

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: P941388

Luminaire Tested: **GALN-SB4D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941388
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-SB4D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 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: 18796 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

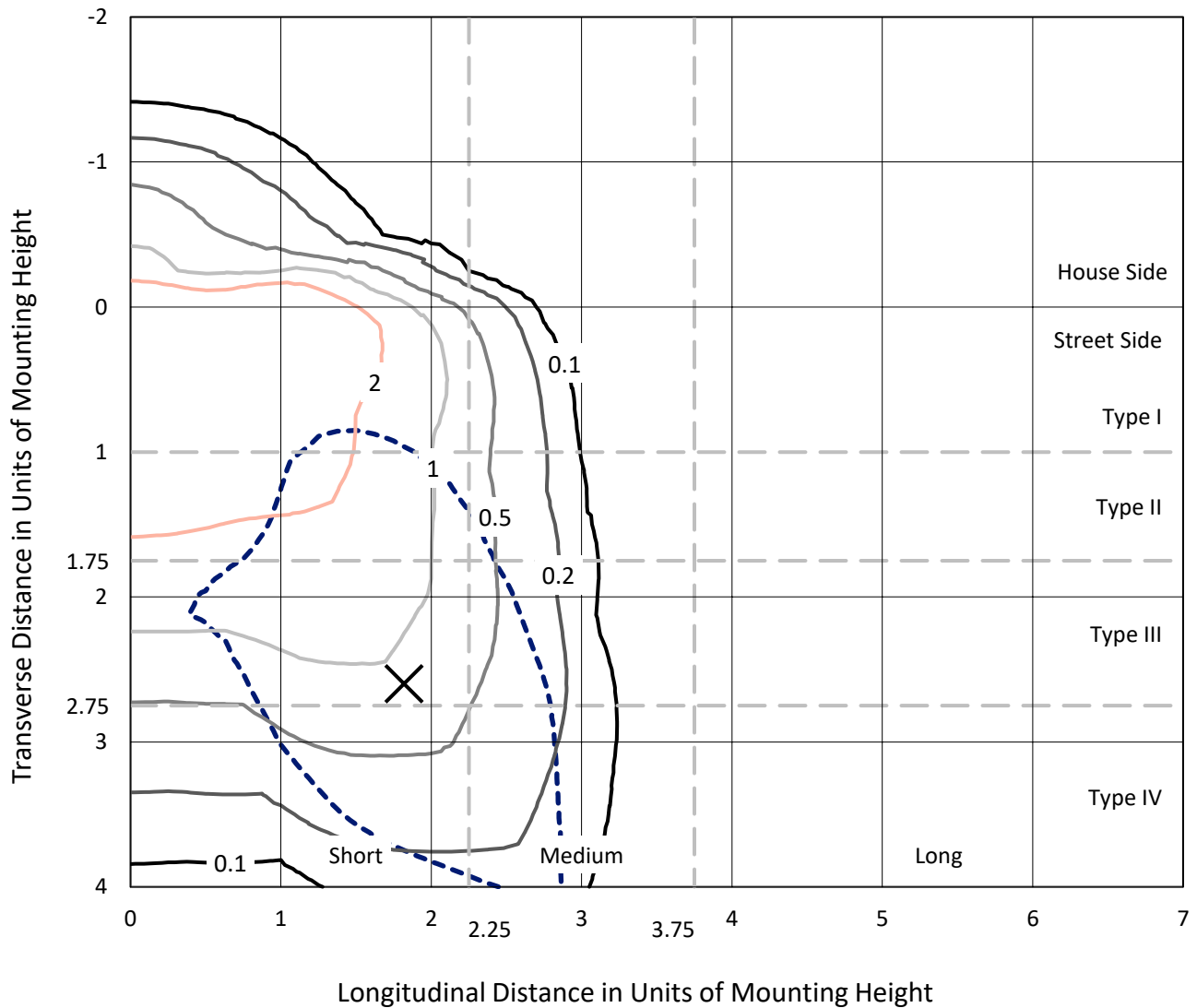
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

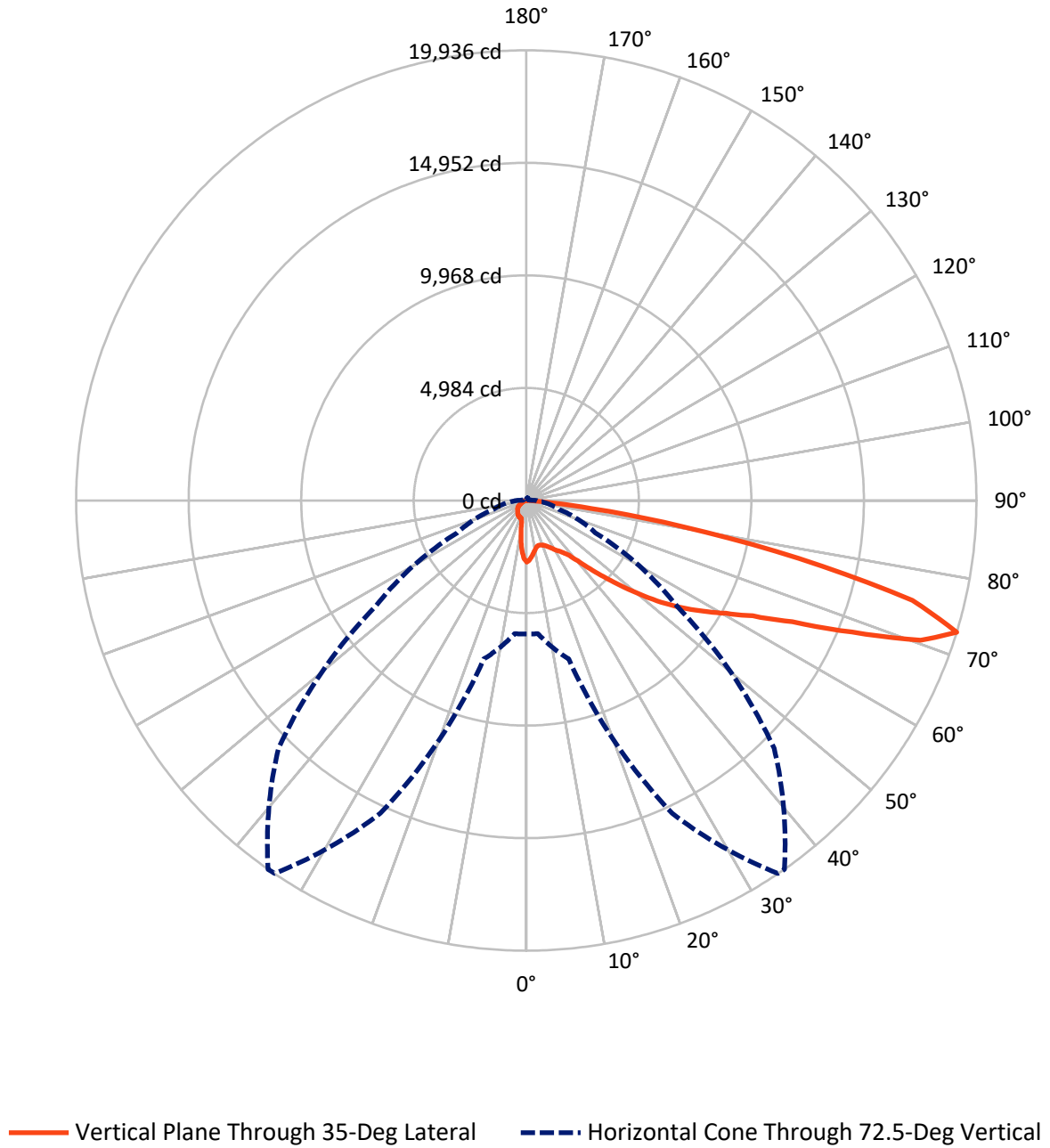
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2115.4	0.0	2115.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	16680.6	0.0	16680.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	18796.0	0.0	18796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.2
10°-20°	523.7	2.8
20°-30°	850.7	4.5
30°-40°	1419.4	7.6
40°-50°	2685.5	14.3
50°-60°	4267.3	22.7
60°-70°	5278.9	28.1
70°-80°	3281.4	17.5
80°-90°	265.2	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°	18796.0	100.0
0°-180°	18796.0	100.0

Coefficient of Utilization



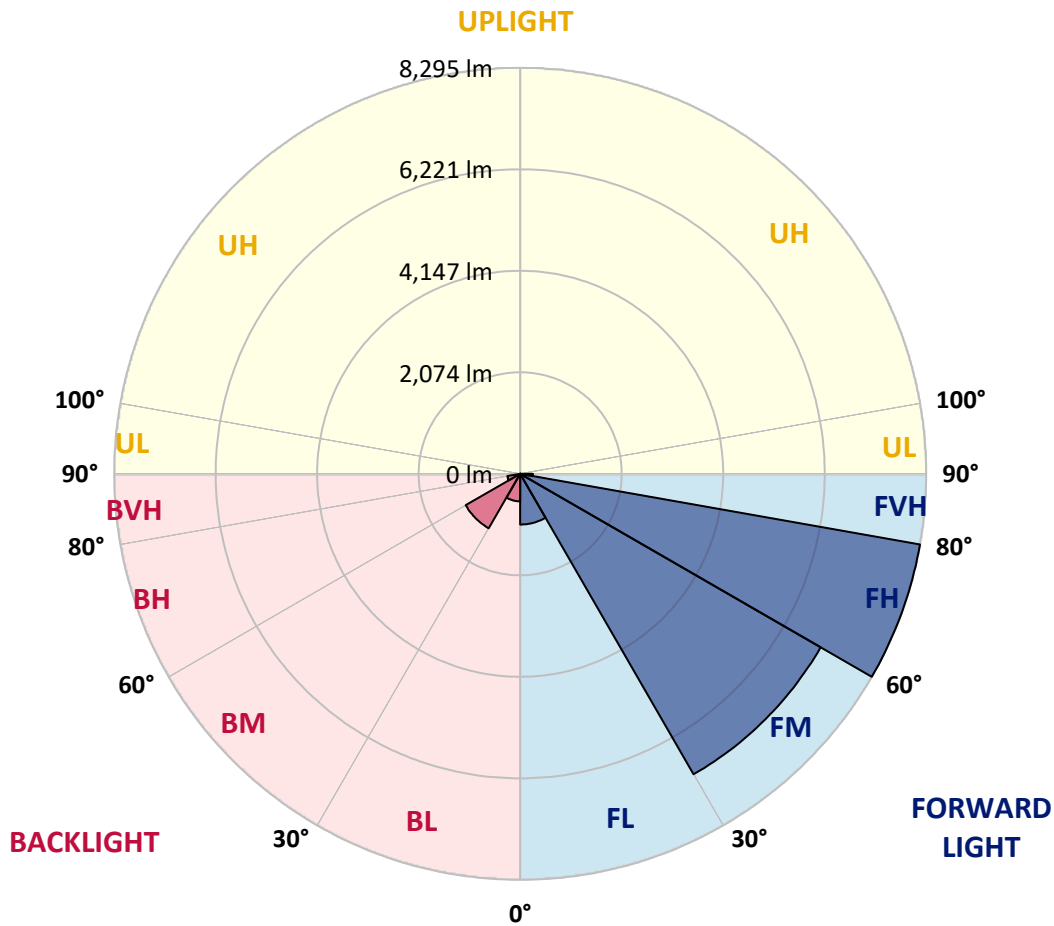
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.1	5.5			
FM (30°-60°)	7088.0	37.7			
FH (60°-80°)	8294.9	44.1			G4/12000
FVH (80°-90°)	261.6	1.4			G3/500
BL (0°-30°)	562.1	3.0	B2/1000		
BM (30°-60°)	1284.2	6.8	B2/2500		
BH (60°-80°)	265.4	1.4	B1/500		G1/500
BVH (80°-90°)	3.6	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°	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2
2.5°	2603.0	2625.0	2629.1	2636.0	2636.0	2644.3	2658.1	2677.3	2709.0	2725.5
5°	2399.1	2415.7	2436.3	2452.9	2484.5	2488.7	2542.4	2594.7	2667.7	2722.8
7.5°	2193.9	2213.2	2240.8	2280.7	2322.0	2334.4	2415.7	2503.8	2619.5	2722.8
10°	2049.3	2050.7	2075.5	2115.4	2181.5	2196.7	2295.9	2421.2	2565.8	2706.3
12.5°	1968.1	1977.7	1988.7	2019.0	2082.4	2092.0	2198.1	2345.4	2512.1	2696.6
15°	1968.1	1975.0	1981.8	1997.0	2047.9	2056.2	2149.9	2297.2	2484.5	2700.8
17.5°	1988.7	1999.7	1994.2	2012.1	2065.9	2071.4	2154.0	2283.5	2483.2	2726.9
20°	2038.3	2046.6	2035.6	2046.6	2100.3	2111.3	2196.7	2309.6	2506.6	2772.4
22.5°	2116.8	2120.9	2094.8	2103.0	2158.1	2171.9	2271.1	2384.0	2563.0	2845.4
25°	2216.0	2224.2	2184.3	2193.9	2246.3	2262.8	2377.1	2495.5	2652.6	2945.9
27.5°	2330.3	2334.4	2300.0	2298.6	2366.1	2389.5	2505.2	2633.3	2772.4	3072.6
30°	2461.1	2473.5	2440.5	2435.0	2520.3	2539.6	2653.9	2802.7	2948.7	3262.7
32.5°	2564.4	2574.1	2554.8	2568.5	2655.3	2670.5	2834.3	3042.3	3225.5	3532.6
35°	2713.2	2718.7	2674.6	2699.4	2798.5	2837.1	3080.9	3378.4	3573.9	3871.4
37.5°	3251.7	3251.7	3064.3	2941.8	3036.8	3071.2	3418.3	3801.2	4003.6	4325.9
40°	3996.7	3984.3	3710.3	3459.6	3447.2	3514.7	3899.0	4334.2	4558.6	4871.3
42.5°	4791.4	4772.1	4398.9	4151.0	4109.7	4133.1	4454.0	4991.1	5219.7	5536.5
45°	5496.5	5491.0	5149.5	4816.2	4741.8	4816.2	5146.7	5759.6	5923.5	6256.8
47.5°	6087.4	6087.4	5838.1	5620.5	5581.9	5626.0	6084.6	6612.1	6597.0	7023.9
50°	6767.7	6762.2	6525.3	6431.7	6471.6	6533.6	7164.4	7510.1	7293.8	7777.2
52.5°	7244.3	7277.3	7196.1	7180.9	7384.7	7492.2	8260.7	8388.7	7917.7	8492.0
55°	7621.6	7660.2	7753.8	7859.9	8252.4	8392.9	9322.5	9222.0	8439.7	9111.8
57.5°	8156.0	8100.9	8245.5	8454.8	9089.8	9259.2	10351.3	10008.4	8859.8	9614.5
60°	8804.7	8812.9	8837.7	9102.1	9925.7	10143.3	11364.9	10752.1	9129.7	9923.0
62.5°	9584.2	9596.6	9647.5	10053.8	11048.2	11253.4	12444.7	11360.8	9253.6	9836.2
65°	9530.5	9582.8	10151.6	11541.2	12754.6	12957.0	13704.9	11787.8	9066.3	9042.9
67.5°	8682.1	8767.5	9719.1	13317.9	15327.2	15553.1	15228.1	11871.8	8257.9	7032.2
70°	7569.3	7599.6	8744.1	14915.5	18306.2	18534.8	16591.5	10947.6	6266.4	3922.4
72.5°	5911.1	5918.0	7260.8	15285.9	19923.1	19935.5	15521.4	8127.1	3370.1	1506.7
75°	4222.6	4181.3	4863.0	12396.5	17528.1	17668.5	11636.3	3812.2	1287.7	712.0
77.5°	2264.2	2309.6	2751.7	7351.7	12108.6	12348.3	6349.1	1099.0	655.6	484.8
80°	699.6	738.2	1128.0	3366.0	6858.6	7003.2	2353.7	488.9	457.2	345.7
82.5°	220.4	228.6	526.1	1414.4	2846.7	2912.9	681.7	276.8	312.6	228.6
85°	63.4	64.7	234.1	527.5	703.8	717.5	191.4	107.4	179.0	141.9
87.5°	6.9	22.0	88.1	88.1	62.0	60.6	20.7	23.4	51.0	17.9
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°
2724.2	0°	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2	2724.2
2736.6	2.5°	2729.7	2731.1	2713.2	2682.9	2649.8	2622.3	2587.8	2560.3	2541.0	2535.5
2761.4	5°	2749.0	2739.3	2688.4	2596.1	2485.9	2390.9	2284.8	2200.8	2145.7	2122.3
2787.5	7.5°	2777.9	2750.3	2638.8	2457.0	2246.3	2059.0	1868.9	1721.5	1627.9	1581.1
2812.3	10°	2802.7	2747.6	2556.1	2255.9	1933.6	1649.9	1393.8	1216.1	1116.9	1070.1
2841.2	12.5°	2826.1	2746.2	2448.7	2017.6	1581.1	1234.0	995.7	907.6	880.1	870.4
2888.1	15°	2870.2	2750.3	2313.8	1745.0	1229.9	932.4	845.6	844.2	849.8	847.0
2959.7	17.5°	2930.8	2754.5	2160.9	1455.7	948.9	822.2	818.1	830.5	838.7	834.6
3049.2	20°	3009.3	2771.0	1998.4	1169.3	815.3	794.7	804.3	815.3	822.2	815.3
3169.0	22.5°	3119.4	2799.9	1820.7	939.3	772.6	778.1	786.4	798.8	805.7	796.0
3321.9	25°	3254.4	2845.4	1645.8	816.7	752.0	758.9	771.3	785.0	793.3	783.6
3514.7	27.5°	3429.3	2918.4	1484.7	789.2	731.3	735.4	753.3	774.0	785.0	772.6
3788.8	30°	3682.7	3038.2	1345.6	801.6	718.9	709.3	734.1	763.0	775.4	764.4
4162.0	32.5°	4018.8	3207.6	1260.2	820.8	713.4	679.0	702.4	739.6	760.2	753.3
4649.5	35°	4459.5	3465.1	1227.1	842.9	709.3	647.3	663.8	703.8	739.6	746.5
5263.8	37.5°	4993.9	3823.2	1236.8	852.5	696.9	621.1	629.4	663.8	710.7	732.7
5955.2	40°	5601.2	4240.5	1291.8	842.9	683.1	599.1	600.5	626.6	668.0	701.0
6698.9	42.5°	6227.9	4728.0	1393.8	807.1	670.7	579.8	575.7	593.6	621.1	644.5
7441.2	45°	6824.2	5229.4	1494.3	757.5	655.6	560.5	550.9	557.8	563.3	572.9
8164.2	47.5°	7344.8	5581.9	1465.4	712.0	634.9	538.5	522.0	519.2	502.7	501.3
8810.2	50°	7704.3	5659.1	1301.5	666.6	604.6	513.7	487.5	471.0	442.1	428.3
9293.6	52.5°	7818.6	5354.7	1063.2	621.1	555.0	480.7	443.5	417.3	381.5	369.1
9571.8	55°	7667.1	4758.3	849.8	566.0	486.2	436.6	395.3	360.8	331.9	316.8
9602.1	57.5°	7296.6	3999.5	672.1	501.3	413.2	387.0	345.7	311.3	286.5	271.3
9266.0	60°	6682.3	3175.9	531.6	424.2	352.6	333.3	290.6	268.6	246.5	228.6
8398.4	62.5°	5750.0	2266.9	417.3	336.0	294.7	272.7	247.9	231.4	205.2	180.4
6838.0	65°	4487.0	1386.9	322.3	246.5	236.9	225.9	210.7	195.6	163.9	139.1
4460.9	67.5°	2830.2	656.9	230.0	185.9	187.3	181.8	174.9	162.5	139.1	117.1
1998.4	70°	1246.4	318.1	151.5	141.9	139.1	139.1	144.6	140.5	118.4	97.8
694.1	72.5°	424.2	170.8	112.9	107.4	100.5	99.2	121.2	117.1	95.0	75.7
345.7	75°	221.7	114.3	82.6	77.1	60.6	73.0	96.4	90.9	67.5	49.6
228.6	77.5°	144.6	81.3	56.5	49.6	34.4	48.2	71.6	63.4	39.9	24.8
150.1	80°	90.9	53.7	33.1	23.4	16.5	26.2	38.6	27.5	15.1	5.5
88.1	82.5°	48.2	27.5	12.4	8.3	6.9	8.3	9.6	6.9	2.8	0.0
45.4	85°	19.3	9.6	4.1	2.8	1.4	0.0	2.8	1.4	0.0	0.0
8.3	87.5°	6.9	1.4	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

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<u>180°</u>
2724.2
2545.1
2130.6
1588.0
1071.5
867.7
845.6
833.2
813.9
794.7
782.3
772.6
763.0
753.3
746.5
738.2
712.0
654.2
578.4
499.9
429.7
367.7
316.8
268.6
224.5
176.3
135.0
114.3
93.7
71.6
45.4
22.0
4.1
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