

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: P951002

Luminaire Tested: **GALN-SB5B-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951002
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-SB5B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA 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: 23181 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

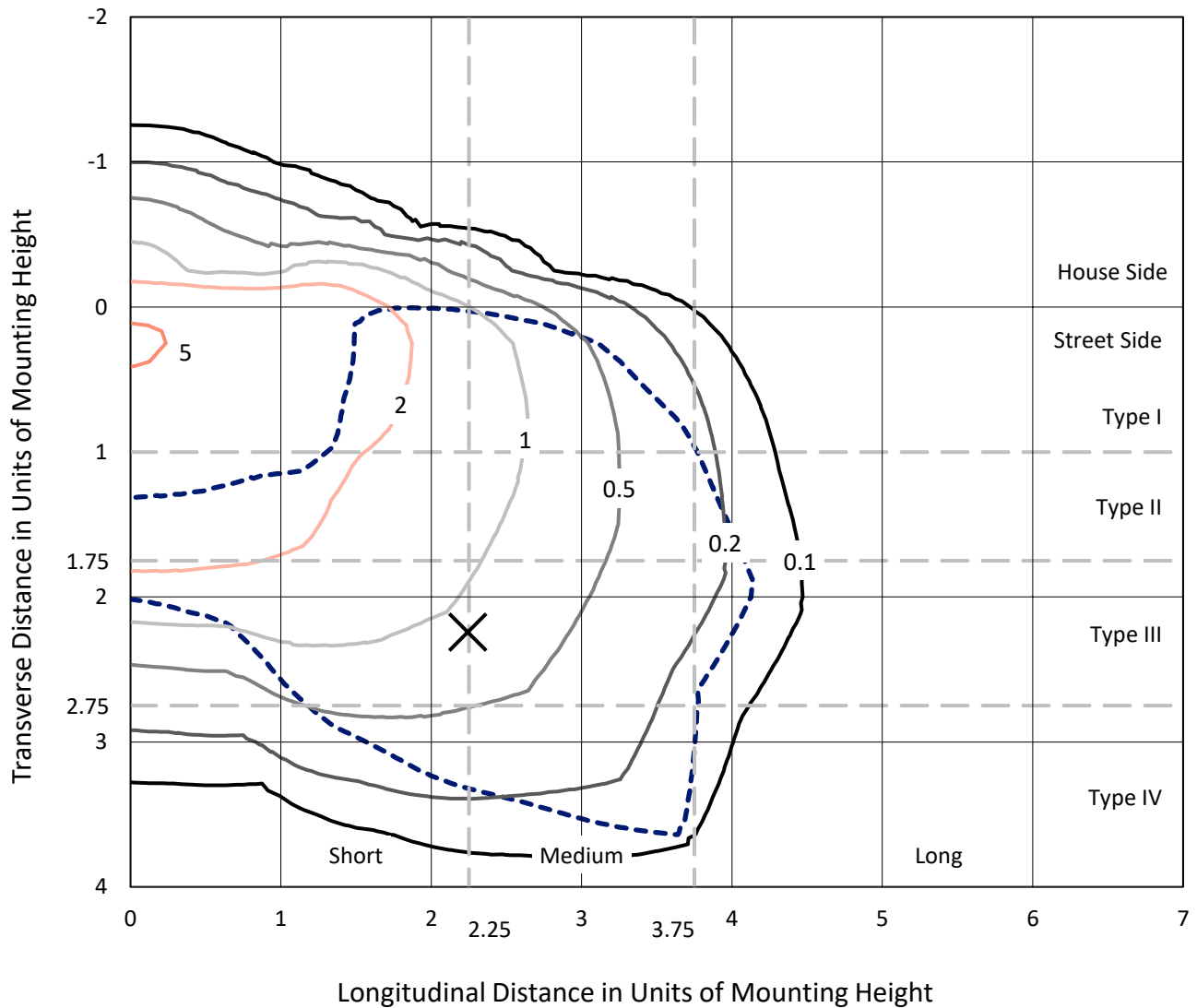
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

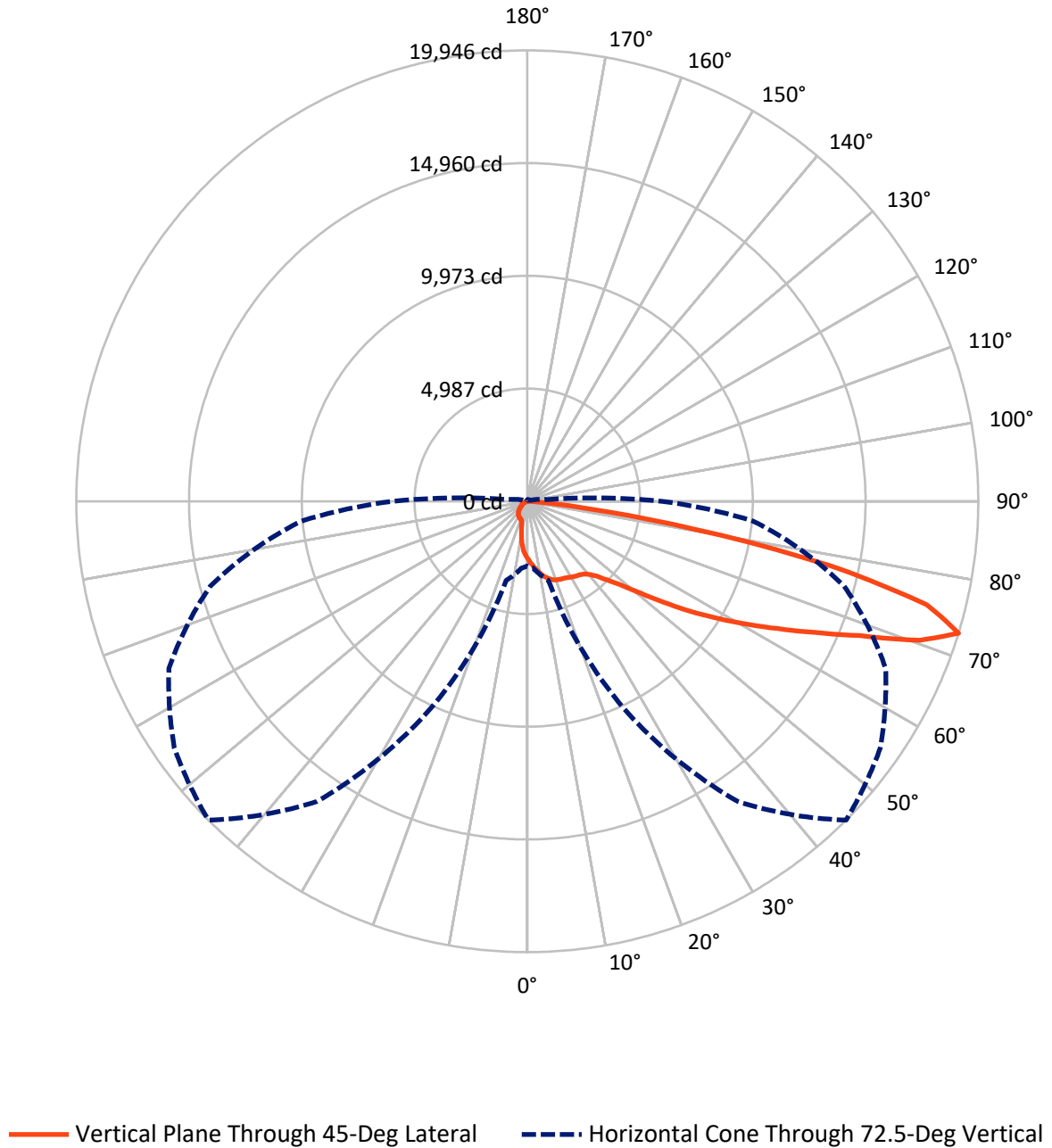
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2435.7	0.0	2435.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20745.3	0.0	20745.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	23181.0	0.0	23181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	1.0
10°-20°	699.3	3.0
20°-30°	1148.4	5.0
30°-40°	1628.6	7.0
40°-50°	2692.0	11.6
50°-60°	4835.8	20.9
60°-70°	6714.8	29.0
70°-80°	4870.7	21.0
80°-90°	352.1	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°	23181.0	100.0
0°-180°	23181.0	100.0

Coefficient of Utilization



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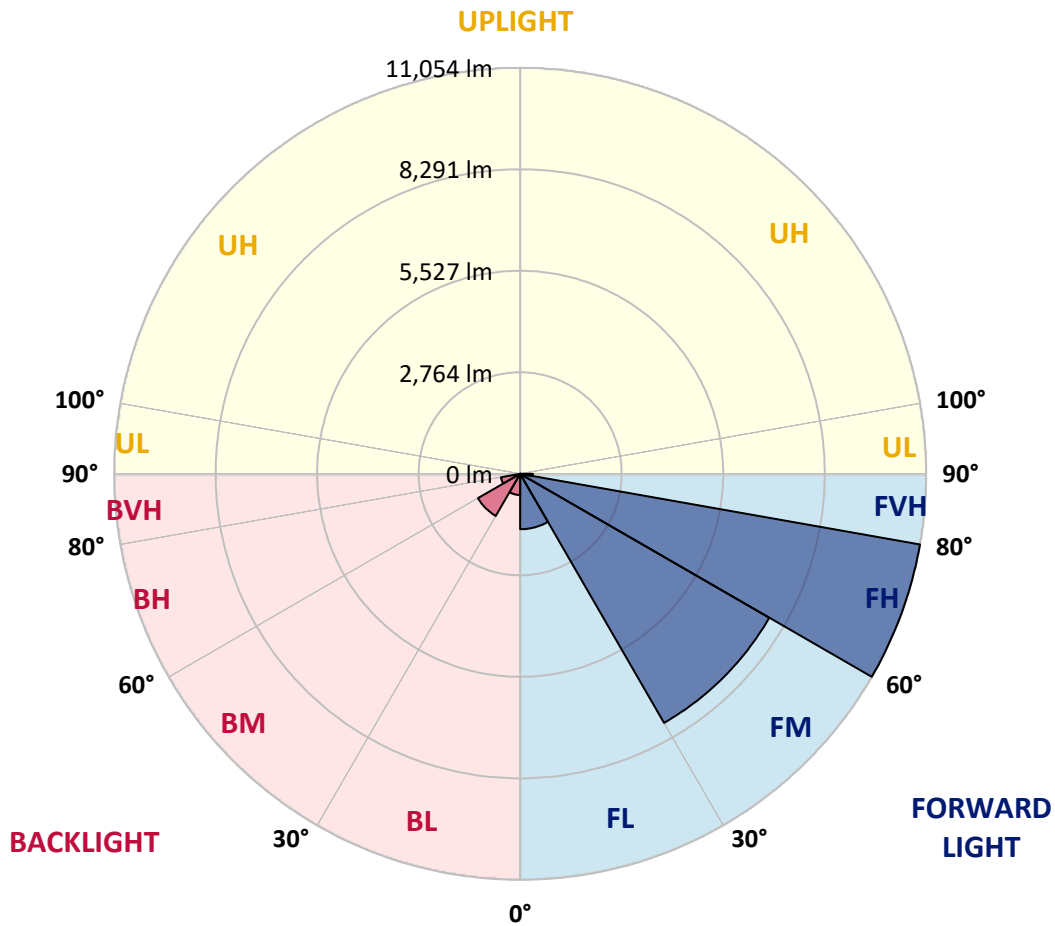
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.0	6.5			
FM (30°-60°)	7831.8	33.8			
FH (60°-80°)	11054.4	47.7			G4/12000
FVH (80°-90°)	349.2	1.5			G3/500
BL (0°-30°)	576.9	2.5	B2/1000		
BM (30°-60°)	1324.7	5.7	B2/2500		
BH (60°-80°)	531.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2.5°	2773.7	2778.4	2775.3	2756.3	2724.7	2707.2	2697.8	2666.1	2645.5	2609.1
5°	3028.4	3047.4	3036.4	2998.4	2938.3	2895.5	2882.9	2818.0	2759.5	2691.4
7.5°	3299.0	3308.5	3287.9	3238.9	3158.2	3085.4	3074.3	2984.1	2890.8	2786.4
10°	3533.2	3544.3	3512.6	3441.4	3349.6	3259.5	3243.6	3144.0	3033.2	2905.0
12.5°	3729.4	3740.5	3699.3	3613.9	3512.6	3419.3	3403.4	3299.0	3177.2	3034.8
15°	3878.1	3898.7	3843.3	3751.5	3642.4	3549.0	3541.1	3438.3	3319.6	3161.4
17.5°	3965.1	3985.7	3933.5	3822.7	3729.4	3650.3	3640.8	3555.3	3444.6	3292.7
20°	3979.4	3998.4	3943.0	3846.5	3768.9	3705.7	3700.9	3639.2	3558.5	3412.9
22.5°	3936.7	3960.4	3909.8	3832.2	3778.4	3745.2	3738.9	3704.1	3658.2	3534.8
25°	3892.4	3911.3	3873.4	3805.3	3776.9	3773.7	3778.4	3772.1	3762.6	3658.2
27.5°	3889.2	3909.8	3867.0	3802.2	3786.3	3819.6	3824.3	3854.4	3862.3	3770.5
30°	3916.1	3930.3	3889.2	3821.2	3813.2	3889.2	3890.8	3944.6	3957.2	3865.5
32.5°	3974.6	3990.5	3949.3	3849.6	3838.6	3944.6	3949.3	4020.5	4041.1	3966.7
35°	4112.3	4131.3	4083.8	3928.8	3889.2	3996.8	4011.0	4094.9	4136.0	4074.3
37.5°	4455.6	4400.3	4335.4	4088.6	4004.7	4079.1	4102.8	4200.9	4273.7	4202.5
40°	5308.5	5134.4	4931.9	4360.7	4207.2	4254.7	4273.7	4371.8	4471.5	4401.8
42.5°	6588.5	6382.8	6056.9	4987.3	4512.6	4536.3	4550.6	4636.0	4776.8	4721.5
45°	7729.3	7655.0	7322.7	6056.9	5083.8	4966.7	4984.1	5028.4	5235.7	5215.1
47.5°	8605.9	8563.2	8306.9	7284.7	6049.0	5493.6	5542.7	5563.2	5862.3	5935.1
50°	9280.0	9264.1	9034.7	8376.5	7310.0	6270.5	6287.9	6243.6	6691.4	6871.8
52.5°	9916.0	9969.8	9800.5	9390.7	8656.5	7287.9	7284.7	7075.9	7680.3	7952.4
55°	10490.4	10509.4	10526.8	10425.5	10011.0	8446.1	8416.0	8074.3	8827.4	9109.1
57.5°	11029.9	11037.8	11192.9	11400.2	11420.8	9689.8	9634.4	9224.6	10080.6	10281.5
60°	11392.3	11428.7	11756.2	12332.1	12583.7	10973.0	10942.9	10525.2	11355.9	11449.2
62.5°	10870.1	11091.6	11917.6	13060.0	13681.8	12395.4	12381.2	11988.8	12697.6	12621.7
65°	8798.9	9173.9	10626.5	13552.1	14759.3	13984.0	14004.6	13586.9	14075.8	13829.0
67.5°	6155.0	6550.6	8268.9	13591.6	15963.4	15849.5	15968.2	15313.1	15539.4	14985.6
70°	4256.3	4460.4	5579.0	12740.4	16901.7	18419.1	18415.9	17433.3	16995.1	15512.5
72.5°	2862.3	2968.3	3623.4	10107.5	16211.8	19946.0	19854.2	19053.6	17485.6	14507.7
75°	1207.3	1284.8	1677.2	5680.3	12825.8	18248.2	17999.8	16838.4	15536.2	11423.9
77.5°	382.9	416.1	661.4	2033.2	7064.8	13716.6	13454.0	10515.7	10412.9	5730.9
80°	182.0	212.0	371.8	816.4	2780.0	7460.4	7424.0	4770.5	4479.4	1547.5
82.5°	79.1	93.4	205.7	436.7	1243.7	2661.4	2715.2	1623.4	1343.3	587.0
85°	25.3	33.2	94.9	200.9	525.3	661.4	653.5	386.1	541.1	319.6
87.5°	0.0	0.0	31.6	45.9	53.8	38.0	42.7	33.2	150.3	88.6
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°
2539.5	0°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2571.2	2.5°	2552.2	2526.9	2482.6	2441.4	2405.0	2368.6	2346.5	2314.8	2311.7	2311.7
2612.3	5°	2569.6	2528.5	2449.3	2365.5	2269.0	2177.2	2085.4	1996.8	1968.3	1947.8
2678.8	7.5°	2620.2	2555.4	2430.4	2270.5	2087.0	1886.1	1745.2	1593.3	1534.8	1503.1
2767.4	10°	2693.0	2604.4	2414.5	2134.5	1837.0	1563.3	1362.3	1197.8	1134.5	1107.6
2863.9	12.5°	2773.7	2664.5	2386.0	1965.2	1563.3	1235.7	1039.5	963.6	954.1	954.1
2979.4	15°	2870.2	2737.3	2337.0	1765.8	1276.9	977.8	908.2	911.4	920.9	927.2
3091.7	17.5°	2969.9	2814.8	2259.5	1542.7	1023.7	879.7	881.3	886.1	894.0	900.3
3213.6	20°	3077.5	2892.4	2156.6	1305.4	878.2	851.3	856.0	860.7	867.1	870.2
3327.5	22.5°	3193.0	2965.2	2034.8	1072.8	829.1	827.5	829.1	833.9	841.8	841.8
3460.4	25°	3316.4	3045.9	1895.5	903.5	803.8	803.8	807.0	810.1	816.4	816.4
3588.6	27.5°	3443.0	3120.2	1748.4	814.9	781.6	780.1	780.1	784.8	788.0	789.5
3715.1	30°	3582.2	3207.2	1601.2	795.9	764.2	756.3	751.6	754.7	757.9	759.5
3848.1	32.5°	3724.6	3291.1	1469.9	803.8	746.8	732.6	716.8	713.6	713.6	719.9
3985.7	35°	3882.9	3382.9	1368.7	830.7	737.3	697.8	672.5	658.2	659.8	669.3
4150.3	37.5°	4072.7	3493.6	1294.3	854.4	731.0	658.2	617.1	599.7	588.6	599.7
4376.5	40°	4321.2	3656.6	1240.5	873.4	723.1	612.3	557.0	528.5	507.9	514.2
4727.8	42.5°	4686.7	3912.9	1219.9	875.0	705.7	558.5	495.2	457.3	427.2	428.8
5256.3	45°	5199.3	4318.0	1325.9	854.4	667.7	500.0	430.4	379.7	360.8	356.0
6045.8	47.5°	5901.8	4908.2	1571.2	811.7	612.3	443.0	367.1	324.4	310.1	302.2
7082.2	50°	6843.3	5666.1	1843.3	764.2	557.0	389.2	314.9	288.0	278.5	270.6
8311.6	52.5°	7935.0	6435.1	2066.4	716.8	501.6	341.8	281.6	265.8	257.9	251.6
9498.3	55°	8936.6	6965.1	2053.8	666.1	447.8	303.8	257.9	248.4	238.9	232.6
10520.4	57.5°	9560.0	7039.5	1693.0	610.8	386.1	273.7	235.8	229.4	218.4	210.4
11404.9	60°	9846.4	6615.4	1186.7	538.0	324.4	245.3	212.0	208.9	194.6	183.5
12241.9	62.5°	9898.6	5827.5	791.1	447.8	270.6	218.4	188.3	183.5	164.6	145.6
12922.3	65°	9686.6	4700.9	547.5	349.7	231.0	189.9	161.4	151.9	131.3	112.3
13083.7	67.5°	9015.7	3300.6	381.3	251.6	196.2	150.3	128.2	125.0	109.2	93.4
12260.9	70°	7786.3	1881.3	254.7	188.3	155.1	102.8	101.3	104.4	88.6	75.9
10017.3	72.5°	5969.9	860.7	158.2	137.7	106.0	69.6	80.7	82.3	68.0	57.0
6249.9	75°	3514.2	368.7	99.7	88.6	53.8	45.9	58.5	60.1	45.9	36.4
2284.8	77.5°	1196.2	139.2	63.3	52.2	26.9	25.3	38.0	38.0	25.3	14.2
458.9	80°	272.1	52.2	31.6	20.6	12.7	11.1	12.7	11.1	6.3	1.6
140.8	82.5°	77.5	20.6	12.7	7.9	4.7	4.7	1.6	0.0	0.0	0.0
49.1	85°	22.2	9.5	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17.4	87.5°	9.5	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

180°
2539.5
2319.6
1957.3
1507.9
1107.6
954.1
927.2
900.3
871.8
844.9
818.0
791.1
762.6
724.7
674.0
596.5
511.1
422.5
349.7
297.5
269.0
250.0
229.4
208.9
180.4
136.1
106.0
88.6
69.6
50.6
31.6
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