

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: P944228

Luminaire Tested: **GALN-SB9A-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944228
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-SB9A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA 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: 26900 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

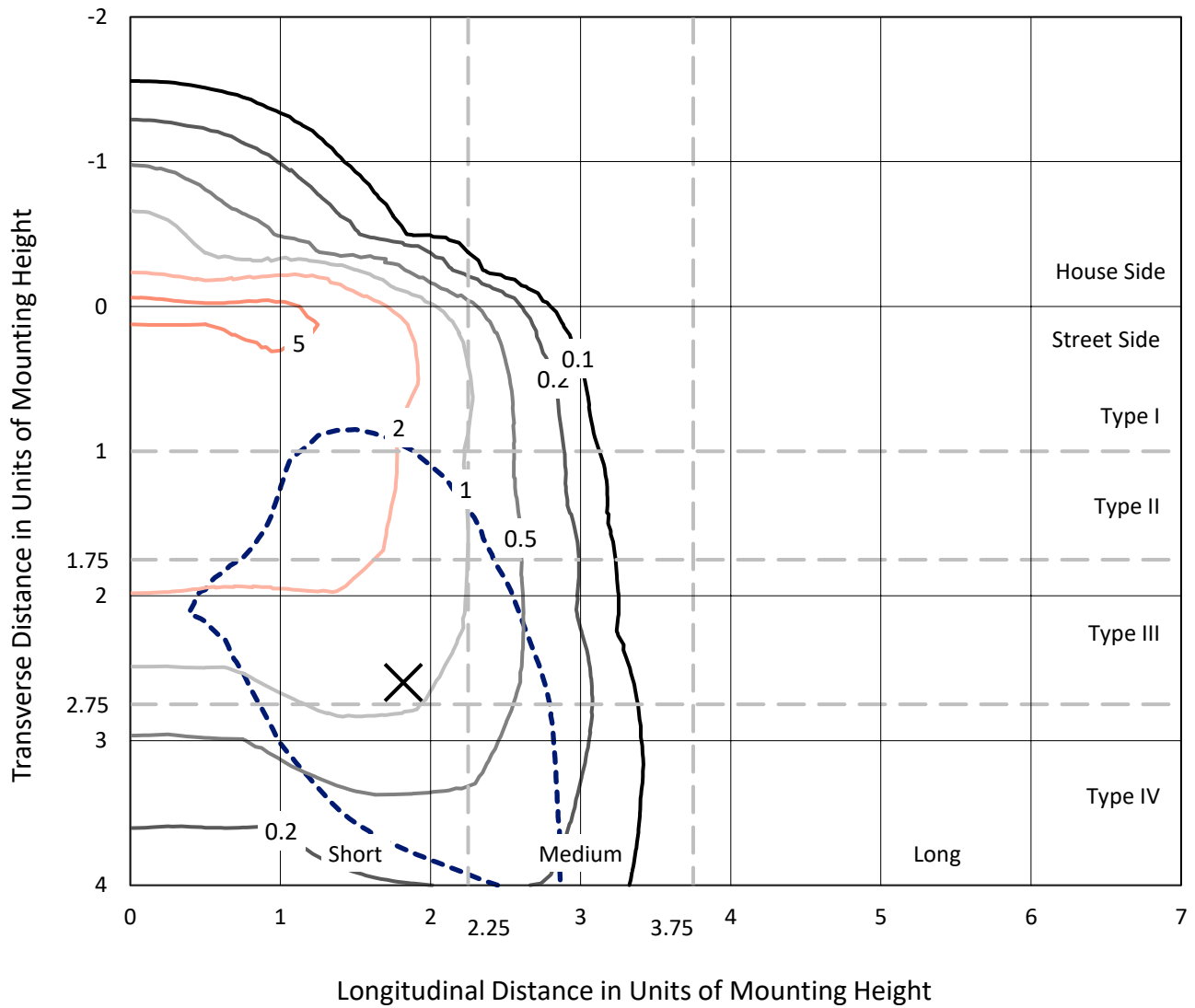
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

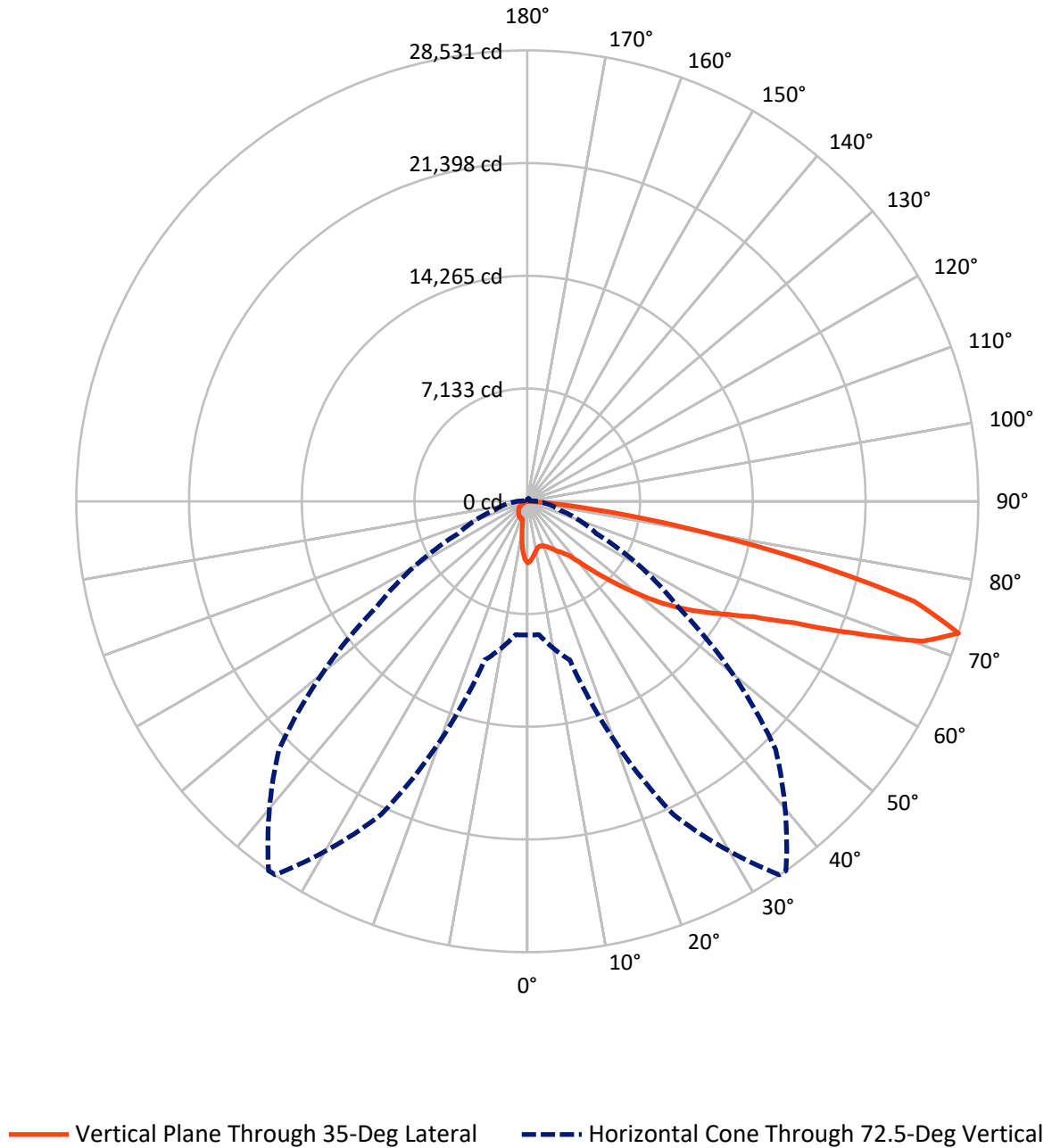
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	3027.5	0.0	3027.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23872.5	0.0	23872.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	26900.0	0.0	26900.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.2
10°-20°	749.5	2.8
20°-30°	1217.5	4.5
30°-40°	2031.4	7.6
40°-50°	3843.4	14.3
50°-60°	6107.2	22.7
60°-70°	7555.0	28.1
70°-80°	4696.2	17.5
80°-90°	379.5	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°	26900.0	100.0
0°-180°	26900.0	100.0



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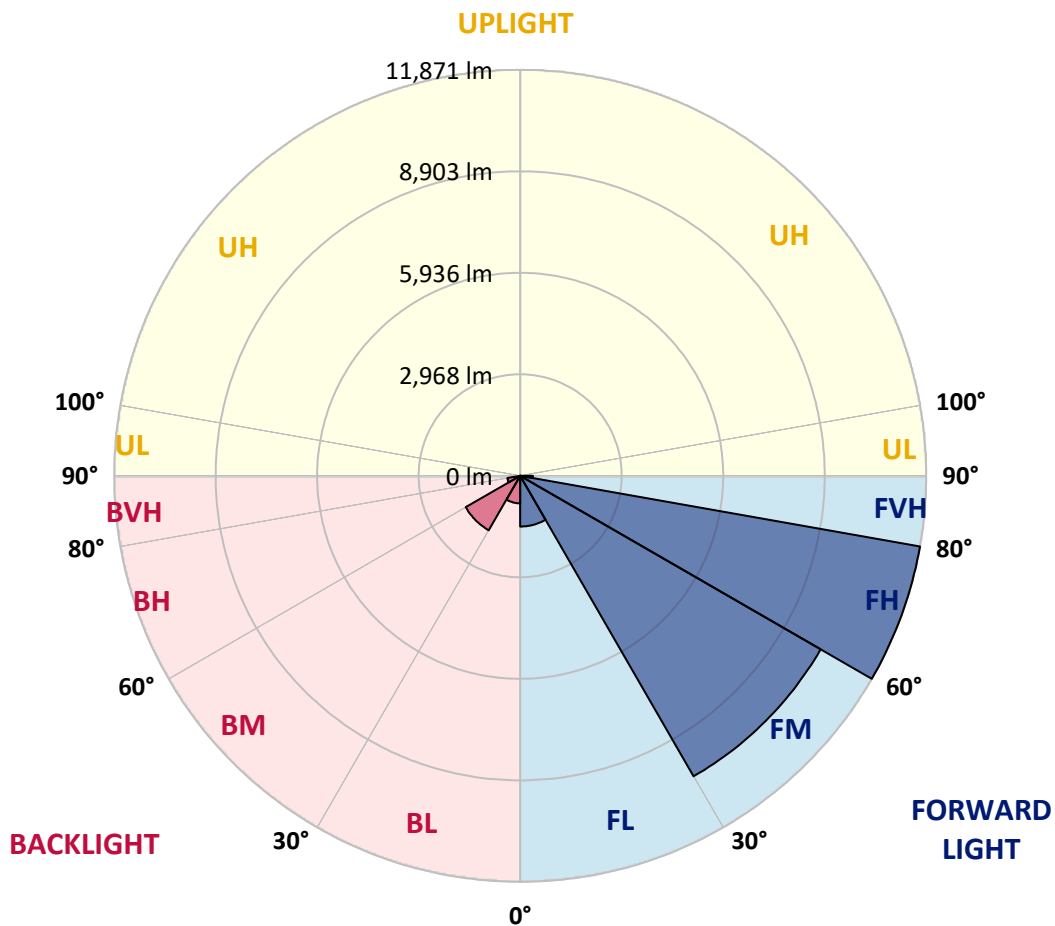
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.9	5.5			
FM (30°-60°)	10144.0	37.7			
FH (60°-80°)	11871.3	44.1			G4/12000
FVH (80°-90°)	374.4	1.4			G3/500
BL (0°-30°)	804.5	3.0	B2/1000		
BM (30°-60°)	1837.9	6.8	B2/2500		
BH (60°-80°)	379.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7
2.5°	3725.3	3756.8	3762.7	3772.6	3772.6	3784.4	3804.1	3831.7	3877.0	3900.7
5°	3433.5	3457.2	3486.8	3510.4	3555.8	3561.7	3638.5	3713.4	3817.9	3896.7
7.5°	3139.9	3167.5	3206.9	3264.0	3323.2	3340.9	3457.2	3583.3	3748.9	3896.7
10°	2932.9	2934.9	2970.4	3027.5	3122.1	3143.8	3285.7	3465.1	3672.0	3873.1
12.5°	2816.6	2830.4	2846.2	2889.5	2980.2	2994.0	3145.8	3356.7	3595.2	3859.3
15°	2816.6	2826.5	2836.3	2858.0	2930.9	2942.8	3076.8	3287.7	3555.8	3865.2
17.5°	2846.2	2861.9	2854.1	2879.7	2956.6	2964.4	3082.7	3268.0	3553.8	3902.7
20°	2917.1	2929.0	2913.2	2929.0	3005.8	3021.6	3143.8	3305.4	3587.3	3967.7
22.5°	3029.5	3035.4	2997.9	3009.8	3088.6	3108.3	3250.2	3411.9	3668.1	4072.2
25°	3171.4	3183.2	3126.1	3139.9	3214.8	3238.4	3402.0	3571.5	3796.2	4216.0
27.5°	3335.0	3340.9	3291.6	3289.7	3386.2	3419.7	3585.3	3768.6	3967.7	4397.4
30°	3522.2	3540.0	3492.7	3484.8	3607.0	3634.6	3798.2	4011.1	4220.0	4669.4
32.5°	3670.1	3683.9	3656.3	3676.0	3800.2	3821.8	4056.4	4354.0	4616.2	5055.7
35°	3882.9	3890.8	3827.8	3863.2	4005.1	4060.3	4409.2	4835.0	5114.8	5540.6
37.5°	4653.6	4653.6	4385.6	4210.1	4346.1	4395.4	4892.1	5440.1	5729.8	6191.0
40°	5720.0	5702.2	5310.0	4951.2	4933.5	5030.1	5580.0	6202.9	6524.1	6971.6
42.5°	6857.2	6829.6	6295.5	5940.7	5881.6	5915.1	6374.3	7143.0	7470.2	7923.6
45°	7866.4	7858.5	7369.7	6892.7	6786.3	6892.7	7365.8	8242.9	8477.4	8954.4
47.5°	8712.0	8712.0	8355.2	8043.8	7988.6	8051.7	8708.0	9463.0	9441.3	10052.3
50°	9685.7	9677.8	9338.8	9204.7	9261.9	9350.6	10253.3	10748.1	10438.6	11130.4
52.5°	10367.7	10415.0	10298.7	10277.0	10568.7	10722.4	11822.3	12005.6	11331.5	12153.4
55°	10907.7	10962.9	11096.9	11248.7	11810.5	12011.5	13342.0	13198.1	12078.5	13040.4
57.5°	11672.5	11593.6	11800.6	12100.2	13008.8	13251.3	14814.3	14323.5	12679.7	13759.8
60°	12600.8	12612.7	12648.1	13026.6	14205.3	14516.7	16265.0	15387.9	13066.0	14201.3
62.5°	13716.4	13734.2	13807.1	14388.6	15811.7	16105.3	17810.3	16259.1	13243.4	14077.1
65°	13639.6	13714.5	14528.5	16517.3	18253.8	18543.5	19613.8	16870.1	12975.3	12941.8
67.5°	12425.4	12547.6	13909.6	19059.9	21935.7	22258.9	21793.8	16990.3	11818.3	10064.1
70°	10832.8	10876.2	12514.1	21346.3	26199.0	26526.2	23745.1	15667.8	8968.2	5613.5
72.5°	8459.7	8469.5	10391.3	21876.5	28513.0	28530.8	22213.6	11631.1	4823.1	2156.3
75°	6043.2	5984.1	6959.7	17741.3	25085.4	25286.4	16653.3	5455.8	1842.9	1019.0
77.5°	3240.4	3305.4	3938.1	10521.4	17329.4	17672.3	9086.5	1572.9	938.2	693.8
80°	1001.3	1056.5	1614.3	4817.2	9815.8	10022.7	3368.5	699.7	654.4	494.7
82.5°	315.4	327.2	752.9	2024.3	4074.1	4168.7	975.7	396.2	447.4	327.2
85°	90.7	92.6	335.1	754.9	1007.2	1026.9	274.0	153.7	256.2	203.0
87.5°	9.9	31.5	126.1	126.1	88.7	86.7	29.6	33.5	72.9	25.6
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°
3898.7	0°	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7	3898.7
3916.5	2.5°	3906.6	3908.6	3882.9	3839.6	3792.3	3752.9	3703.6	3664.2	3636.6	3628.7
3951.9	5°	3934.2	3920.4	3847.5	3715.4	3557.7	3421.7	3270.0	3149.7	3070.9	3037.4
3989.4	7.5°	3975.6	3936.2	3776.5	3516.3	3214.8	2946.7	2674.7	2463.8	2329.8	2262.8
4024.9	10°	4011.1	3932.2	3658.2	3228.6	2767.3	2361.3	1994.7	1740.4	1598.5	1531.5
4066.3	12.5°	4044.6	3930.2	3504.5	2887.6	2262.8	1766.0	1425.1	1298.9	1259.5	1245.7
4133.3	15°	4107.6	3936.2	3311.3	2497.3	1760.1	1334.4	1210.2	1208.2	1216.1	1212.2
4235.8	17.5°	4194.4	3942.1	3092.6	2083.4	1358.0	1176.7	1170.8	1188.5	1200.4	1194.4
4363.9	20°	4306.7	3965.7	2860.0	1673.4	1166.9	1137.3	1151.1	1166.9	1176.7	1166.9
4535.4	22.5°	4464.4	4007.1	2605.7	1344.2	1105.8	1113.6	1125.5	1143.2	1153.1	1139.3
4754.1	25°	4657.6	4072.2	2355.4	1168.8	1076.2	1086.0	1103.8	1123.5	1135.3	1121.5
5030.1	27.5°	4907.9	4176.6	2124.8	1129.4	1046.6	1052.5	1078.2	1107.7	1123.5	1105.8
5422.3	30°	5270.6	4348.1	1925.7	1147.1	1028.9	1015.1	1050.6	1092.0	1109.7	1093.9
5956.5	32.5°	5751.5	4590.5	1803.5	1174.7	1021.0	971.7	1005.2	1058.4	1088.0	1078.2
6654.2	35°	6382.2	4959.1	1756.2	1206.3	1015.1	926.4	950.0	1007.2	1058.4	1068.3
7533.3	37.5°	7147.0	5471.6	1770.0	1220.1	997.3	888.9	900.8	950.0	1017.1	1048.6
8522.8	40°	8016.2	6068.8	1848.8	1206.3	977.6	857.4	859.4	896.8	956.0	1003.3
9587.1	42.5°	8913.0	6766.6	1994.7	1155.0	959.9	829.8	823.9	849.5	888.9	922.4
10649.5	45°	9766.5	7484.0	2138.6	1084.1	938.2	802.2	788.4	798.3	806.2	820.0
11684.3	47.5°	10511.5	7988.6	2097.2	1019.0	908.6	770.7	747.0	743.1	719.4	717.5
12608.7	50°	11026.0	8099.0	1862.6	954.0	865.3	735.2	697.7	674.1	632.7	613.0
13300.6	52.5°	11189.6	7663.4	1521.6	888.9	794.3	687.9	634.7	597.2	546.0	528.2
13698.7	55°	10972.8	6809.9	1216.1	810.1	695.8	624.8	565.7	516.4	475.0	453.3
13742.1	57.5°	10442.6	5723.9	961.9	717.5	591.3	553.9	494.7	445.5	410.0	388.3
13261.1	60°	9563.5	4545.2	760.8	607.1	504.6	477.0	415.9	384.4	352.8	327.2
12019.4	62.5°	8229.1	3244.3	597.2	480.9	421.8	390.3	354.8	331.1	293.7	258.2
9786.2	65°	6421.6	1984.8	461.2	352.8	339.0	323.3	301.6	279.9	234.6	199.1
6384.2	67.5°	4050.5	940.2	329.2	266.1	268.1	260.2	250.3	232.6	199.1	167.5
2860.0	70°	1783.8	455.3	216.8	203.0	199.1	199.1	207.0	201.0	169.5	139.9
993.4	72.5°	607.1	244.4	161.6	153.7	143.9	141.9	173.5	167.5	136.0	108.4
494.7	75°	317.3	163.6	118.3	110.4	86.7	104.5	138.0	130.1	96.6	71.0
327.2	77.5°	207.0	116.3	80.8	71.0	49.3	69.0	102.5	90.7	57.2	35.5
214.8	80°	130.1	76.9	47.3	33.5	23.7	37.4	55.2	39.4	21.7	7.9
126.1	82.5°	69.0	39.4	17.7	11.8	9.9	11.8	13.8	9.9	3.9	0.0
65.0	85°	27.6	13.8	5.9	3.9	2.0	0.0	3.9	2.0	0.0	0.0
11.8	87.5°	9.9	2.0	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>
3898.7
3642.5
3049.2
2272.6
1533.5
1241.8
1210.2
1192.5
1164.9
1137.3
1119.5
1105.8
1092.0
1078.2
1068.3
1056.5
1019.0
936.2
827.8
715.5
615.0
526.3
453.3
384.4
321.3
252.3
193.2
163.6
134.0
102.5
65.0
31.5
5.9
0.0
0.0
0.0
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