

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: P942096

Luminaire Tested: **GALN-SB5D-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942096
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-SB5D-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA 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: 29213 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

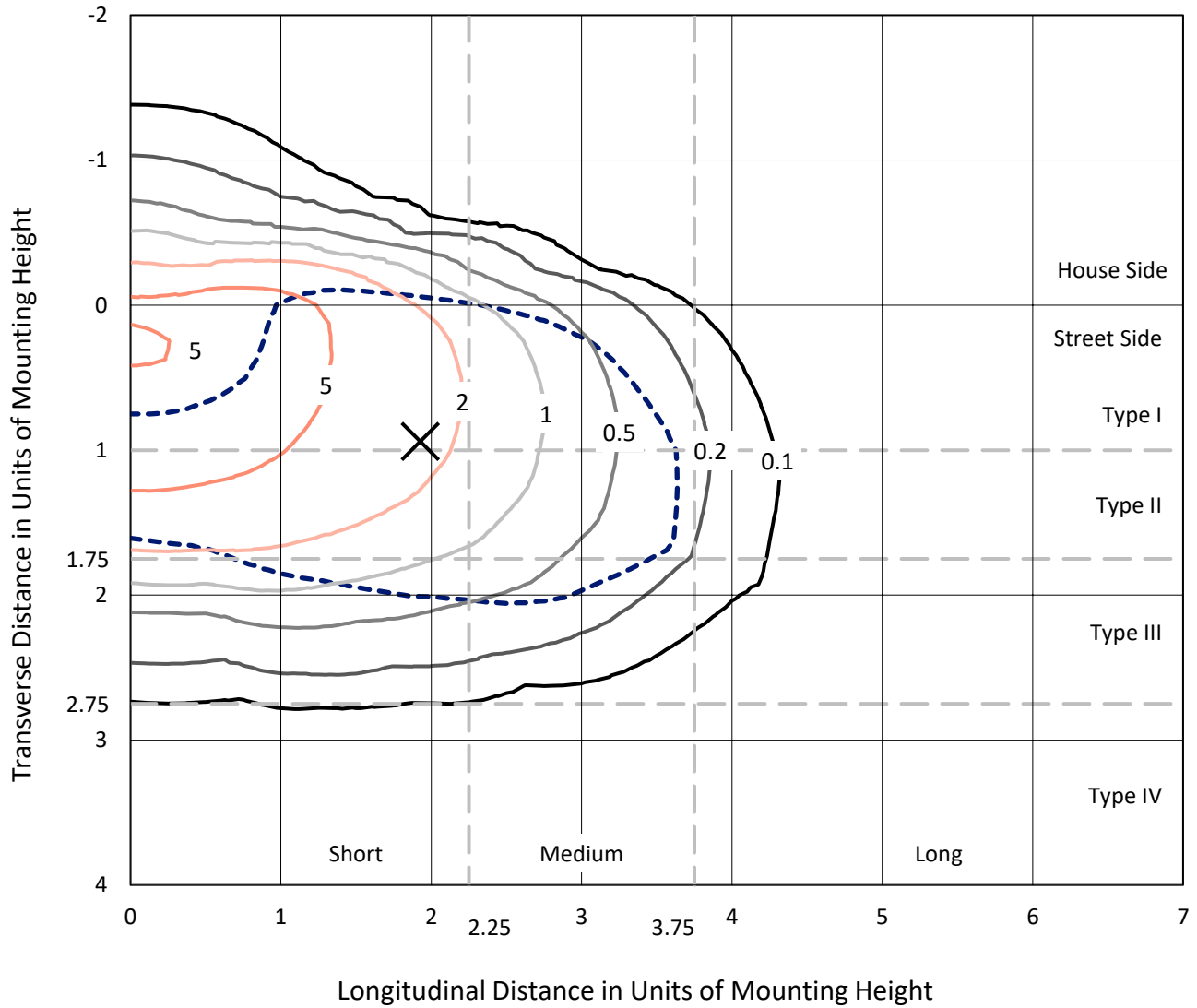
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

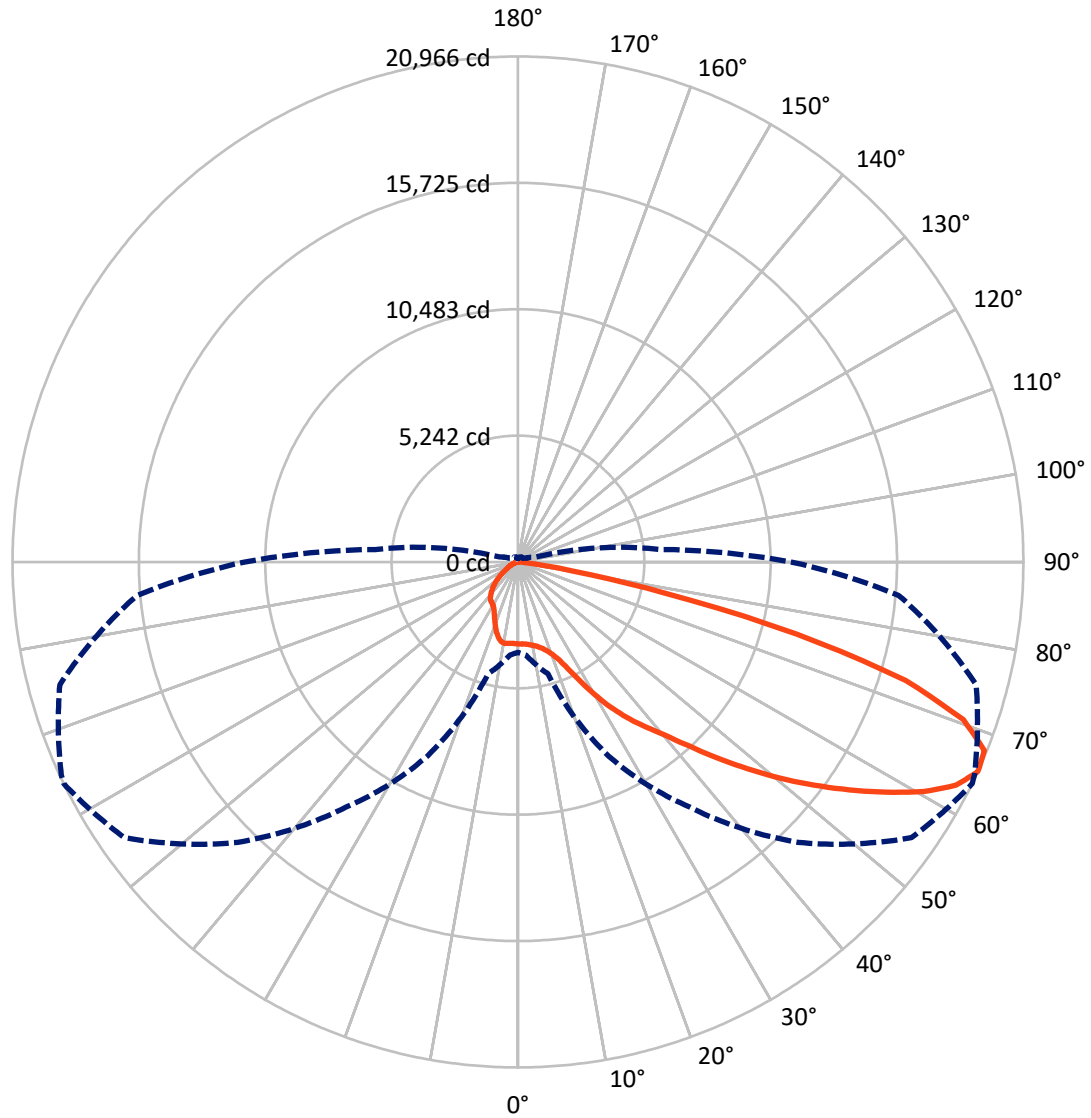
✕ Max cd
 - - - 1/2 Max cd



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	3906.7	0.0	3906.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25306.3	0.0	25306.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	29213.0	0.0	29213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	1.1
10°-20°	850.2	2.9
20°-30°	1611.1	5.5
30°-40°	3260.2	11.2
40°-50°	5553.8	19.0
50°-60°	7552.7	25.9
60°-70°	7092.3	24.3
70°-80°	2841.5	9.7
80°-90°	137.7	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°	29213.0	100.0
0°-180°	29213.0	100.0

Coefficient of Utilization



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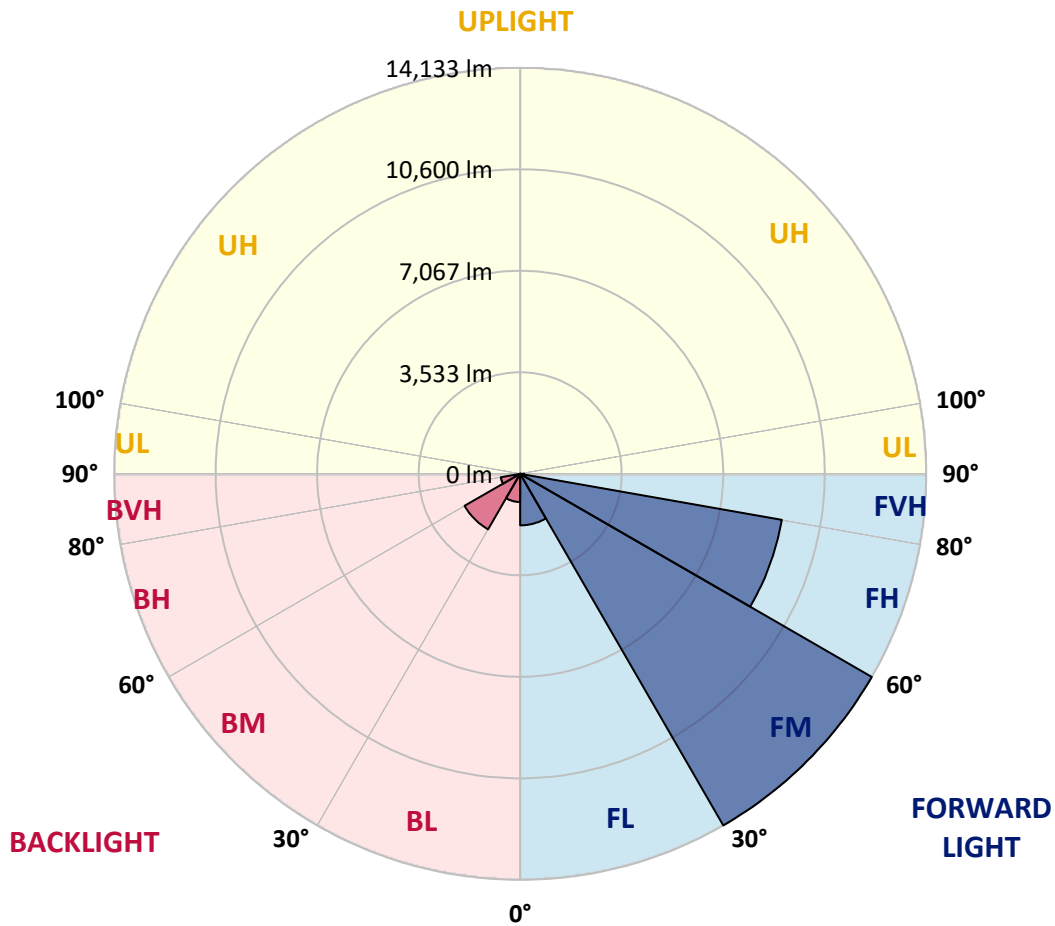
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.0	6.1			
FM (30°-60°)	14133.2	48.4			
FH (60°-80°)	9248.2	31.7			G4/12000
FVH (80°-90°)	130.9	0.4			G2/225
BL (0°-30°)	980.8	3.4	B2/1000		
BM (30°-60°)	2233.4	7.6	B2/2500		
BH (60°-80°)	685.7	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°	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8
2.5°	3386.0	3409.5	3403.7	3397.8	3395.8	3399.7	3401.7	3399.7	3399.7	3399.7
5°	3321.4	3341.0	3341.0	3354.7	3374.3	3397.8	3415.4	3419.3	3423.2	3429.1
7.5°	3198.0	3213.7	3225.4	3270.5	3319.4	3382.1	3435.0	3462.4	3466.3	3487.9
10°	3113.8	3133.4	3153.0	3200.0	3270.5	3364.5	3454.6	3521.2	3530.9	3581.9
12.5°	3109.9	3129.5	3154.9	3205.9	3288.1	3388.0	3497.7	3593.6	3611.2	3685.7
15°	3151.0	3174.5	3198.0	3260.7	3348.8	3470.2	3587.7	3707.2	3724.8	3830.6
17.5°	3235.2	3266.6	3284.2	3346.9	3440.9	3576.0	3730.7	3867.8	3883.5	4006.8
20°	3401.7	3438.9	3444.8	3495.7	3587.7	3732.7	3916.7	4087.1	4106.7	4247.7
22.5°	3746.4	3799.2	3752.2	3777.7	3860.0	4004.9	4204.6	4420.0	4447.5	4608.0
25°	4353.5	4427.9	4306.5	4263.4	4298.6	4449.4	4700.1	4972.3	5003.6	5132.9
27.5°	5546.1	5450.1	5266.1	5085.9	4980.1	5066.3	5348.3	5685.2	5724.3	5849.7
30°	6856.3	6772.1	6523.3	6123.8	5873.2	5859.4	6119.9	6495.9	6541.0	6660.4
32.5°	8168.4	8088.1	7817.8	7326.3	6891.5	6676.1	6856.3	7273.4	7296.9	7373.3
35°	9458.9	9376.7	9106.4	8603.1	8068.5	7578.9	7543.6	8013.7	8021.5	8101.8
37.5°	10757.3	10688.8	10400.9	9907.4	9380.6	8705.0	8377.9	8714.8	8724.5	8802.9
40°	11683.6	11713.0	11515.2	11133.3	10681.0	9942.7	9314.0	9460.9	9402.1	9533.4
42.5°	12478.7	12537.5	12365.2	12173.2	11910.8	11260.6	10473.4	10447.9	10353.9	10424.4
45°	13166.1	13215.1	13060.4	13015.3	13009.5	12553.2	11740.4	11587.7	11456.5	11442.8
47.5°	13418.8	13512.8	13579.4	13730.1	14023.9	13832.0	13050.6	12813.6	12666.7	12559.0
50°	13514.7	13614.6	13841.8	14280.4	14975.7	15057.9	14354.9	14088.5	13908.4	13712.5
52.5°	13385.5	13563.7	13869.2	14607.5	15616.1	16041.0	15606.3	15373.2	15167.6	14848.4
55°	12623.7	12801.9	13426.6	14603.6	15935.3	16730.4	16789.1	16685.3	16454.2	15950.9
57.5°	11017.8	11282.2	12271.2	14106.2	15929.4	17323.8	17948.5	18022.9	17764.4	17043.7
60°	8793.1	9151.5	10357.8	13003.6	15437.8	17644.9	18964.9	19337.0	19062.8	18120.8
62.5°	6135.6	6550.8	7692.5	11276.3	14313.7	17413.8	19707.1	20394.5	20186.9	19084.3
65°	3742.4	3875.6	4796.1	8873.4	12402.4	16446.4	19936.2	20966.3	20897.8	19673.8
67.5°	2493.0	2604.6	2869.0	6084.7	9627.4	14513.5	19387.9	20866.5	20886.0	19577.8
70°	1502.1	1598.0	1770.4	3538.8	6239.4	11487.8	17690.0	19593.5	19707.1	18295.1
72.5°	618.8	683.5	840.1	1603.9	3231.3	7291.0	14086.6	16822.4	17086.8	15383.0
75°	350.5	383.8	493.5	804.9	1402.2	3397.8	8532.6	11942.2	12331.9	10602.6
77.5°	233.0	248.7	319.2	520.9	789.2	1159.4	3646.5	6221.7	6965.9	5790.9
80°	156.7	170.4	219.3	348.6	513.1	497.4	1161.3	2305.0	2835.7	1989.7
82.5°	105.8	107.7	156.7	229.1	325.1	240.9	342.7	716.8	900.9	575.8
85°	60.7	58.8	115.5	133.2	144.9	99.9	103.8	215.4	282.0	242.8
87.5°	7.8	11.8	45.0	35.3	19.6	21.5	21.5	37.2	54.8	58.8
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°
3397.8	0°	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8	3397.8
3401.7	2.5°	3401.7	3399.7	3393.9	3388.0	3374.3	3366.4	3370.4	3366.4	3364.5	3366.4
3427.2	5°	3427.2	3421.3	3405.6	3386.0	3358.6	3325.3	3303.8	3272.4	3243.1	3225.4
3495.7	7.5°	3495.7	3489.8	3468.3	3413.4	3325.3	3186.3	3059.0	2947.3	2863.1	2814.2
3605.4	10°	3605.4	3595.6	3562.3	3440.9	3209.8	2906.2	2653.6	2444.0	2307.0	2242.3
3734.6	12.5°	3734.6	3722.9	3664.1	3415.4	2990.4	2516.5	2167.9	1934.9	1807.6	1750.8
3883.5	15°	3887.4	3871.7	3756.2	3294.0	2671.2	2085.7	1766.5	1592.2	1509.9	1459.0
4073.4	17.5°	4077.3	4049.9	3824.7	3111.9	2324.6	1756.7	1519.7	1388.5	1316.0	1267.1
4322.1	20°	4324.1	4279.0	3879.5	2894.5	2005.4	1549.1	1353.2	1243.6	1188.7	1145.6
4674.6	22.5°	4668.8	4604.1	3946.1	2659.5	1780.2	1406.1	1229.9	1149.6	1104.5	1055.6
5166.2	25°	5095.7	5019.3	4028.4	2442.1	1625.4	1282.7	1139.8	1073.2	1020.3	963.5
5810.5	27.5°	5693.0	5555.9	4126.3	2263.9	1492.3	1177.0	1057.5	983.1	922.4	875.4
6541.0	30°	6358.8	6133.6	4212.5	2156.2	1370.9	1079.1	949.8	875.4	818.6	785.3
7197.0	32.5°	6989.4	6683.9	4269.3	2109.2	1261.2	967.4	832.3	752.0	708.9	699.1
7839.4	35°	7584.8	7181.3	4263.4	2064.1	1163.3	855.8	716.8	634.5	601.2	607.1
8530.7	37.5°	8270.2	7712.1	4222.2	1993.6	1083.0	754.0	616.9	544.4	515.1	517.0
9370.8	40°	9067.3	8325.0	4196.8	1860.5	994.9	660.0	534.6	475.9	454.3	446.5
10256.0	42.5°	9917.2	8918.4	4200.7	1709.7	885.2	575.8	477.8	428.9	409.3	403.4
11241.1	45°	10771.0	9484.4	4206.6	1553.0	769.6	511.1	436.7	395.6	383.8	376.0
12239.8	47.5°	11574.0	9966.2	4096.9	1384.6	656.1	462.2	403.4	376.0	366.2	356.4
13242.5	50°	12322.1	10287.3	3832.5	1188.7	566.0	423.0	378.0	358.4	348.6	338.8
14151.2	52.5°	12903.7	10338.2	3395.8	987.0	503.3	393.6	362.3	344.7	332.9	323.1
14885.6	55°	13162.2	10019.0	2775.0	799.0	454.3	368.2	346.6	329.0	315.3	305.5
15463.3	57.5°	13095.6	9347.3	2164.0	642.3	407.3	342.7	327.0	315.3	299.6	284.0
15931.4	60°	12768.6	8448.4	1631.3	534.6	364.3	315.3	305.5	295.7	274.2	250.7
16111.5	62.5°	12202.6	7318.4	1163.3	442.6	317.3	284.0	280.0	272.2	240.9	197.8
15845.2	65°	11337.0	5945.6	783.3	368.2	272.2	248.7	250.7	237.0	195.8	146.9
14869.9	67.5°	10071.9	4347.6	501.3	301.6	227.2	207.6	209.5	201.7	166.5	125.3
13021.2	70°	8460.2	2878.8	327.0	229.1	182.1	160.6	172.3	174.3	141.0	101.8
9993.6	72.5°	6202.2	1699.9	229.1	170.4	133.2	111.6	141.0	144.9	113.6	76.4
6012.2	75°	3534.9	806.8	172.3	123.4	82.3	78.3	109.7	109.7	78.3	50.9
2602.7	77.5°	1484.4	336.8	121.4	80.3	47.0	45.0	74.4	68.5	39.2	23.5
634.5	80°	428.9	150.8	64.6	39.2	19.6	17.6	29.4	21.5	9.8	3.9
240.9	82.5°	168.4	66.6	25.5	15.7	7.8	7.8	3.9	0.0	0.0	0.0
137.1	85°	99.9	27.4	11.8	5.9	2.0	0.0	0.0	0.0	0.0	0.0
29.4	87.5°	25.5	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>
3397.8
3374.3
3229.4
2816.1
2236.5
1744.9
1460.9
1263.1
1137.8
1047.7
957.6
865.6
779.4
705.0
607.1
524.8
444.6
401.5
376.0
356.4
338.8
321.2
303.5
282.0
246.8
193.9
143.0
119.5
97.9
72.5
47.0
23.5
3.9
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