

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: P942098

Luminaire Tested: **GALN-SB5D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28203 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

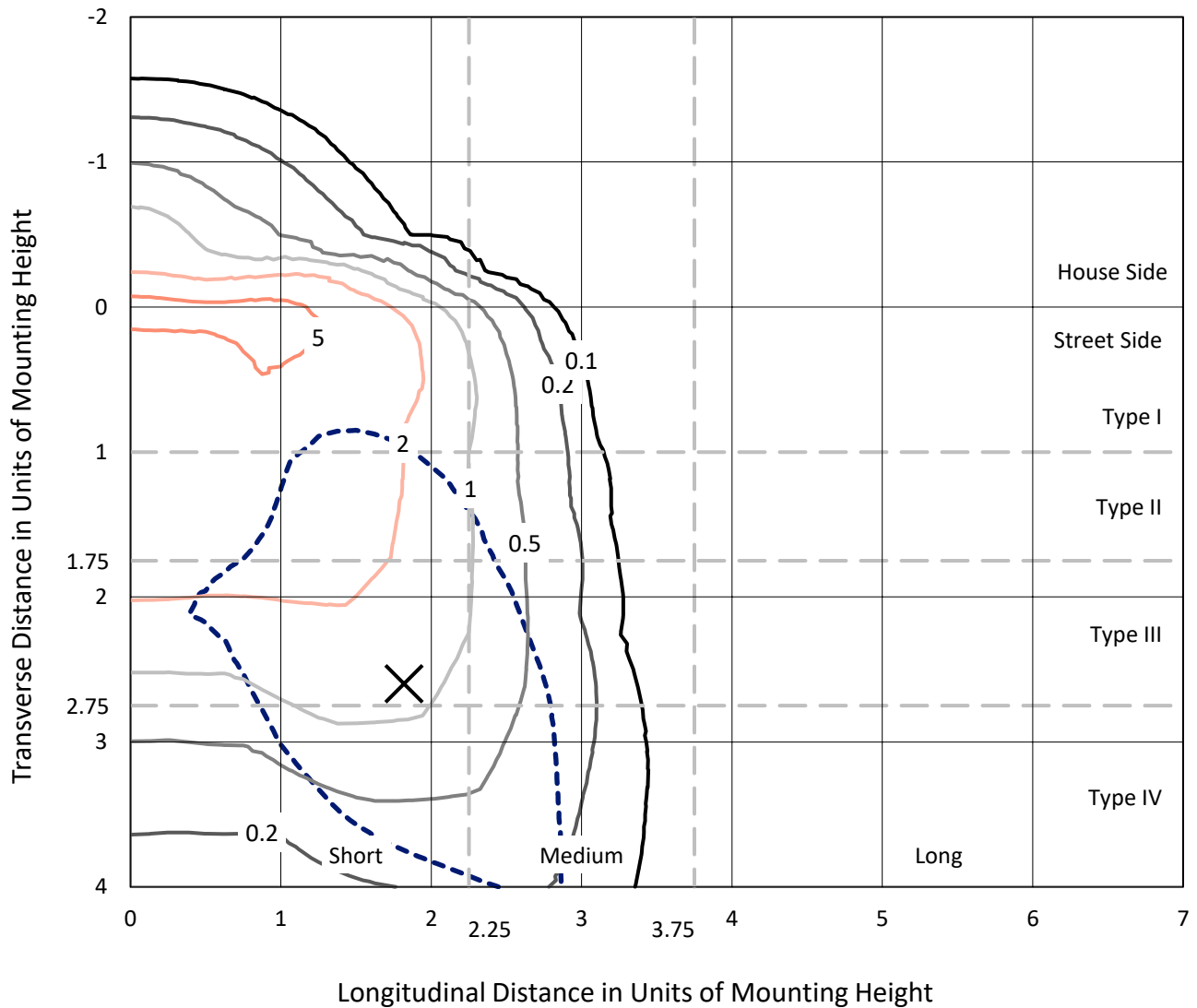
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

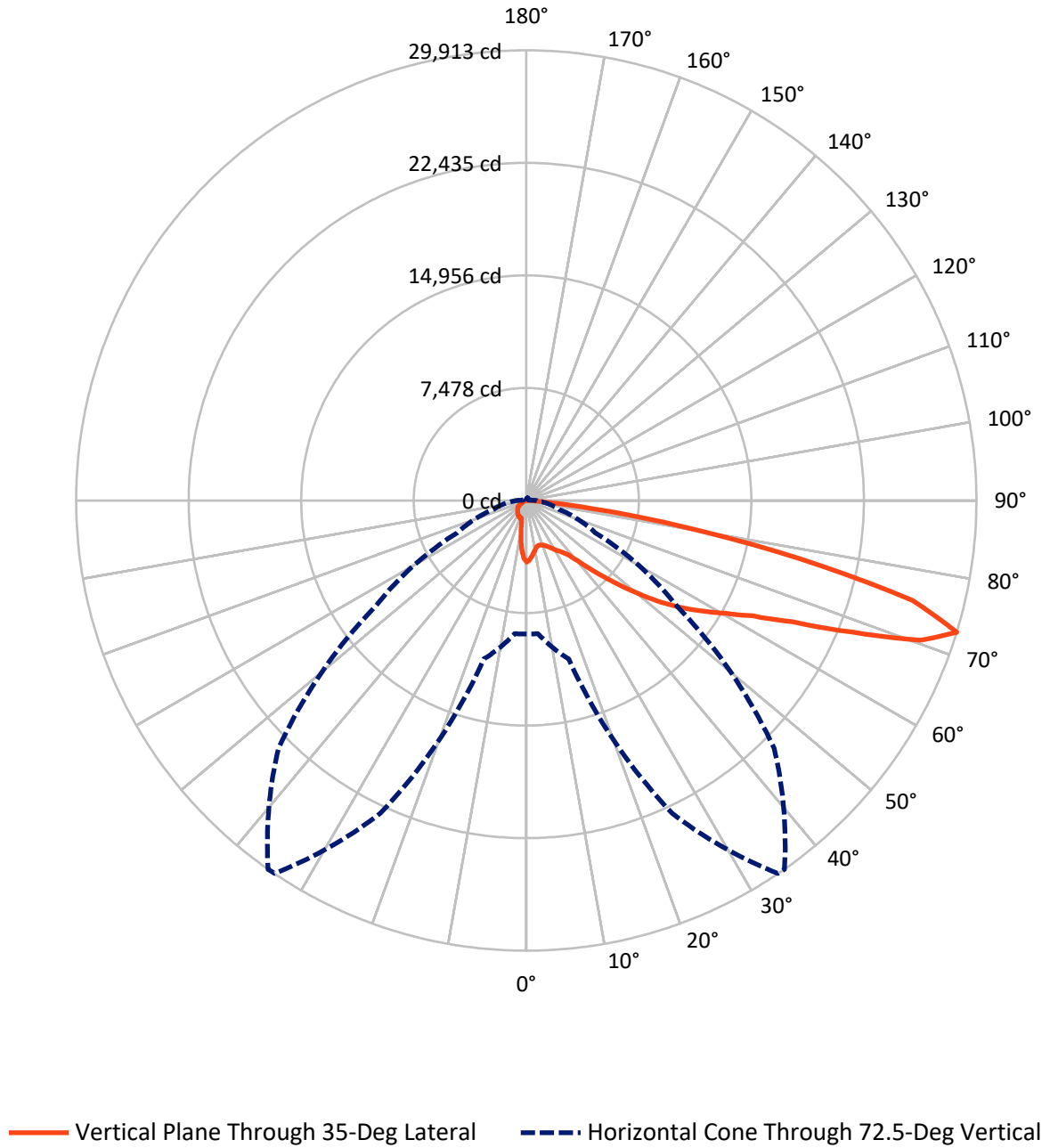
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.1	0.0	3174.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	25028.9	0.0	25028.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	28203.0	0.0	28203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	1.2
10°-20°	785.8	2.8
20°-30°	1276.5	4.5
30°-40°	2129.8	7.6
40°-50°	4029.6	14.3
50°-60°	6403.0	22.7
60°-70°	7920.9	28.1
70°-80°	4923.7	17.5
80°-90°	397.9	1.4
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°	28203.0	100.0
0°-180°	28203.0	100.0

Coefficient of Utilization



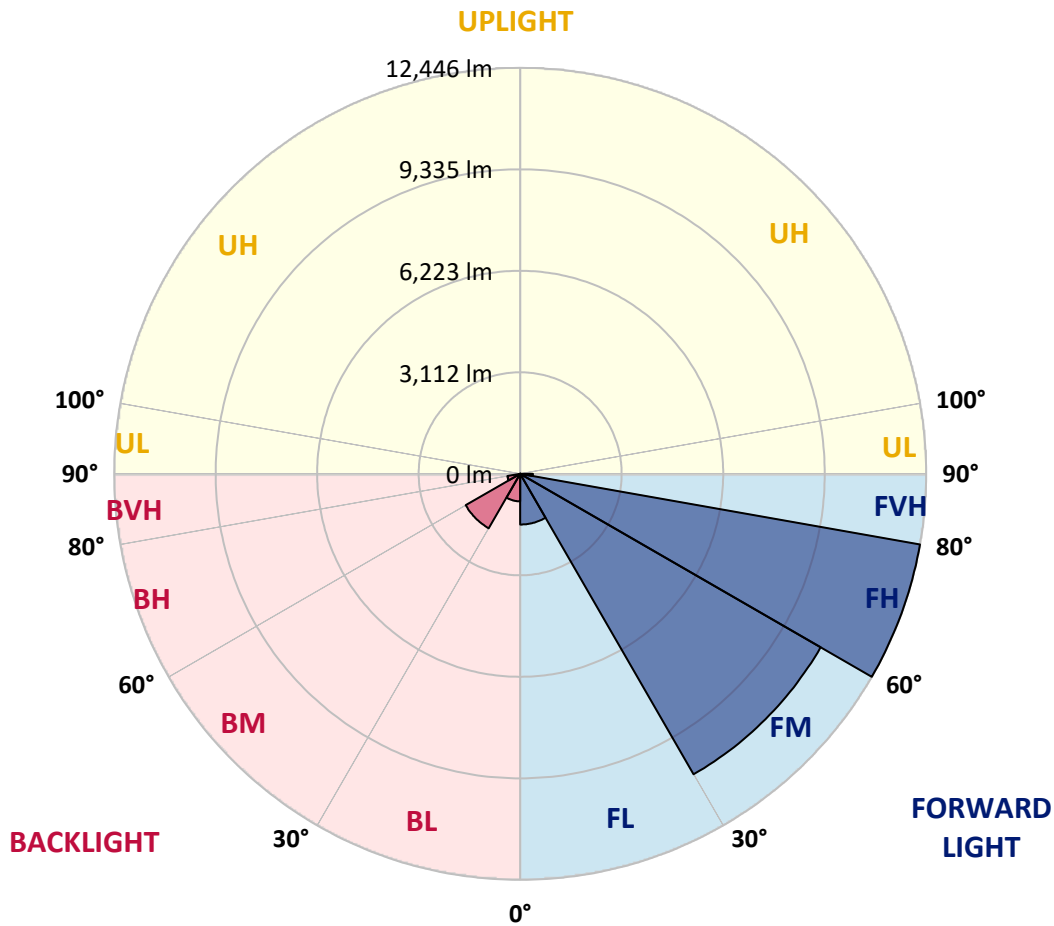
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1554.7	5.5			
FM (30°-60°)	10635.4	37.7			
FH (60°-80°)	12446.3	44.1			G5
FVH (80°-90°)	392.5	1.4			G3/500
BL (0°-30°)	843.4	3.0	B2/1000		
BM (30°-60°)	1927.0	6.8	B2/2500		
BH (60°-80°)	398.3	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6
2.5°	3905.7	3938.8	3945.0	3955.3	3955.3	3967.7	3988.4	4017.3	4064.8	4089.6
5°	3599.9	3624.7	3655.7	3680.5	3728.0	3734.2	3814.8	3893.3	4002.8	4085.5
7.5°	3292.0	3320.9	3362.2	3422.1	3484.1	3502.7	3624.7	3756.9	3930.5	4085.5
10°	3075.0	3077.0	3114.2	3174.2	3273.4	3296.1	3444.9	3632.9	3849.9	4060.7
12.5°	2953.0	2967.5	2984.0	3029.5	3124.6	3139.0	3298.2	3519.3	3769.3	4046.2
15°	2953.0	2963.4	2973.7	2996.4	3072.9	3085.3	3225.8	3446.9	3728.0	4052.4
17.5°	2984.0	3000.6	2992.3	3019.2	3099.8	3108.0	3232.0	3426.3	3725.9	4091.7
20°	3058.4	3070.8	3054.3	3070.8	3151.4	3168.0	3296.1	3465.5	3761.1	4159.9
22.5°	3176.2	3182.4	3143.2	3155.6	3238.2	3258.9	3407.7	3577.1	3845.8	4269.4
25°	3325.0	3337.4	3277.5	3292.0	3370.5	3395.3	3566.8	3744.5	3980.1	4420.3
27.5°	3496.5	3502.7	3451.1	3449.0	3550.3	3585.4	3759.0	3951.2	4159.9	4610.4
30°	3692.9	3711.5	3661.9	3653.6	3781.7	3810.6	3982.2	4205.4	4424.4	4895.6
32.5°	3847.8	3862.3	3833.4	3854.0	3984.2	4007.0	4252.9	4564.9	4839.8	5300.6
35°	4071.0	4079.3	4013.2	4050.4	4199.2	4257.0	4622.8	5069.2	5362.6	5809.0
37.5°	4879.0	4879.0	4598.0	4414.1	4556.7	4608.3	5129.1	5703.6	6007.3	6490.9
40°	5997.0	5978.4	5567.2	5191.1	5172.5	5273.7	5850.3	6503.3	6840.2	7309.3
42.5°	7189.4	7160.5	6600.4	6228.5	6166.5	6201.6	6683.1	7489.0	7832.1	8307.4
45°	8247.4	8239.2	7726.7	7226.6	7115.0	7226.6	7722.6	8642.2	8888.1	9388.2
47.5°	9134.0	9134.0	8759.9	8433.4	8375.6	8441.7	9129.8	9921.3	9898.6	10539.2
50°	10154.8	10146.6	9791.1	9650.6	9710.5	9803.5	10750.0	11268.7	10944.2	11669.6
52.5°	10869.9	10919.4	10797.5	10774.8	11080.6	11241.8	12394.9	12587.1	11880.4	12742.1
55°	11436.1	11493.9	11634.5	11793.6	12382.5	12593.3	13988.2	13837.4	12663.6	13672.0
57.5°	12237.9	12155.2	12372.2	12686.3	13639.0	13893.2	15531.9	15017.3	13293.9	14426.3
60°	13211.2	13223.6	13260.8	13657.6	14893.4	15219.9	17052.9	16133.3	13698.9	14889.2
62.5°	14380.9	14399.5	14475.9	15085.5	16577.6	16885.5	18673.0	17046.7	13884.9	14759.0
65°	14300.3	14378.8	15232.3	17317.4	19138.0	19441.7	20563.9	17687.3	13603.8	13568.7
67.5°	13027.3	13155.4	14583.4	19983.2	22998.2	23337.1	22849.4	17813.3	12390.8	10551.6
70°	11357.5	11403.0	13120.3	22380.3	27468.1	27811.1	24895.3	16426.7	9402.6	5885.4
72.5°	8869.5	8879.8	10894.7	22936.2	29894.2	29912.8	23289.6	12194.5	5056.8	2260.8
75°	6335.9	6273.9	7296.9	18600.7	26300.5	26511.3	17460.0	5720.1	1932.2	1068.4
77.5°	3397.3	3465.5	4128.9	11031.0	18168.8	18528.3	9526.6	1649.1	983.7	727.4
80°	1049.8	1107.7	1692.5	5050.6	10291.2	10508.2	3531.7	733.6	686.1	518.7
82.5°	330.6	343.0	789.4	2122.3	4271.5	4370.7	1022.9	415.4	469.1	343.0
85°	95.1	97.1	351.3	791.5	1056.0	1076.7	287.2	161.2	268.6	212.9
87.5°	10.3	33.1	132.3	132.3	93.0	90.9	31.0	35.1	76.5	26.9
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°
4087.6	0°	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6	4087.6
4106.2	2.5°	4095.8	4097.9	4071.0	4025.6	3976.0	3934.6	3883.0	3841.6	3812.7	3804.4
4143.4	5°	4124.8	4110.3	4033.8	3895.4	3730.1	3587.5	3428.3	3302.3	3219.6	3184.5
4182.6	7.5°	4168.2	4126.8	3959.4	3686.7	3370.5	3089.4	2804.3	2583.1	2442.6	2372.4
4219.8	10°	4205.4	4122.7	3835.4	3384.9	2901.4	2475.7	2091.3	1824.7	1675.9	1605.7
4263.2	12.5°	4240.5	4120.6	3674.3	3027.4	2372.4	1851.6	1494.1	1361.8	1320.5	1306.0
4333.5	15°	4306.6	4126.8	3471.7	2618.3	1845.4	1399.0	1268.8	1266.8	1275.0	1270.9
4440.9	17.5°	4397.5	4133.0	3242.4	2184.3	1423.8	1233.7	1227.5	1246.1	1258.5	1252.3
4575.3	20°	4515.3	4157.8	2998.5	1754.5	1223.4	1192.4	1206.8	1223.4	1233.7	1223.4
4755.0	22.5°	4680.6	4201.2	2731.9	1409.4	1159.3	1167.6	1180.0	1198.6	1208.9	1194.4
4984.4	25°	4883.2	4269.4	2469.5	1225.4	1128.3	1138.6	1157.2	1177.9	1190.3	1175.8
5273.7	27.5°	5145.6	4378.9	2227.7	1184.1	1097.3	1103.5	1130.4	1161.4	1177.9	1159.3
5685.0	30°	5525.9	4558.7	2019.0	1202.7	1078.7	1064.3	1101.5	1144.8	1163.4	1146.9
6245.0	32.5°	6030.1	4812.9	1890.9	1231.6	1070.5	1018.8	1053.9	1109.7	1140.7	1130.4
6976.5	35°	6691.4	5199.3	1841.3	1264.7	1064.3	971.3	996.1	1056.0	1109.7	1120.0
7898.2	37.5°	7493.2	5736.6	1855.7	1279.2	1045.7	932.0	944.4	996.1	1066.3	1099.4
8935.6	40°	8404.5	6362.8	1938.4	1264.7	1025.0	898.9	901.0	940.3	1002.3	1051.9
10051.5	42.5°	9344.8	7094.3	2091.3	1211.0	1006.4	870.0	863.8	890.7	932.0	967.1
11165.4	45°	10239.6	7846.5	2242.2	1136.6	983.7	841.1	826.6	836.9	845.2	859.7
12250.3	47.5°	11020.7	8375.6	2198.8	1068.4	952.7	808.0	783.2	779.1	754.3	752.2
13219.5	50°	11560.1	8491.3	1952.9	1000.2	907.2	770.8	731.5	706.7	663.4	642.7
13944.8	52.5°	11731.6	8034.6	1595.3	932.0	832.8	721.2	665.4	626.2	572.4	553.8
14362.3	55°	11504.3	7139.8	1275.0	849.3	729.5	655.1	593.1	541.4	498.0	475.3
14407.7	57.5°	10948.4	6001.2	1008.5	752.2	620.0	580.7	518.7	467.0	429.8	407.1
13903.5	60°	10026.7	4765.4	797.7	636.5	529.0	500.1	436.0	403.0	369.9	343.0
12601.6	62.5°	8627.7	3401.5	626.2	504.2	442.2	409.2	372.0	347.2	307.9	270.7
10260.2	65°	6732.7	2081.0	483.6	369.9	355.4	338.9	316.2	293.4	245.9	208.7
6693.4	67.5°	4246.7	985.7	345.1	279.0	281.0	272.8	262.4	243.8	208.7	175.7
2998.5	70°	1870.2	477.4	227.3	212.9	208.7	208.7	217.0	210.8	177.7	146.7
1041.5	72.5°	636.5	256.2	169.5	161.2	150.9	148.8	181.9	175.7	142.6	113.7
518.7	75°	332.7	171.5	124.0	115.7	90.9	109.5	144.7	136.4	101.3	74.4
343.0	77.5°	217.0	121.9	84.7	74.4	51.7	72.3	107.5	95.1	59.9	37.2
225.2	80°	136.4	80.6	49.6	35.1	24.8	39.3	57.9	41.3	22.7	8.3
132.3	82.5°	72.3	41.3	18.6	12.4	10.3	12.4	14.5	10.3	4.1	0.0
68.2	85°	28.9	14.5	6.2	4.1	2.1	0.0	4.1	2.1	0.0	0.0
12.4	87.5°	10.3	2.1	0.0	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>
4087.6
3818.9
3196.9
2382.7
1607.7
1301.9
1268.8
1250.2
1221.3
1192.4
1173.8
1159.3
1144.8
1130.4
1120.0
1107.7
1068.4
981.6
867.9
750.1
644.8
551.8
475.3
403.0
336.8
264.5
202.5
171.5
140.5
107.5
68.2
33.1
6.2
0.0
0.0
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