

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: P956588

Luminaire Tested: **GALN-SB9A-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956588  
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-SB9A-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

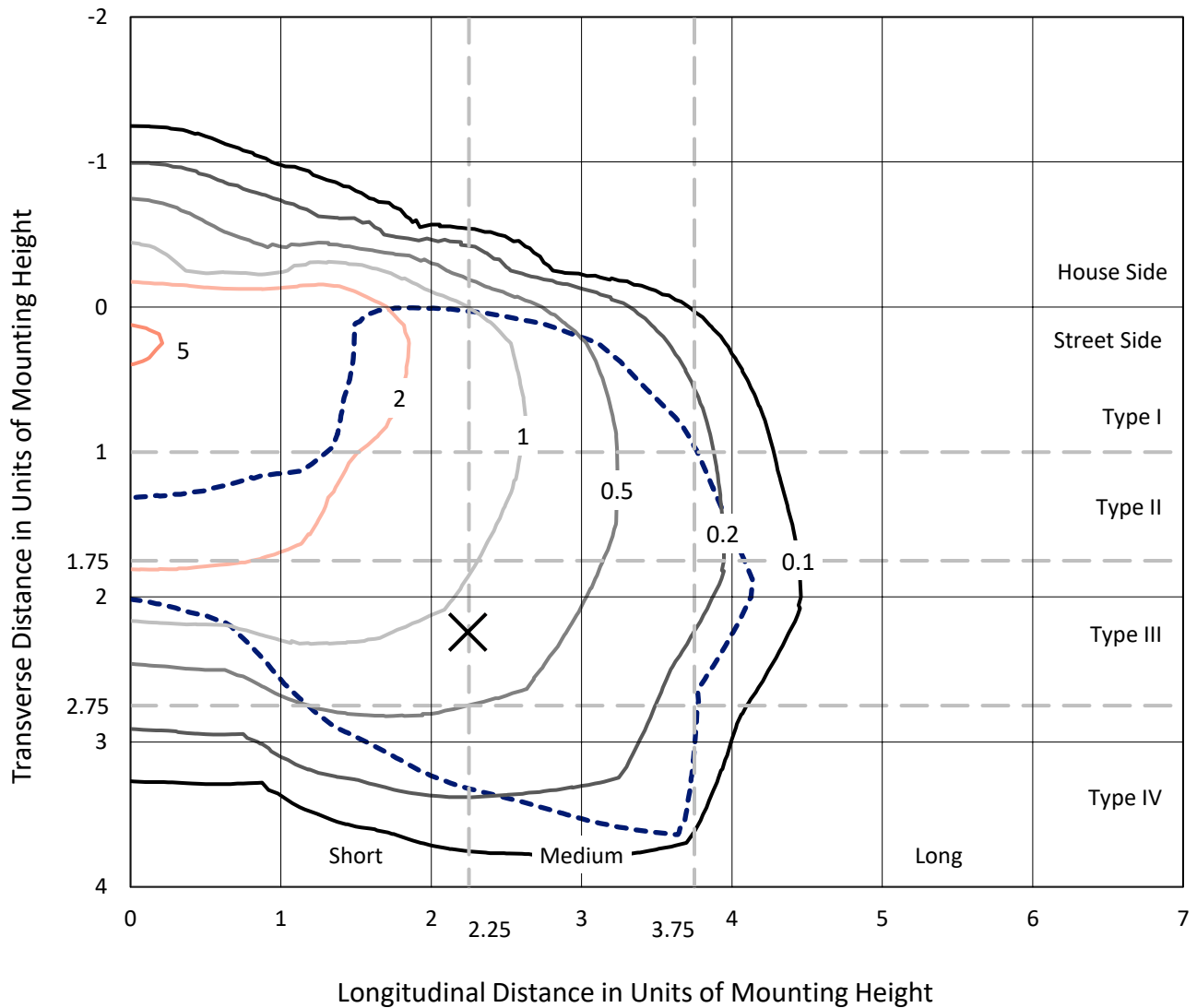
Lumens per Lamp: N/A  
Luminaire Lumens: 22806 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

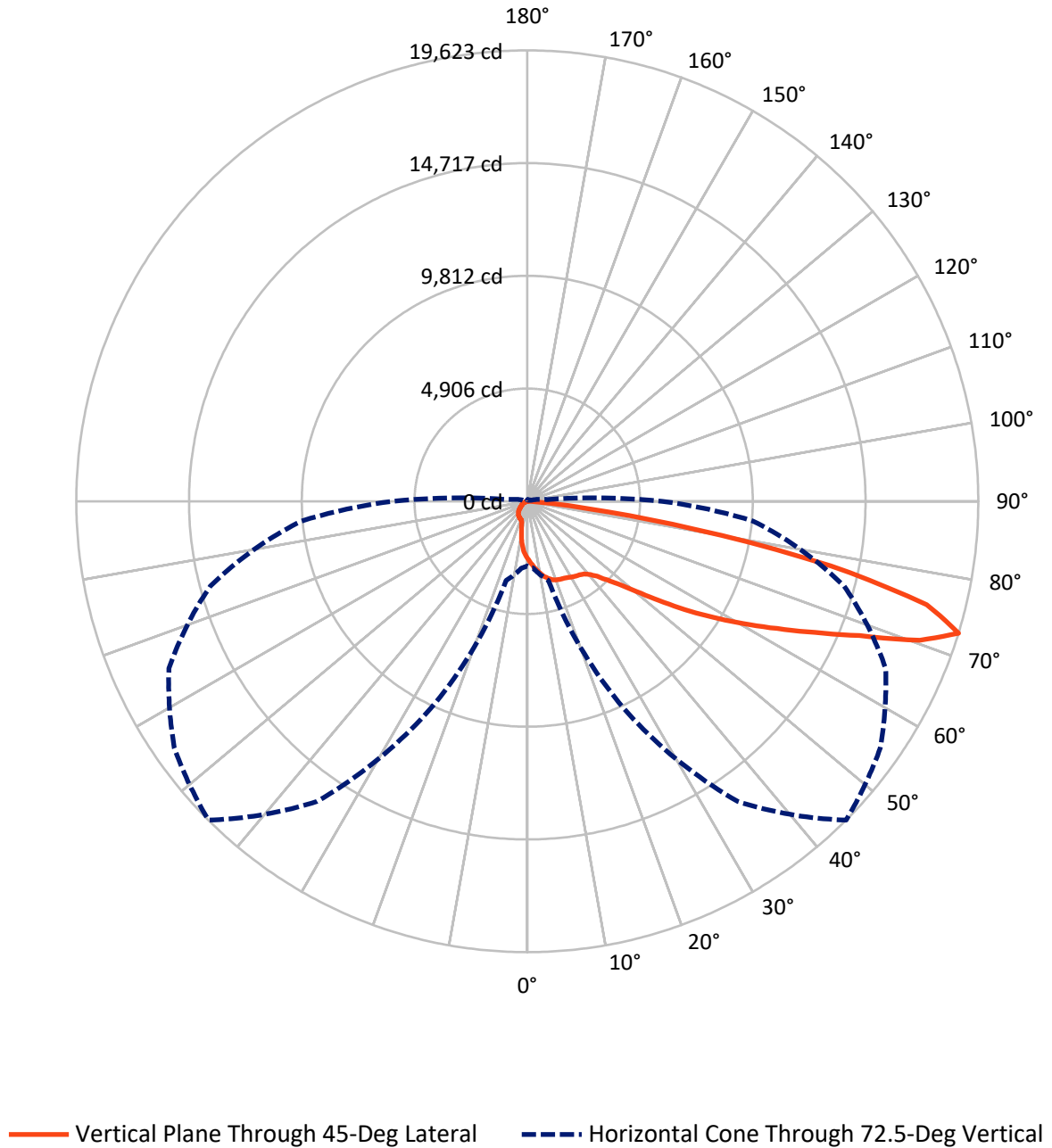
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2396.3	0.0	2396.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	20409.7	0.0	20409.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	22806.0	0.0	22806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	1.0
10°-20°	688.0	3.0
20°-30°	1129.8	5.0
30°-40°	1602.3	7.0
40°-50°	2648.4	11.6
50°-60°	4757.6	20.9
60°-70°	6606.2	29.0
70°-80°	4791.9	21.0
80°-90°	346.4	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°	22806.0	100.0
0°-180°	22806.0	100.0

**Coefficient of Utilization**



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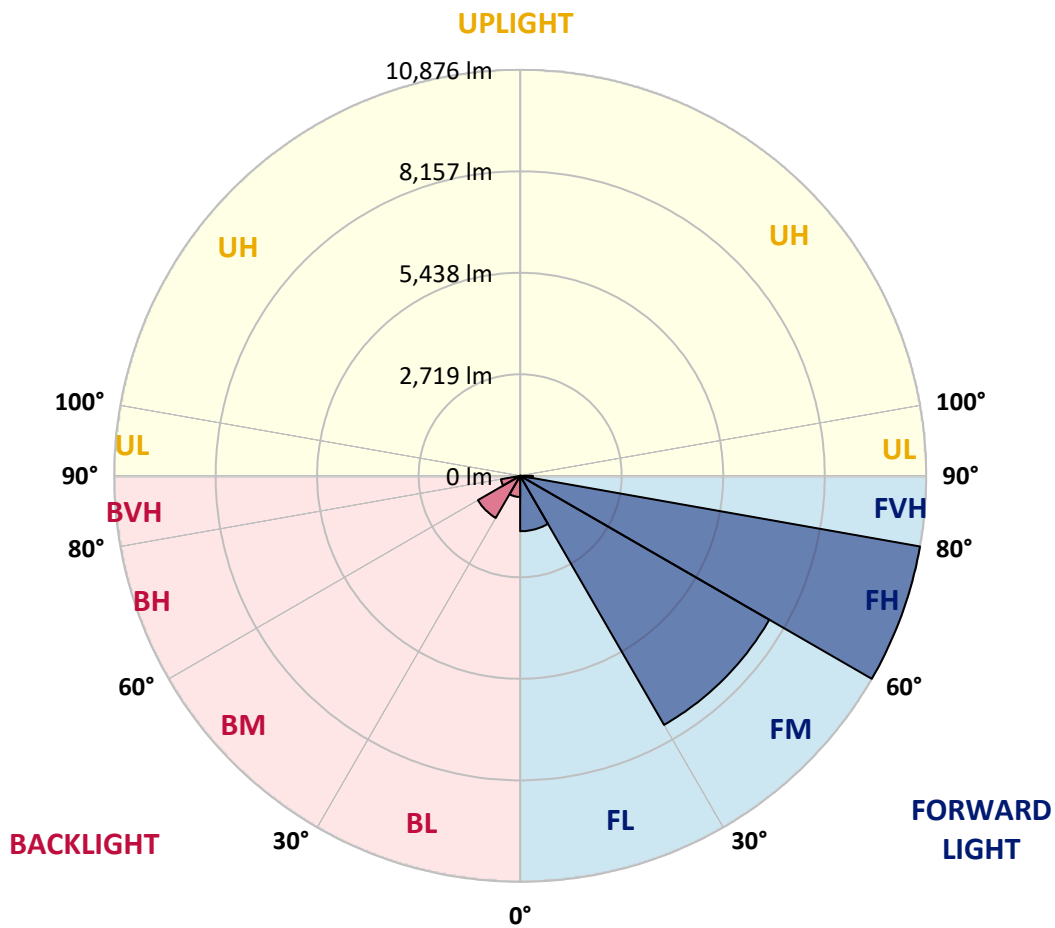
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.6	6.5			
FM (30°-60°)	7705.1	33.8			
FH (60°-80°)	10875.5	47.7			G4/12000
FVH (80°-90°)	343.5	1.5			G3/500
BL (0°-30°)	567.6	2.5	B2/1000		
BM (30°-60°)	1303.2	5.7	B2/2500		
BH (60°-80°)	522.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4
2.5°	2728.8	2733.5	2730.4	2711.7	2680.6	2663.5	2654.1	2623.0	2602.7	2566.9
5°	2979.5	2998.1	2987.2	2949.9	2890.7	2848.7	2836.2	2772.4	2714.8	2647.9
7.5°	3245.6	3255.0	3234.7	3186.5	3107.1	3035.5	3024.6	2935.9	2844.0	2741.3
10°	3476.0	3486.9	3455.8	3385.7	3295.5	3206.7	3191.2	3093.1	2984.1	2858.0
12.5°	3669.1	3680.0	3639.5	3555.4	3455.8	3364.0	3348.4	3245.6	3125.8	2985.7
15°	3815.4	3835.6	3781.1	3690.9	3583.4	3491.6	3483.8	3382.6	3265.9	3110.2
17.5°	3901.0	3921.2	3869.9	3760.9	3669.1	3591.2	3581.9	3497.8	3388.9	3239.4
20°	3915.0	3933.7	3879.2	3784.3	3708.0	3645.7	3641.0	3580.3	3500.9	3357.7
22.5°	3873.0	3896.3	3846.5	3770.2	3717.3	3684.6	3678.4	3644.2	3599.0	3477.6
25°	3829.4	3848.1	3810.7	3743.8	3715.8	3712.6	3717.3	3711.1	3701.7	3599.0
27.5°	3826.3	3846.5	3804.5	3740.7	3725.1	3757.8	3762.5	3792.0	3799.8	3709.5
30°	3852.7	3866.8	3826.3	3759.3	3751.6	3826.3	3827.8	3880.8	3893.2	3802.9
32.5°	3910.3	3925.9	3885.4	3787.4	3776.5	3880.8	3885.4	3955.5	3975.7	3902.6
35°	4045.8	4064.4	4017.7	3865.2	3826.3	3932.1	3946.1	4028.6	4069.1	4008.4
37.5°	4383.6	4329.1	4265.3	4022.4	3939.9	4013.1	4036.4	4132.9	4204.5	4134.5
40°	5222.6	5051.4	4852.1	4290.2	4139.2	4185.9	4204.5	4301.1	4399.1	4330.6
42.5°	6481.9	6279.6	5958.9	4906.6	4439.6	4463.0	4477.0	4561.0	4699.6	4645.1
45°	7604.3	7531.1	7204.2	5958.9	5001.6	4886.4	4903.5	4947.1	5151.0	5130.8
47.5°	8466.7	8424.7	8172.5	7166.9	5951.1	5404.7	5453.0	5473.2	5767.4	5839.0
50°	9129.8	9114.3	8888.6	8241.0	7191.8	6169.1	6186.2	6142.6	6583.1	6760.6
52.5°	9755.6	9808.5	9642.0	9238.8	8516.5	7170.0	7166.9	6961.4	7556.0	7823.8
55°	10320.7	10339.4	10356.5	10256.9	9849.0	8309.5	8279.9	7943.7	8684.6	8961.7
57.5°	10851.5	10859.3	11011.8	11215.8	11236.0	9533.0	9478.5	9075.4	9917.5	10115.2
60°	11208.0	11243.8	11566.0	12132.6	12380.1	10795.5	10765.9	10354.9	11172.2	11264.0
62.5°	10694.3	10912.2	11724.8	12848.7	13460.5	12194.9	12180.9	11794.8	12492.2	12417.5
65°	8656.6	9025.5	10454.6	13332.8	14520.6	13757.8	13778.0	13367.1	13848.1	13605.2
67.5°	6055.4	6444.6	8135.1	13371.7	15705.2	15593.1	15709.9	15065.4	15288.0	14743.2
70°	4187.4	4388.2	5488.8	12534.3	16628.3	18121.1	18118.0	17151.3	16720.1	15261.5
72.5°	2816.0	2920.3	3564.8	9944.0	15949.6	19623.3	19533.0	18745.3	17202.7	14273.1
75°	1187.7	1264.0	1650.1	5588.4	12618.3	17953.0	17708.6	16566.0	15284.9	11239.1
77.5°	376.7	409.4	650.7	2000.3	6950.5	13494.7	13236.3	10345.6	10244.4	5638.2
80°	179.0	208.6	365.8	803.2	2735.1	7339.7	7303.9	4693.3	4406.9	1522.4
82.5°	77.8	91.8	202.4	429.6	1223.5	2618.3	2671.2	1597.1	1321.6	577.5
85°	24.9	32.7	93.4	197.7	516.8	650.7	642.9	379.8	532.4	314.4
87.5°	0.0	0.0	31.1	45.1	52.9	37.4	42.0	32.7	147.9	87.2
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°
2498.4	0°	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4	2498.4
2529.6	2.5°	2510.9	2486.0	2442.4	2401.9	2366.1	2330.3	2308.5	2277.4	2274.3	2274.3
2570.1	5°	2528.0	2487.5	2409.7	2327.2	2232.3	2142.0	2051.7	1964.5	1936.5	1916.3
2635.4	7.5°	2577.8	2514.0	2391.0	2233.8	2053.2	1855.5	1717.0	1567.6	1510.0	1478.8
2722.6	10°	2649.4	2562.3	2375.5	2099.9	1807.3	1538.0	1340.3	1178.4	1116.1	1089.7
2817.6	12.5°	2728.8	2621.4	2347.4	1933.4	1538.0	1215.8	1022.7	948.0	938.7	938.7
2931.2	15°	2823.8	2693.0	2299.2	1737.2	1256.2	962.0	893.5	896.6	906.0	912.2
3041.7	17.5°	2921.9	2769.3	2222.9	1517.7	1007.2	865.5	867.1	871.7	879.5	885.7
3161.6	20°	3027.7	2845.6	2121.7	1284.2	863.9	837.5	842.2	846.8	853.1	856.2
3273.7	22.5°	3141.3	2917.2	2001.9	1055.4	815.7	814.1	815.7	820.4	828.1	828.1
3404.4	25°	3262.8	2996.6	1864.9	888.9	790.8	790.8	793.9	797.0	803.2	803.2
3530.5	27.5°	3387.3	3069.7	1720.1	801.7	769.0	767.4	767.4	772.1	775.2	776.8
3655.0	30°	3524.3	3155.4	1575.3	783.0	751.9	744.1	739.4	742.5	745.6	747.2
3785.8	32.5°	3664.4	3237.9	1446.1	790.8	734.7	720.7	705.2	702.1	702.1	708.3
3921.2	35°	3820.1	3328.1	1346.5	817.2	725.4	686.5	661.6	647.6	649.1	658.5
4083.1	37.5°	4006.9	3437.1	1273.4	840.6	719.2	647.6	607.1	590.0	579.1	590.0
4305.7	40°	4251.2	3597.5	1220.4	859.3	711.4	602.4	547.9	519.9	499.7	505.9
4651.3	42.5°	4610.8	3849.6	1200.2	860.8	694.3	549.5	487.2	449.9	420.3	421.9
5171.2	45°	5115.2	4248.1	1304.5	840.6	656.9	491.9	423.4	373.6	354.9	350.2
5948.0	47.5°	5806.4	4828.8	1545.8	798.6	602.4	435.9	361.1	319.1	305.1	297.3
6967.6	50°	6732.6	5574.4	1813.5	751.9	547.9	382.9	309.8	283.3	274.0	266.2
8177.2	52.5°	7806.7	6331.0	2033.0	705.2	493.5	336.2	277.1	261.5	253.7	247.5
9344.7	55°	8792.0	6852.4	2020.5	655.4	440.5	298.9	253.7	244.4	235.1	228.8
10350.3	57.5°	9405.4	6925.6	1665.6	600.9	379.8	269.3	231.9	225.7	214.8	207.0
11220.4	60°	9687.1	6508.4	1167.5	529.3	319.1	241.3	208.6	205.5	191.5	180.6
12043.9	62.5°	9738.5	5733.2	778.3	440.5	266.2	214.8	185.2	180.6	161.9	143.2
12713.3	65°	9529.9	4624.8	538.6	344.0	227.3	186.8	158.8	149.4	129.2	110.5
12872.1	67.5°	8869.9	3247.2	375.2	247.5	193.0	147.9	126.1	123.0	107.4	91.8
12062.6	70°	7660.3	1850.9	250.6	185.2	152.6	101.2	99.6	102.7	87.2	74.7
9855.2	72.5°	5873.3	846.8	155.7	135.4	104.3	68.5	79.4	80.9	66.9	56.0
6148.8	75°	3457.4	362.7	98.1	87.2	52.9	45.1	57.6	59.2	45.1	35.8
2247.8	77.5°	1176.8	137.0	62.3	51.4	26.5	24.9	37.4	37.4	24.9	14.0
451.4	80°	267.7	51.4	31.1	20.2	12.5	10.9	12.5	10.9	6.2	1.6
138.5	82.5°	76.3	20.2	12.5	7.8	4.7	4.7	1.6	0.0	0.0	0.0
48.3	85°	21.8	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
17.1	87.5°	9.3	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

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<u>180°</u>
2498.4
2282.1
1925.6
1483.5
1089.7
938.7
912.2
885.7
857.7
831.3
804.8
778.3
750.3
713.0
663.1
586.9
502.8
415.6
344.0
292.7
264.6
246.0
225.7
205.5
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