

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: P955160

Luminaire Tested: **GALN-SB8A-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955160  
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-SB8A-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

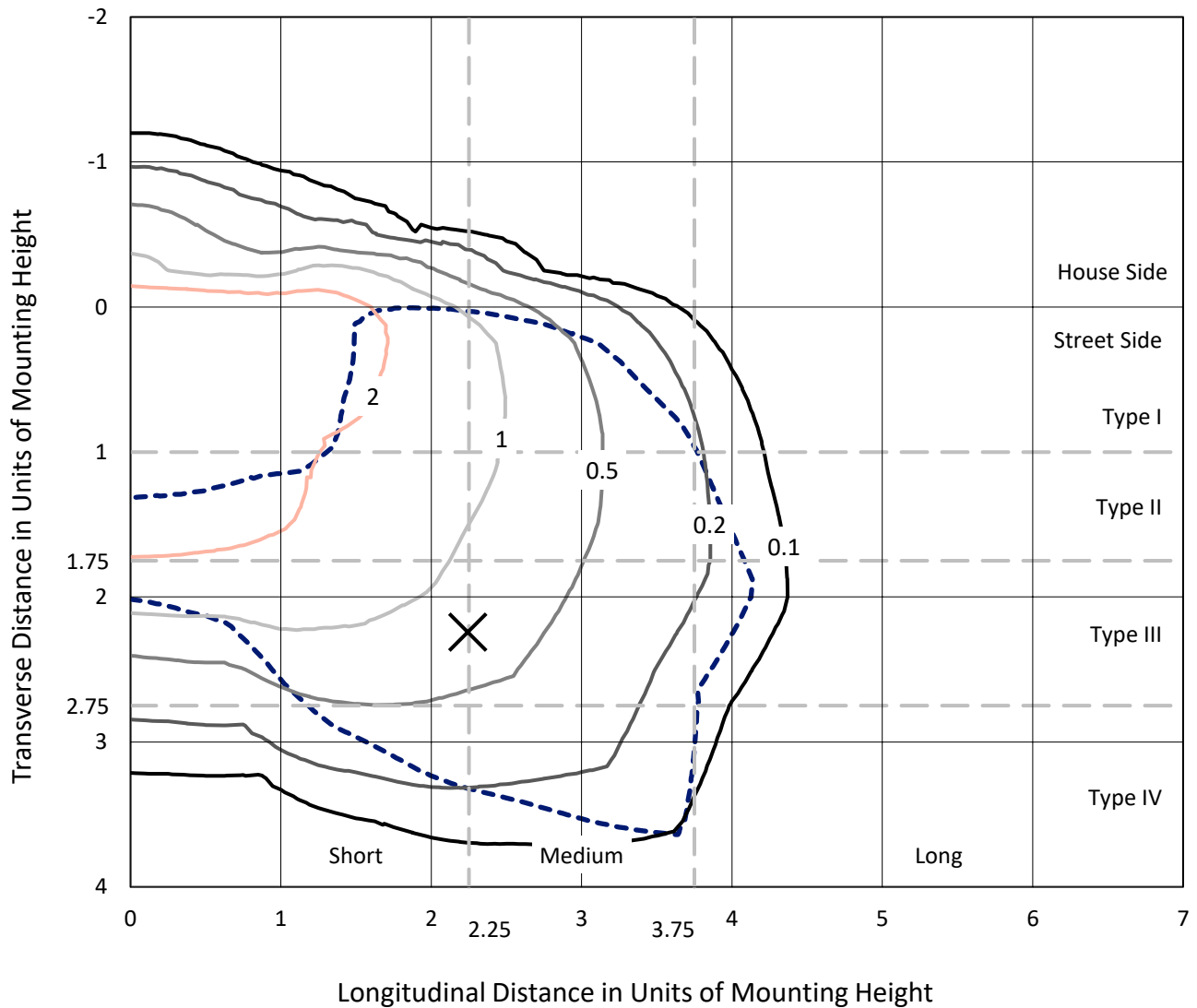
Lumens per Lamp: N/A  
Luminaire Lumens: 20247 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

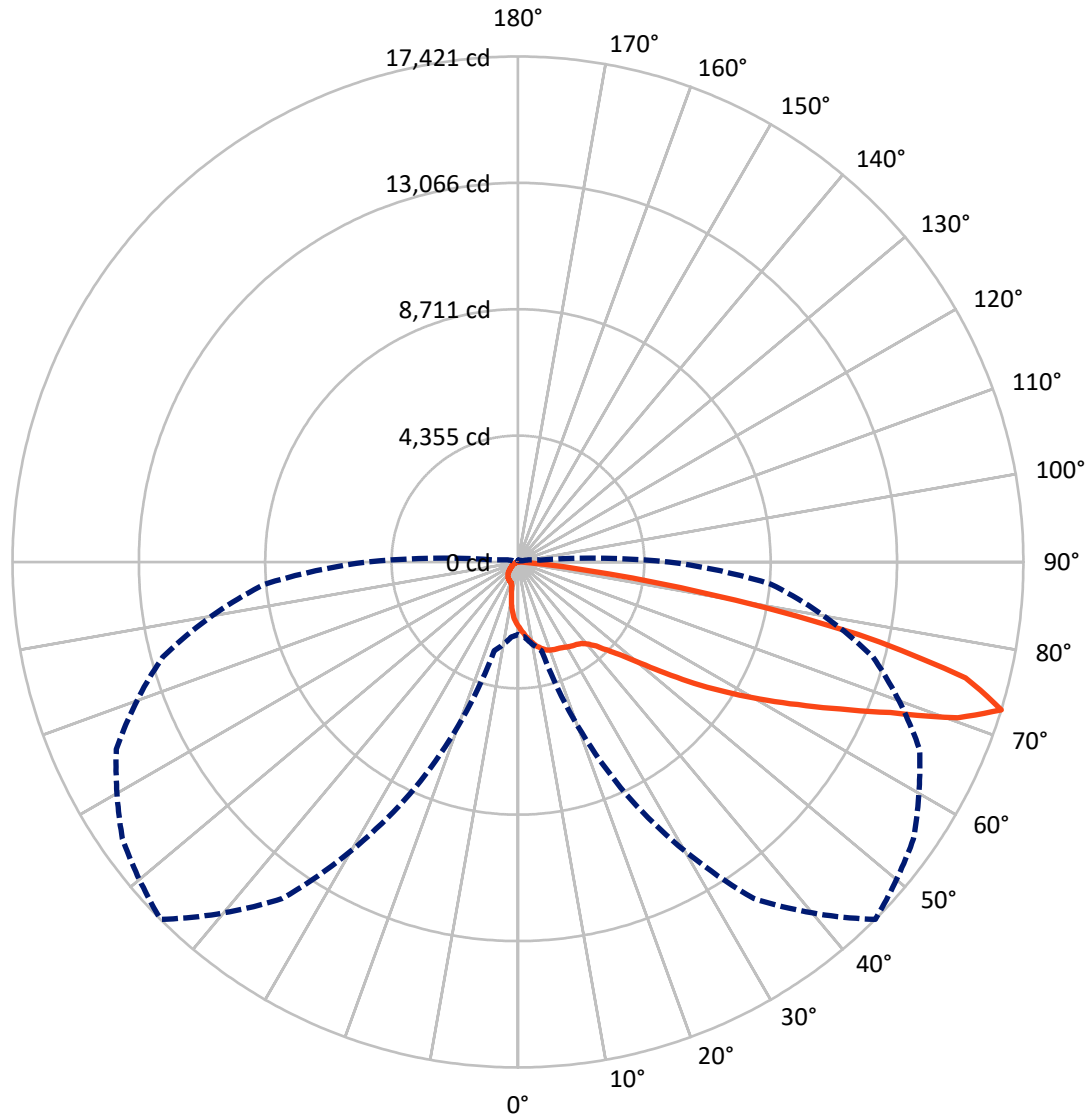
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2127.4	0.0	2127.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	18119.6	0.0	18119.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	20247.0	0.0	20247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	1.0
10°-20°	610.8	3.0
20°-30°	1003.0	5.0
30°-40°	1422.5	7.0
40°-50°	2351.3	11.6
50°-60°	4223.8	20.9
60°-70°	5864.9	29.0
70°-80°	4254.2	21.0
80°-90°	307.6	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°	20247.0	100.0
0°-180°	20247.0	100.0

**Coefficient of Utilization**



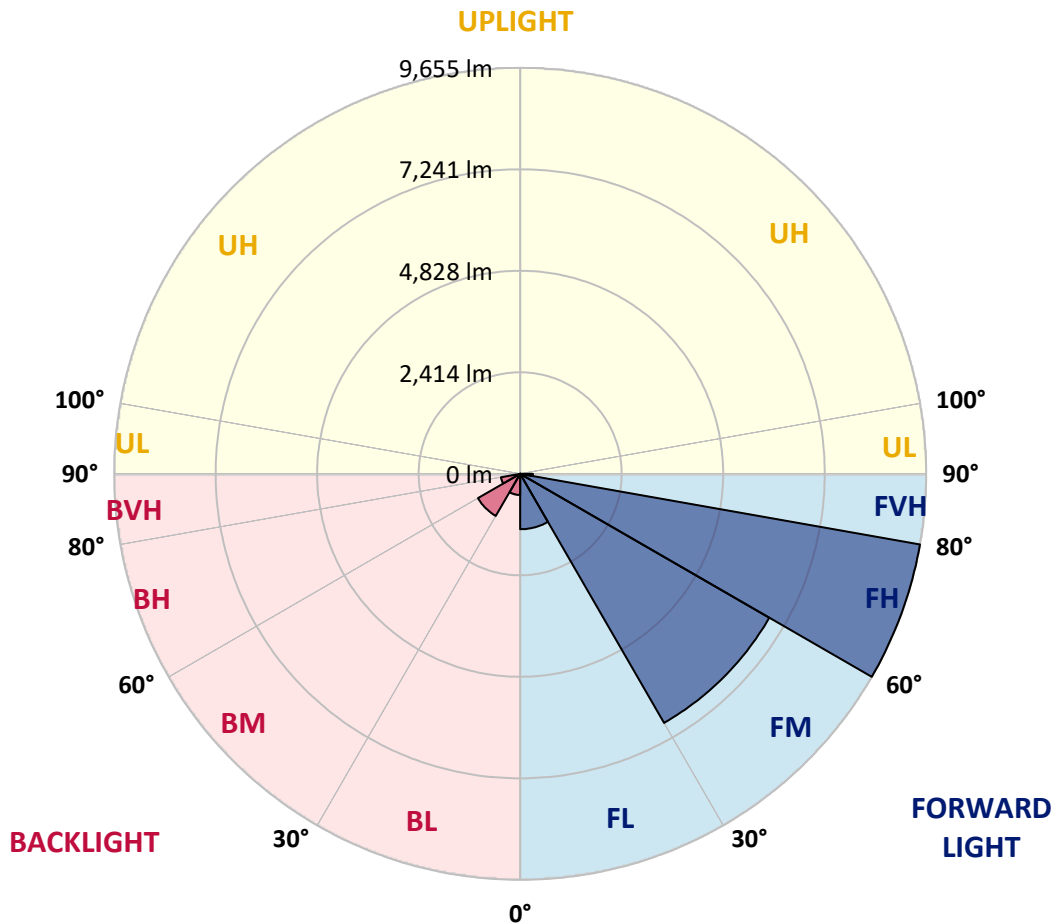
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1318.9	6.5			
FM (30°-60°)	6840.5	33.8			
FH (60°-80°)	9655.2	47.7			G4/12000
FVH (80°-90°)	305.0	1.5			G3/500
BL (0°-30°)	503.9	2.5	B2/1000		
BM (30°-60°)	1157.0	5.7	B2/2500		
BH (60°-80°)	463.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	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°	35°	45°	46°	55°	65°	75°
0°	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1
2.5°	2422.6	2426.8	2424.0	2407.4	2379.8	2364.6	2356.3	2328.7	2310.7	2278.9
5°	2645.1	2661.7	2652.0	2618.9	2566.4	2529.1	2518.0	2461.3	2410.2	2350.8
7.5°	2881.5	2889.8	2871.8	2828.9	2758.5	2694.9	2685.2	2606.4	2524.9	2433.7
10°	3086.0	3095.7	3068.0	3005.8	2925.7	2846.9	2833.1	2746.0	2649.3	2537.3
12.5°	3257.4	3267.0	3231.1	3156.5	3068.0	2986.5	2972.7	2881.5	2775.0	2650.7
15°	3387.3	3405.2	3356.9	3276.7	3181.4	3099.8	3092.9	3003.1	2899.4	2761.2
17.5°	3463.3	3481.2	3435.6	3338.9	3257.4	3188.3	3180.0	3105.3	3008.6	2875.9
20°	3475.7	3492.3	3443.9	3359.6	3291.9	3236.6	3232.5	3178.6	3108.1	2981.0
22.5°	3438.4	3459.1	3414.9	3347.2	3300.2	3271.2	3265.7	3235.3	3195.2	3087.4
25°	3399.7	3416.3	3383.1	3323.7	3298.8	3296.1	3300.2	3294.7	3286.4	3195.2
27.5°	3396.9	3414.9	3377.6	3320.9	3307.1	3336.1	3340.3	3366.5	3373.4	3293.3
30°	3420.4	3432.9	3396.9	3337.5	3330.6	3396.9	3398.3	3445.3	3456.4	3376.2
32.5°	3471.6	3485.4	3449.5	3362.4	3352.7	3445.3	3449.5	3511.6	3529.6	3464.7
35°	3591.8	3608.4	3566.9	3431.5	3396.9	3490.9	3503.4	3576.6	3612.5	3558.6
37.5°	3891.7	3843.3	3786.7	3571.1	3497.8	3562.8	3583.5	3669.2	3732.8	3670.6
40°	4636.6	4484.6	4307.7	3808.8	3674.7	3716.2	3732.8	3818.5	3905.5	3844.7
42.5°	5754.6	5575.0	5290.3	4356.0	3941.4	3962.2	3974.6	4049.2	4172.2	4123.9
45°	6751.0	6686.1	6395.9	5290.3	4440.3	4338.1	4353.3	4392.0	4573.0	4555.1
47.5°	7516.7	7479.4	7255.5	6362.7	5283.4	4798.3	4841.1	4859.1	5120.3	5183.9
50°	8105.4	8091.6	7891.2	7316.3	6384.8	5476.8	5492.0	5453.4	5844.5	6002.0
52.5°	8661.0	8708.0	8560.1	8202.1	7560.9	6365.5	6362.7	6180.3	6708.2	6945.9
55°	9162.6	9179.2	9194.4	9106.0	8743.9	7377.1	7350.8	7052.3	7710.1	7956.1
57.5°	9633.9	9640.8	9776.2	9957.3	9975.2	8463.3	8415.0	8057.0	8804.7	8980.2
60°	9950.4	9982.1	10268.2	10771.3	10991.0	9584.1	9557.9	9193.0	9918.6	10000.1
62.5°	9494.3	9687.8	10409.2	11407.0	11950.1	10826.5	10814.1	10471.4	11090.5	11024.2
65°	7685.3	8012.8	9281.5	11836.8	12891.2	12214.1	12232.0	11867.2	12294.2	12078.6
67.5°	5376.0	5721.5	7222.3	11871.3	13942.9	13843.4	13947.1	13374.9	13572.6	13088.9
70°	3717.6	3895.8	4872.9	11127.8	14762.5	16087.8	16085.0	15226.8	14844.0	13549.1
72.5°	2500.0	2592.6	3164.8	8828.2	14159.9	17421.4	17341.3	16642.0	15272.4	12671.5
75°	1054.5	1122.2	1464.9	4961.4	11202.5	15938.5	15721.6	14707.2	13569.8	9978.0
77.5°	334.4	363.5	577.7	1775.9	6170.6	11980.5	11751.1	9184.7	9094.9	5005.6
80°	158.9	185.2	324.8	713.1	2428.2	6516.1	6484.3	4166.7	3912.4	1351.6
82.5°	69.1	81.5	179.7	381.4	1086.2	2324.5	2371.5	1417.9	1173.3	512.7
85°	22.1	29.0	82.9	175.5	458.8	577.7	570.8	337.2	472.6	279.2
87.5°	0.0	0.0	27.6	40.1	47.0	33.2	37.3	29.0	131.3	77.4
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°
2218.1	0°	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1	2218.1
2245.7	2.5°	2229.2	2207.0	2168.4	2132.4	2100.6	2068.8	2049.5	2021.9	2019.1	2019.1
2281.7	5°	2244.4	2208.4	2139.3	2066.1	1981.8	1901.6	1821.5	1744.1	1719.2	1701.2
2339.7	7.5°	2288.6	2231.9	2122.7	1983.2	1822.9	1647.3	1524.3	1391.7	1340.5	1312.9
2417.1	10°	2352.2	2274.8	2108.9	1864.3	1604.5	1365.4	1189.9	1046.2	990.9	967.4
2501.4	12.5°	2422.6	2327.3	2084.0	1716.4	1365.4	1079.3	908.0	841.6	833.3	833.3
2602.3	15°	2506.9	2390.9	2041.2	1542.3	1115.3	854.1	793.3	796.0	804.3	809.8
2700.4	17.5°	2594.0	2458.6	1973.5	1347.4	894.2	768.4	769.8	773.9	780.8	786.4
2806.8	20°	2688.0	2526.3	1883.7	1140.1	767.0	743.5	747.7	751.8	757.3	760.1
2906.3	22.5°	2788.9	2589.9	1777.2	937.0	724.2	722.8	724.2	728.3	735.2	735.2
3022.4	25°	2896.7	2660.3	1655.6	789.1	702.1	702.1	704.8	707.6	713.1	713.1
3134.4	27.5°	3007.2	2725.3	1527.1	711.7	682.7	681.3	681.3	685.5	688.2	689.6
3244.9	30°	3128.8	2801.3	1398.6	695.1	667.5	660.6	656.4	659.2	662.0	663.4
3361.0	32.5°	3253.2	2874.5	1283.9	702.1	652.3	639.9	626.0	623.3	623.3	628.8
3481.2	35°	3391.4	2954.7	1195.4	725.5	644.0	609.5	587.3	574.9	576.3	584.6
3625.0	37.5°	3557.3	3051.4	1130.5	746.3	638.5	574.9	539.0	523.8	514.1	523.8
3822.6	40°	3774.2	3193.8	1083.5	762.9	631.6	534.8	486.5	461.6	443.6	449.1
4129.4	42.5°	4093.5	3417.7	1065.5	764.2	616.4	487.8	432.6	399.4	373.1	374.5
4591.0	45°	4541.2	3771.5	1158.1	746.3	583.2	436.7	375.9	331.7	315.1	310.9
5280.6	47.5°	5154.8	4286.9	1372.3	709.0	534.8	387.0	320.6	283.3	270.9	264.0
6185.8	50°	5977.1	4948.9	1610.0	667.5	486.5	340.0	275.0	251.5	243.2	236.3
7259.6	52.5°	6930.7	5620.6	1804.9	626.0	438.1	298.5	246.0	232.2	225.3	219.7
8296.1	55°	7805.5	6083.5	1793.8	581.8	391.1	265.3	225.3	217.0	208.7	203.2
9188.9	57.5°	8350.0	6148.5	1478.7	533.5	337.2	239.1	205.9	200.4	190.7	183.8
9961.4	60°	8600.2	5778.1	1036.5	469.9	283.3	214.2	185.2	182.4	170.0	160.3
10692.5	62.5°	8645.8	5089.9	691.0	391.1	236.3	190.7	164.5	160.3	143.7	127.1
11286.8	65°	8460.6	4105.9	478.2	305.4	201.8	165.8	141.0	132.7	114.7	98.1
11427.7	67.5°	7874.6	2882.8	333.1	219.7	171.4	131.3	111.9	109.2	95.4	81.5
10709.1	70°	6800.8	1643.2	222.5	164.5	135.4	89.8	88.4	91.2	77.4	66.3
8749.4	72.5°	5214.3	751.8	138.2	120.2	92.6	60.8	70.5	71.9	59.4	49.8
5458.9	75°	3069.4	322.0	87.1	77.4	47.0	40.1	51.1	52.5	40.1	31.8
1995.6	77.5°	1044.8	121.6	55.3	45.6	23.5	22.1	33.2	33.2	22.1	12.4
400.8	80°	237.7	45.6	27.6	18.0	11.1	9.7	11.1	9.7	5.5	1.4
123.0	82.5°	67.7	18.0	11.1	6.9	4.1	4.1	1.4	0.0	0.0	0.0
42.8	85°	19.3	8.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	8.3	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>
2218.1
2026.0
1709.5
1317.0
967.4
833.3
809.8
786.4
761.5
738.0
714.5
691.0
666.1
633.0
588.7
521.0
446.4
369.0
305.4
259.8
234.9
218.4
200.4
182.4
157.5
118.9
92.6
77.4
60.8
44.2
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