

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: P951884

Luminaire Tested: **GALN-SB5D-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24102 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

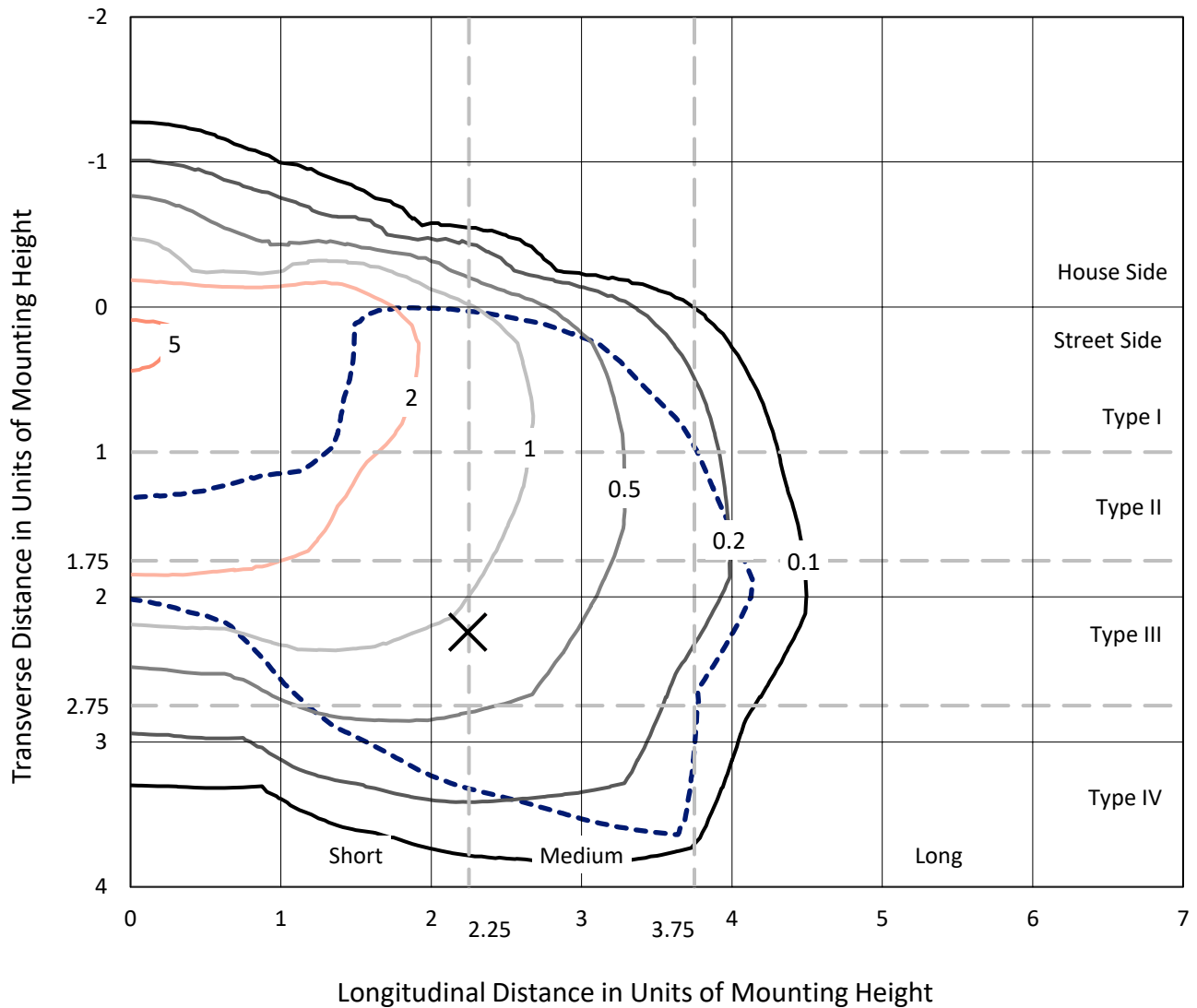
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

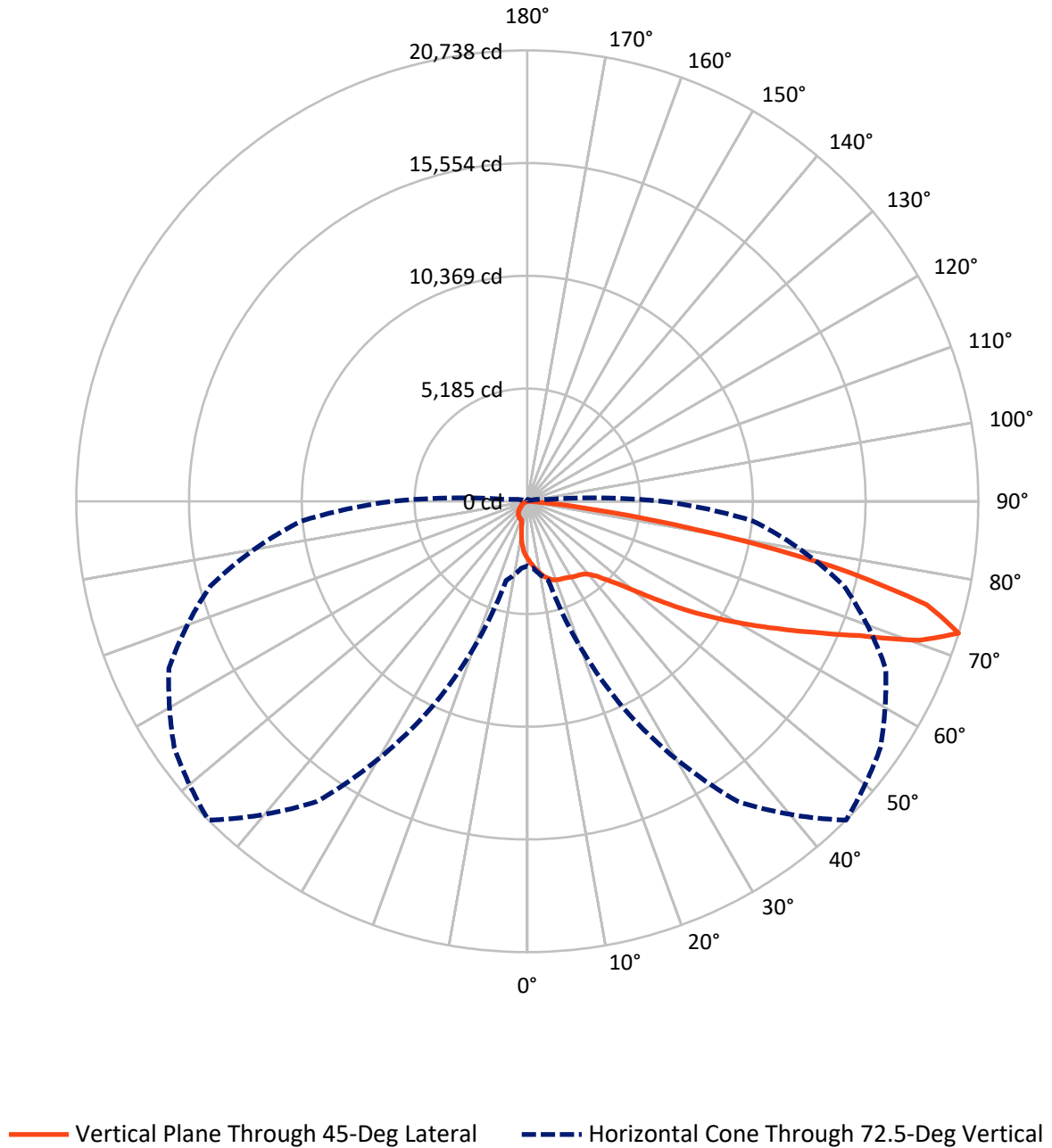
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2532.5	0.0	2532.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21569.5	0.0	21569.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	24102.0	0.0	24102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	1.0
10°-20°	727.1	3.0
20°-30°	1194.0	5.0
30°-40°	1693.3	7.0
40°-50°	2798.9	11.6
50°-60°	5028.0	20.9
60°-70°	6981.6	29.0
70°-80°	5064.2	21.0
80°-90°	366.1	1.5
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°	24102.0	100.0
0°-180°	24102.0	100.0

Coefficient of Utilization



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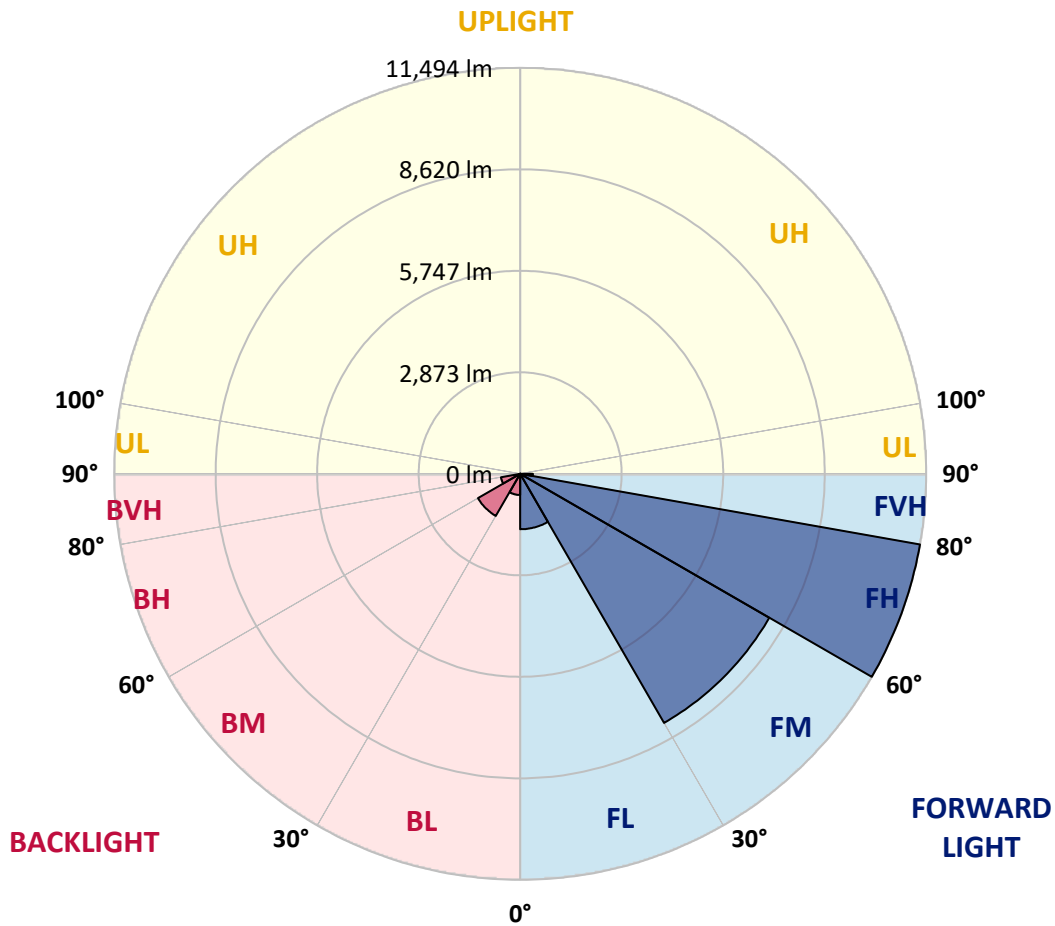
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.0	6.5			
FM (30°-60°)	8142.9	33.8			
FH (60°-80°)	11493.6	47.7			G4/12000
FVH (80°-90°)	363.0	1.5			G3/500
BL (0°-30°)	599.8	2.5	B2/1000		
BM (30°-60°)	1377.3	5.7	B2/2500		
BH (60°-80°)	552.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	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°	35°	45°	46°	55°	65°	75°
0°	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4
2.5°	2883.9	2888.8	2885.5	2865.8	2832.9	2814.8	2804.9	2772.0	2750.6	2712.8
5°	3148.8	3168.5	3157.0	3117.5	3055.0	3010.6	2997.4	2930.0	2869.1	2798.4
7.5°	3430.1	3440.0	3418.6	3367.6	3283.7	3208.0	3196.5	3102.7	3005.6	2897.1
10°	3673.6	3685.1	3652.2	3578.1	3482.7	3389.0	3372.5	3268.9	3153.7	3020.4
12.5°	3877.6	3889.1	3846.3	3757.5	3652.2	3555.1	3538.7	3430.1	3303.4	3155.3
15°	4032.2	4053.6	3996.0	3900.6	3787.1	3690.0	3681.8	3574.9	3451.5	3287.0
17.5°	4122.7	4144.1	4089.8	3974.6	3877.6	3795.3	3785.4	3696.6	3581.4	3423.5
20°	4137.5	4157.2	4099.7	3999.3	3918.7	3852.9	3847.9	3783.8	3699.9	3548.5
22.5°	4093.1	4117.7	4065.1	3984.5	3928.6	3894.0	3887.4	3851.2	3803.5	3675.2
25°	4047.0	4066.7	4027.3	3956.5	3926.9	3923.6	3928.6	3922.0	3912.1	3803.5
27.5°	4043.7	4065.1	4020.7	3953.2	3936.8	3971.3	3976.3	4007.5	4015.7	3920.3
30°	4071.7	4086.5	4043.7	3973.0	3964.8	4043.7	4045.4	4101.3	4114.5	4019.0
32.5°	4132.6	4149.0	4106.2	4002.6	3991.1	4101.3	4106.2	4180.3	4201.6	4124.3
35°	4275.7	4295.4	4246.1	4084.8	4043.7	4155.6	4170.4	4257.6	4300.4	4236.2
37.5°	4632.7	4575.1	4507.6	4251.0	4163.8	4241.1	4265.8	4367.8	4443.5	4369.5
40°	5519.4	5338.4	5127.9	4534.0	4374.4	4423.7	4443.5	4545.5	4649.1	4576.7
42.5°	6850.3	6636.4	6297.5	5185.4	4691.9	4716.6	4731.4	4820.2	4966.6	4909.1
45°	8036.4	7959.1	7613.6	6297.5	5285.8	5164.0	5182.1	5228.2	5443.7	5422.3
47.5°	8947.8	8903.4	8636.9	7574.2	6289.3	5711.9	5762.9	5784.3	6095.2	6170.9
50°	9648.7	9632.2	9393.7	8709.3	7600.5	6519.6	6537.7	6491.7	6957.2	7144.8
52.5°	10310.0	10365.9	10189.9	9763.8	9000.5	7577.4	7574.2	7357.0	7985.4	8268.4
55°	10907.2	10926.9	10945.0	10839.7	10408.7	8781.7	8750.4	8395.1	9178.2	9471.0
57.5°	11468.2	11476.4	11637.6	11853.1	11874.5	10074.7	10017.2	9591.1	10481.1	10690.0
60°	11844.9	11882.7	12223.3	12822.1	13083.7	11408.9	11377.7	10943.4	11807.1	11904.1
62.5°	11302.0	11532.3	12391.1	13578.9	14225.4	12887.9	12873.1	12465.1	13202.1	13123.2
65°	9148.5	9538.4	11048.7	14090.5	15345.7	14539.6	14561.0	14126.7	14635.0	14378.4
67.5°	6399.5	6810.8	8597.4	14131.6	16597.7	16479.2	16602.6	15921.5	16156.8	15581.0
70°	4425.4	4637.6	5800.7	13246.5	17573.2	19150.9	19147.6	18126.0	17670.3	16128.8
72.5°	2976.0	3086.3	3767.3	10509.1	16855.9	20738.4	20643.0	19810.6	18180.3	15084.1
75°	1255.2	1335.8	1743.8	5906.0	13335.4	18973.2	18714.9	17507.4	16153.5	11877.8
77.5°	398.1	432.7	687.7	2114.0	7345.5	14261.6	13988.5	10933.5	10826.6	5958.6
80°	189.2	220.4	386.6	848.9	2890.5	7756.8	7718.9	4960.1	4657.3	1608.9
82.5°	82.3	97.1	213.9	454.1	1293.1	2767.1	2823.0	1687.9	1396.7	610.3
85°	26.3	34.5	98.7	208.9	546.2	687.7	679.4	401.4	562.6	332.3
87.5°	0.0	0.0	32.9	47.7	55.9	39.5	44.4	34.5	156.3	92.1
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°
2640.4	0°	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4	2640.4
2673.3	2.5°	2653.6	2627.3	2581.2	2538.4	2500.6	2462.8	2439.7	2406.8	2403.5	2403.5
2716.1	5°	2671.7	2628.9	2546.7	2459.5	2359.1	2263.7	2168.3	2076.1	2046.5	2025.1
2785.2	7.5°	2724.3	2656.9	2526.9	2360.8	2169.9	1961.0	1814.6	1656.6	1595.8	1562.9
2877.3	10°	2800.0	2707.9	2510.5	2219.3	1910.0	1625.4	1416.5	1245.4	1179.6	1151.6
2977.7	12.5°	2883.9	2770.4	2480.8	2043.2	1625.4	1284.8	1080.8	1001.9	992.0	992.0
3097.8	15°	2984.3	2846.1	2429.8	1836.0	1327.6	1016.7	944.3	947.6	957.5	964.0
3214.6	17.5°	3087.9	2926.7	2349.2	1604.0	1064.4	914.7	916.3	921.3	929.5	936.1
3341.2	20°	3199.8	3007.3	2242.3	1357.2	913.0	885.1	890.0	894.9	901.5	904.8
3459.7	22.5°	3319.9	3083.0	2115.6	1115.4	862.0	860.4	862.0	867.0	875.2	875.2
3597.9	25°	3448.2	3166.9	1970.9	939.4	835.7	835.7	839.0	842.3	848.9	848.9
3731.1	27.5°	3579.8	3244.2	1817.9	847.2	812.7	811.0	811.0	816.0	819.3	820.9
3862.8	30°	3724.6	3334.7	1664.9	827.5	794.6	786.4	781.4	784.7	788.0	789.7
4000.9	32.5°	3872.6	3421.9	1528.3	835.7	776.5	761.7	745.2	742.0	742.0	748.5
4144.1	35°	4037.1	3517.3	1423.0	863.7	766.6	725.5	699.2	684.4	686.0	695.9
4315.2	37.5°	4234.6	3632.4	1345.7	888.4	760.0	684.4	641.6	623.5	612.0	623.5
4550.4	40°	4492.8	3801.9	1289.8	908.1	751.8	636.7	579.1	549.5	528.1	534.7
4915.6	42.5°	4872.9	4068.4	1268.4	909.8	733.7	580.7	514.9	475.4	444.2	445.8
5465.1	45°	5405.9	4489.5	1378.6	888.4	694.2	519.9	447.5	394.8	375.1	370.2
6286.0	47.5°	6136.3	5103.2	1633.6	843.9	636.7	460.6	381.7	337.3	322.4	314.2
7363.6	50°	7115.2	5891.2	1916.6	794.6	579.1	404.7	327.4	299.4	289.5	281.3
8641.8	52.5°	8250.3	6690.7	2148.5	745.2	521.5	355.3	292.8	276.4	268.2	261.6
9875.7	55°	9291.7	7241.8	2135.4	692.6	465.6	315.9	268.2	258.3	248.4	241.8
10938.4	57.5°	9939.8	7319.2	1760.3	635.0	401.4	284.6	245.1	238.5	227.0	218.8
11858.1	60°	10237.6	6878.3	1233.8	559.3	337.3	255.0	220.4	217.2	202.4	190.8
12728.3	62.5°	10291.9	6059.0	822.6	465.6	281.3	227.0	195.8	190.8	171.1	151.4
13435.7	65°	10071.5	4887.7	569.2	363.6	240.2	197.4	167.8	157.9	136.5	116.8
13603.5	67.5°	9373.9	3431.7	396.5	261.6	204.0	156.3	133.3	130.0	113.5	97.1
12748.1	70°	8095.7	1956.1	264.9	195.8	161.2	106.9	105.3	108.6	92.1	79.0
10415.3	72.5°	6207.1	894.9	164.5	143.1	110.2	72.4	83.9	85.5	70.7	59.2
6498.2	75°	3653.8	383.3	103.6	92.1	55.9	47.7	60.9	62.5	47.7	37.8
2375.6	77.5°	1243.7	144.8	65.8	54.3	28.0	26.3	39.5	39.5	26.3	14.8
477.1	80°	283.0	54.3	32.9	21.4	13.2	11.5	13.2	11.5	6.6	1.6
146.4	82.5°	80.6	21.4	13.2	8.2	4.9	4.9	1.6	0.0	0.0	0.0
51.0	85°	23.0	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
18.1	87.5°	9.9	1.6	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>
2640.4
2411.8
2035.0
1567.8
1151.6
992.0
964.0
936.1
906.5
878.5
850.5
822.6
793.0
753.5
700.8
620.2
531.4
439.2
363.6
309.3
279.7
259.9
238.5
217.2
187.5
141.5
110.2
92.1
72.4
52.6
32.9
11.5
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