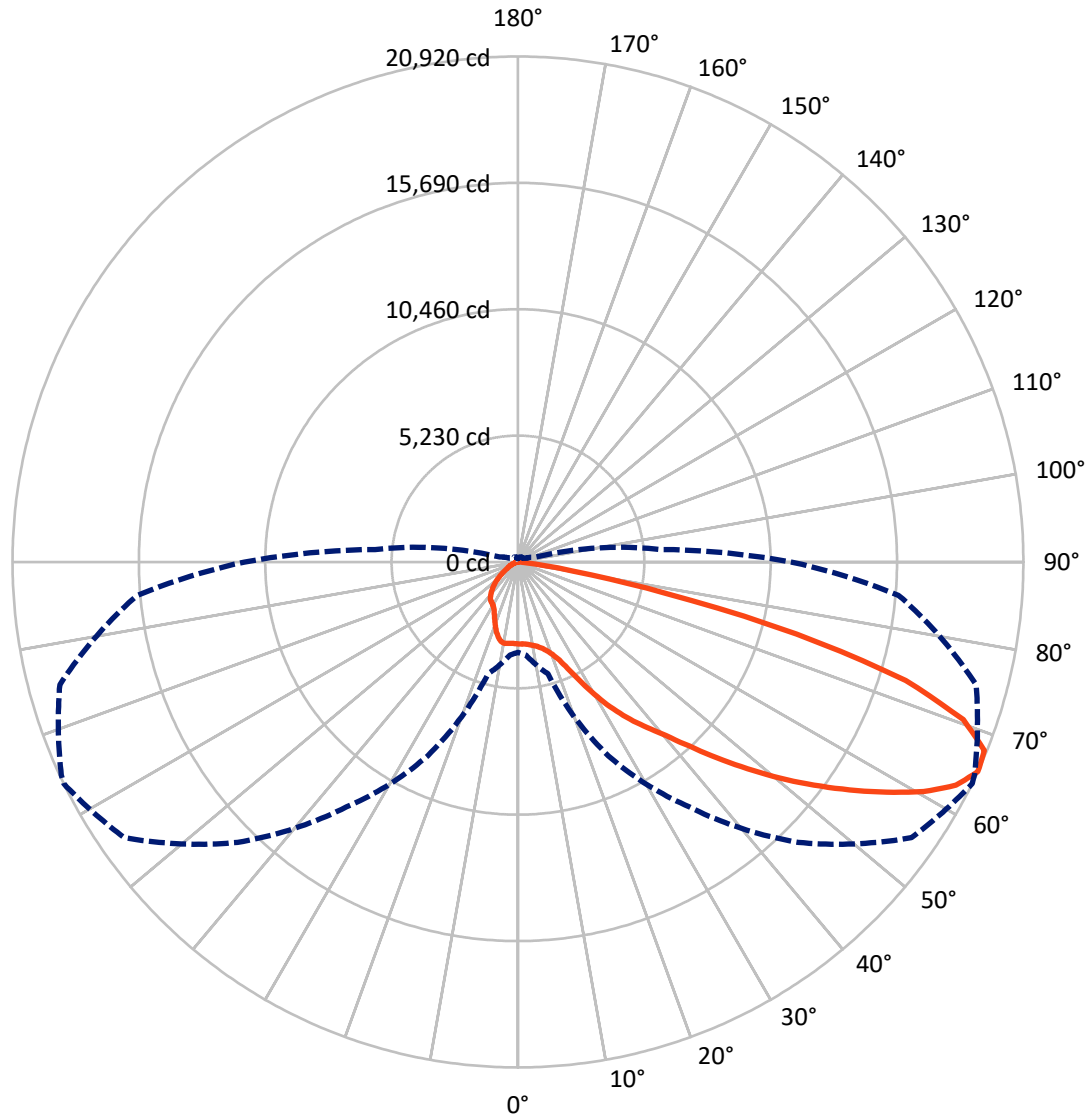
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3898.1	0.0	3898.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25250.9	0.0	25250.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	29149.0	0.0	29149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.1
10°-20°	848.4	2.9
20°-30°	1607.6	5.5
30°-40°	3253.0	11.2
40°-50°	5541.6	19.0
50°-60°	7536.1	25.9
60°-70°	7076.8	24.3
70°-80°	2835.3	9.7
80°-90°	137.4	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°	29149.0	100.0
0°-180°	29149.0	100.0

Coefficient of Utilization



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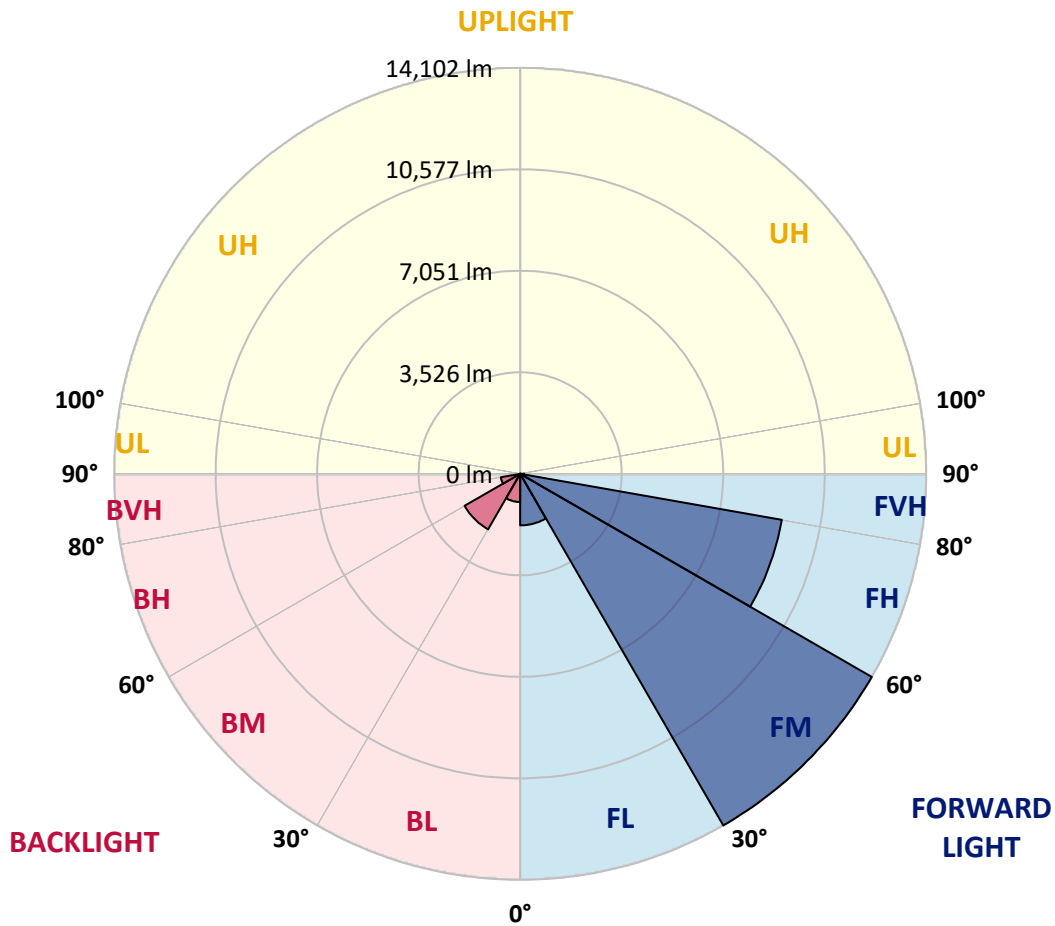
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.1	6.1			
FM (30°-60°)	14102.3	48.4			
FH (60°-80°)	9227.9	31.7			G4/12000
FVH (80°-90°)	130.7	0.4			G2/225
BL (0°-30°)	978.7	3.4	B2/1000		
BM (30°-60°)	2228.5	7.6	B2/2500		
BH (60°-80°)	684.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.7	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3
2.5°	3378.6	3402.1	3396.2	3390.3	3388.4	3392.3	3394.2	3392.3	3392.3	3392.3
5°	3314.1	3333.7	3333.7	3347.3	3366.9	3390.3	3407.9	3411.8	3415.7	3421.6
7.5°	3191.0	3206.6	3218.4	3263.3	3312.2	3374.7	3427.5	3454.8	3458.7	3480.2
10°	3107.0	3126.5	3146.1	3193.0	3263.3	3357.1	3447.0	3513.4	3523.2	3574.0
12.5°	3103.1	3122.6	3148.0	3198.8	3280.9	3380.6	3490.0	3585.7	3603.3	3677.6
15°	3144.1	3167.6	3191.0	3253.5	3341.5	3462.6	3579.9	3699.1	3716.7	3822.2
17.5°	3228.1	3259.4	3277.0	3339.5	3433.3	3568.2	3722.5	3859.3	3874.9	3998.1
20°	3394.2	3431.4	3437.2	3488.0	3579.9	3724.5	3908.2	4078.2	4097.7	4238.4
22.5°	3738.2	3790.9	3744.0	3769.4	3851.5	3996.1	4195.4	4410.4	4437.7	4598.0
25°	4343.9	4418.2	4297.0	4254.0	4289.2	4439.7	4689.8	4961.4	4992.7	5121.6
27.5°	5534.0	5438.2	5254.5	5074.7	4969.2	5055.2	5336.6	5672.7	5711.8	5836.8
30°	6841.2	6757.2	6509.0	6110.4	5860.3	5846.6	6106.5	6481.7	6526.6	6645.8
32.5°	8150.5	8070.4	7800.7	7310.2	6876.4	6661.5	6841.2	7257.5	7280.9	7357.1
35°	9438.2	9356.1	9086.5	8584.3	8050.8	7562.3	7527.1	7996.1	8003.9	8084.0
37.5°	10733.8	10665.4	10378.1	9885.7	9360.1	8685.9	8359.6	8695.7	8705.4	8783.6
40°	11658.1	11687.4	11490.0	11109.0	10657.6	9920.9	9293.6	9440.2	9381.5	9512.5
42.5°	12451.4	12510.0	12338.1	12146.6	11884.7	11236.0	10450.4	10425.0	10331.2	10401.6
45°	13137.3	13186.1	13031.8	12986.8	12981.0	12525.7	11714.7	11562.3	11431.4	11417.7
47.5°	13389.4	13483.2	13549.6	13700.1	13993.2	13801.7	13022.0	12785.6	12639.0	12531.5
50°	13485.1	13584.8	13811.4	14249.2	14942.9	15024.9	14323.4	14057.7	13877.9	13682.5
52.5°	13356.1	13534.0	13838.8	14575.5	15581.8	16005.9	15572.1	15339.5	15134.4	14815.8
55°	12596.0	12773.8	13397.2	14571.6	15900.4	16693.7	16752.3	16648.8	16418.2	15916.0
57.5°	10993.7	11257.5	12244.3	14075.2	15894.5	17285.8	17909.2	17983.4	17725.5	17006.4
60°	8773.8	9131.4	10335.1	12975.1	15404.0	17606.3	18923.3	19294.6	19021.0	18081.1
62.5°	6122.1	6536.4	7675.6	11251.6	14282.4	17375.7	19663.9	20349.8	20142.7	19042.5
65°	3734.2	3867.1	4785.5	8853.9	12375.2	16410.4	19892.5	20920.4	20852.0	19630.7
67.5°	2487.5	2598.9	2862.7	6071.3	9606.3	14481.7	19345.4	20820.7	20840.3	19535.0
70°	1498.8	1594.5	1766.5	3531.0	6225.7	11462.6	17651.2	19550.6	19663.9	18255.0
72.5°	617.5	682.0	838.3	1600.4	3224.2	7275.0	14055.7	16785.6	17049.4	15349.3
75°	349.8	383.0	492.4	803.1	1399.1	3390.3	8513.9	11916.0	12304.9	10579.4
77.5°	232.5	248.2	318.5	519.8	787.5	1156.8	3638.5	6208.1	6950.7	5778.2
80°	156.3	170.0	218.9	347.8	512.0	496.3	1158.8	2300.0	2829.5	1985.3
82.5°	105.5	107.5	156.3	228.6	324.4	240.4	342.0	715.2	898.9	574.5
85°	60.6	58.6	115.3	132.9	144.6	99.7	103.6	214.9	281.4	242.3
87.5°	7.8	11.7	44.9	35.2	19.5	21.5	21.5	37.1	54.7	58.6
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°
3390.3	0°	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3	3390.3
3394.2	2.5°	3394.2	3392.3	3386.4	3380.6	3366.9	3359.1	3363.0	3359.1	3357.1	3359.1
3419.6	5°	3419.6	3413.8	3398.1	3378.6	3351.2	3318.0	3296.5	3265.3	3236.0	3218.4
3488.0	7.5°	3488.0	3482.2	3460.7	3406.0	3318.0	3179.3	3052.3	2940.9	2856.9	2808.0
3597.5	10°	3597.5	3587.7	3554.5	3433.3	3202.7	2899.9	2647.8	2438.7	2301.9	2237.4
3726.4	12.5°	3726.4	3714.7	3656.1	3407.9	2983.9	2511.0	2163.2	1930.6	1803.6	1746.9
3874.9	15°	3878.9	3863.2	3747.9	3286.8	2665.4	2081.1	1762.6	1588.7	1506.6	1455.8
4064.5	17.5°	4068.4	4041.0	3816.3	3105.0	2319.5	1752.8	1516.4	1385.4	1313.1	1264.3
4312.7	20°	4314.6	4269.7	3871.0	2888.1	2001.0	1545.7	1350.3	1240.8	1186.1	1143.1
4664.4	22.5°	4658.5	4594.0	3937.5	2653.6	1776.3	1403.0	1227.2	1147.0	1102.1	1053.2
5154.9	25°	5084.5	5008.3	4019.5	2436.7	1621.9	1279.9	1137.3	1070.8	1018.1	961.4
5797.8	27.5°	5680.5	5543.7	4117.2	2258.9	1489.0	1174.4	1055.2	980.9	920.4	873.5
6526.6	30°	6344.9	6120.2	4203.2	2151.4	1367.9	1076.7	947.7	873.5	816.8	783.6
7181.2	32.5°	6974.1	6669.3	4259.9	2104.5	1258.4	965.3	830.5	750.4	707.4	697.6
7822.2	35°	7568.2	7165.6	4254.0	2059.6	1160.7	853.9	715.2	633.1	599.9	605.8
8512.0	37.5°	8252.1	7695.2	4213.0	1989.3	1080.6	752.3	615.5	543.2	513.9	515.9
9350.3	40°	9047.4	8306.8	4187.6	1856.4	992.7	658.5	533.5	474.8	453.3	445.5
10233.5	42.5°	9895.5	8898.9	4191.5	1705.9	883.2	574.5	476.8	427.9	408.4	402.5
11216.4	45°	10747.4	9463.6	4197.4	1549.6	768.0	510.0	435.8	394.7	383.0	375.2
12213.0	47.5°	11548.6	9944.3	4087.9	1381.5	654.6	461.2	402.5	375.2	365.4	355.6
13213.5	50°	12295.1	10264.8	3824.1	1186.1	564.7	422.1	377.1	357.6	347.8	338.1
14120.2	52.5°	12875.4	10315.6	3388.4	984.9	502.2	392.8	361.5	343.9	332.2	322.4
14853.0	55°	13133.4	9997.1	2768.9	797.3	453.3	367.4	345.9	328.3	314.6	304.8
15429.4	57.5°	13066.9	9326.8	2159.3	640.9	406.4	342.0	326.3	314.6	299.0	283.3
15896.5	60°	12740.6	8429.9	1627.7	533.5	363.5	314.6	304.8	295.1	273.6	250.1
16076.2	62.5°	12175.9	7302.4	1160.7	441.6	316.6	283.3	279.4	271.6	240.4	197.4
15810.5	65°	11312.2	5932.6	781.6	367.4	271.6	248.2	250.1	236.4	195.4	146.6
14837.3	67.5°	10049.8	4338.1	500.2	300.9	226.7	207.1	209.1	201.3	166.1	125.1
12992.7	70°	8441.6	2872.5	326.3	228.6	181.7	160.2	172.0	173.9	140.7	101.6
9971.7	72.5°	6188.6	1696.1	228.6	170.0	132.9	111.4	140.7	144.6	113.3	76.2
5999.0	75°	3527.1	805.1	172.0	123.1	82.1	78.2	109.4	109.4	78.2	50.8
2597.0	77.5°	1481.2	336.1	121.2	80.1	46.9	44.9	74.3	68.4	39.1	23.4
633.1	80°	427.9	150.5	64.5	39.1	19.5	17.6	29.3	21.5	9.8	3.9
240.4	82.5°	168.1	66.4	25.4	15.6	7.8	7.8	3.9	0.0	0.0	0.0
136.8	85°	99.7	27.4	11.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0
29.3	87.5°	25.4	5.9	3.9	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>
3390.3
3366.9
3222.3
2810.0
2231.6
1741.1
1457.7
1260.4
1135.3
1045.4
955.5
863.7
777.7
703.5
605.8
523.7
443.6
400.6
375.2
355.6
338.1
320.5
302.9
281.4
246.2
193.5
142.6
119.2
97.7
72.3
46.9
23.4
3.9
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