

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: P943635

Luminaire Tested: **GALN-SB8A-950-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-950-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25002 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

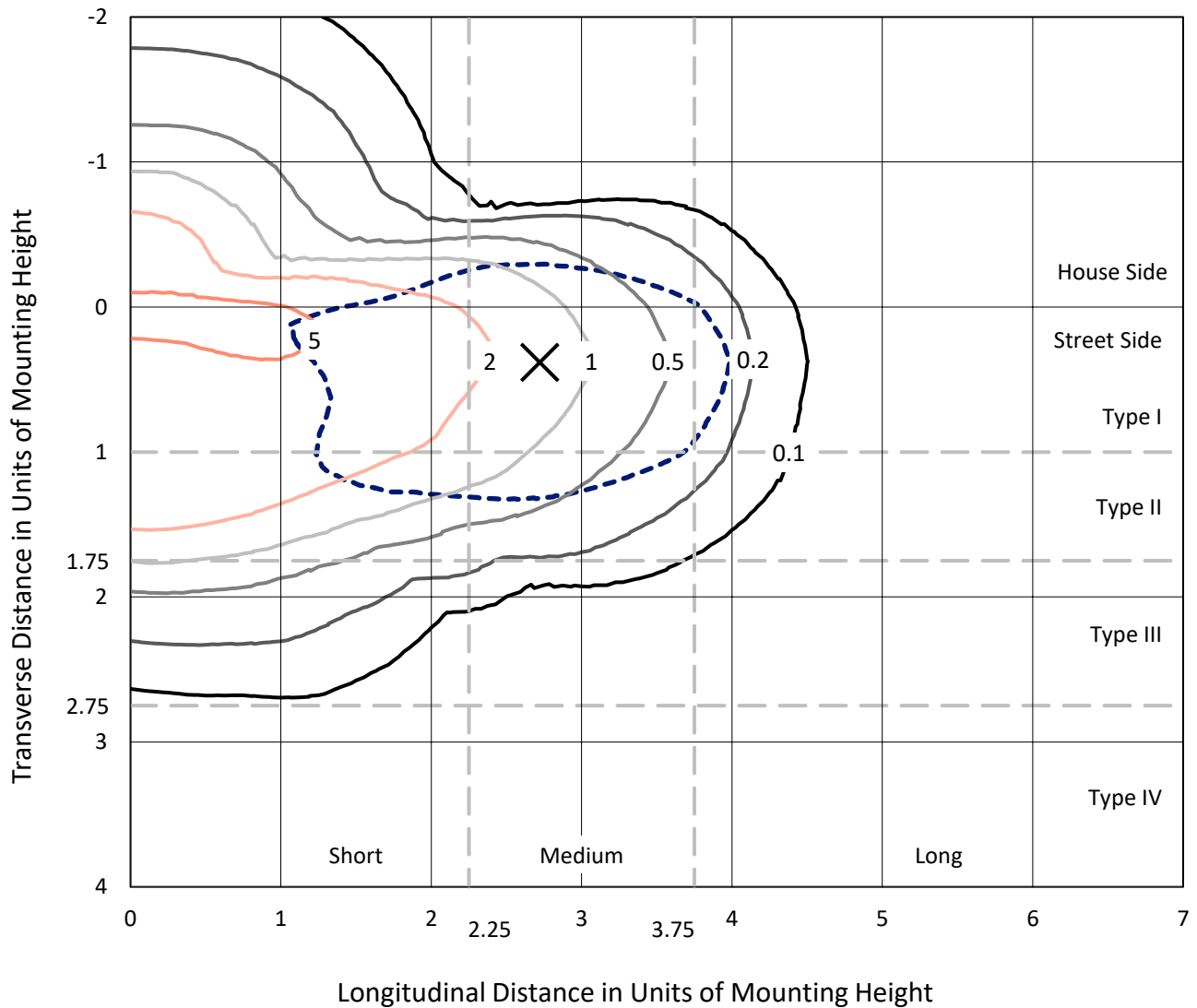
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

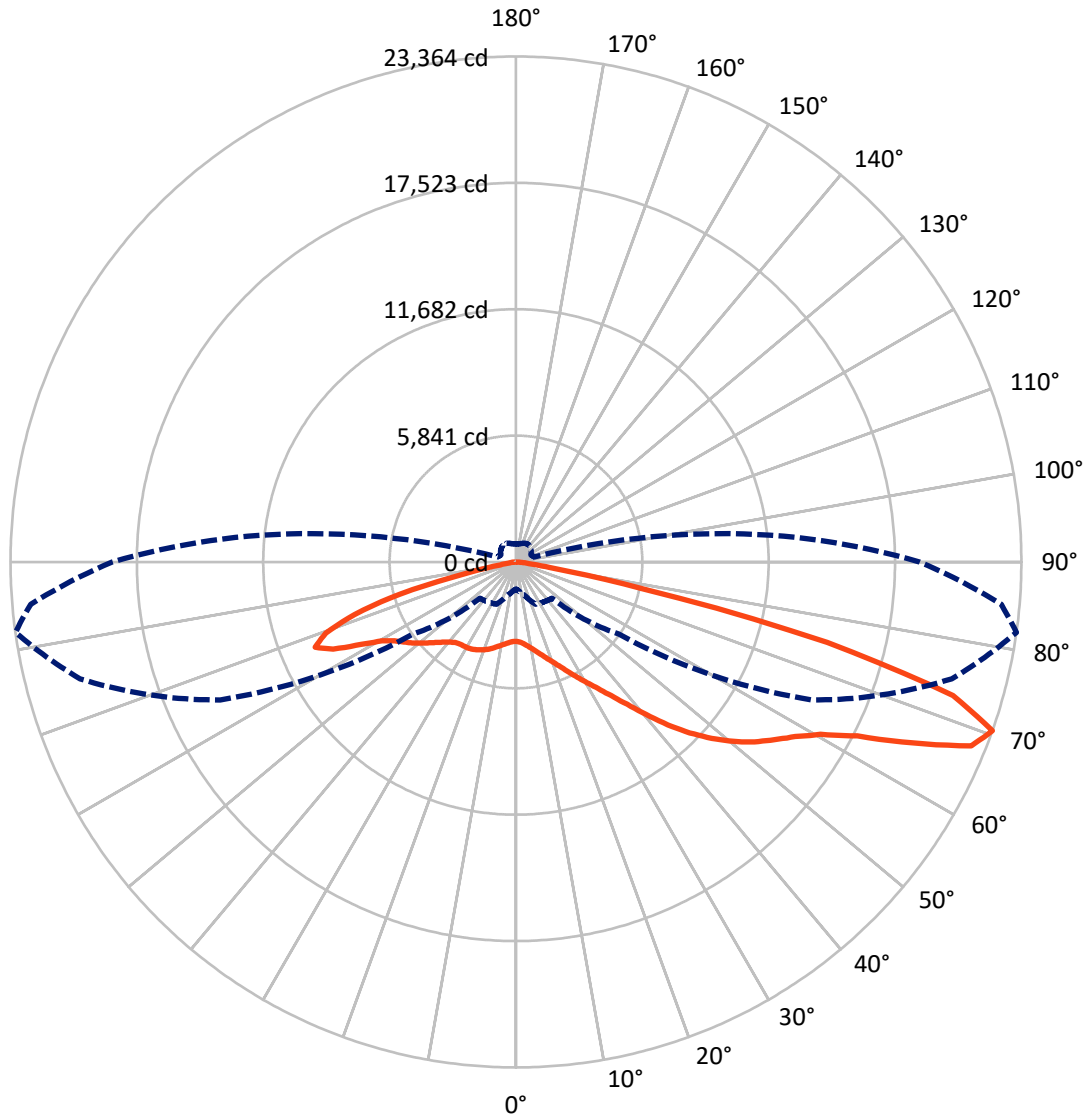
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6163.6	0.0	6163.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	18838.4	0.0	18838.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	25002.0	0.0	25002.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.1	1.4
10°-20°	994.4	4.0
20°-30°	1663.5	6.7
30°-40°	2598.8	10.4
40°-50°	4138.8	16.6
50°-60°	5759.7	23.0
60°-70°	6024.9	24.1
70°-80°	3148.9	12.6
80°-90°	327.0	1.3
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°	25002.0	100.0
0°-180°	25002.0	100.0

**Coefficient of Utilization**



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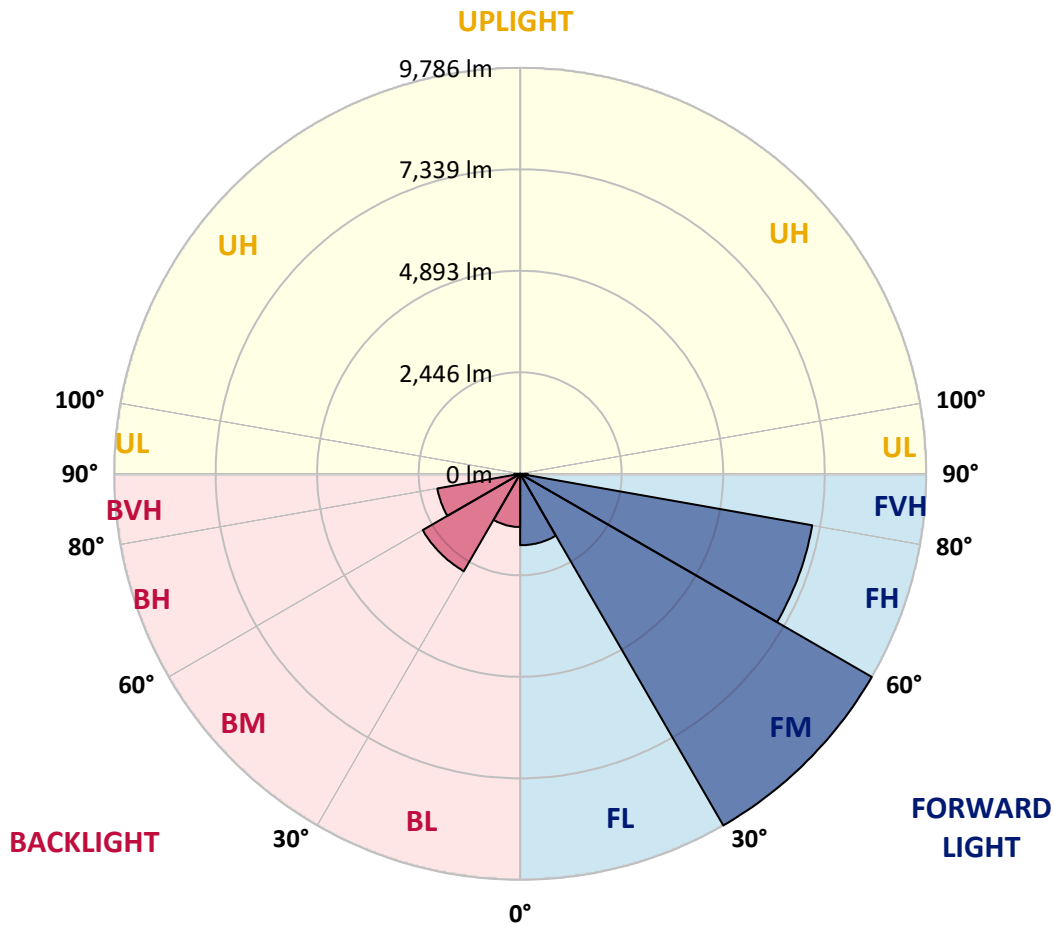
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.7	6.9			
FM (30°-60°)	9785.5	39.1			
FH (60°-80°)	7148.2	28.6			G3/7500
FVH (80°-90°)	183.0	0.7			G2/225
BL (0°-30°)	1282.3	5.1	B3/2500		
BM (30°-60°)	2711.7	10.8	B3/5000		
BH (60°-80°)	2025.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	143.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6
2.5°	3753.2	3774.4	3767.8	3761.1	3761.1	3751.8	3750.5	3737.2	3726.6	3709.4
5°	3800.9	3823.5	3820.8	3826.1	3843.4	3847.4	3851.3	3843.4	3822.2	3800.9
7.5°	3758.5	3783.7	3791.6	3823.5	3876.5	3924.3	3960.1	3974.7	3954.8	3924.3
10°	3615.2	3643.1	3670.9	3746.5	3840.7	3953.5	4049.0	4106.1	4102.1	4072.9
12.5°	3324.7	3353.8	3413.5	3560.8	3733.3	3932.3	4110.0	4229.4	4270.6	4249.3
15°	3092.5	3117.7	3162.8	3314.0	3538.2	3840.7	4132.6	4364.8	4469.6	4457.6
17.5°	3085.8	3096.5	3124.3	3196.0	3368.4	3697.4	4108.7	4497.4	4697.8	4696.4
20°	3202.6	3206.6	3222.5	3237.1	3335.3	3588.7	4047.7	4607.5	4953.8	4953.8
22.5°	3364.5	3361.8	3377.7	3364.5	3412.2	3579.4	4009.2	4704.4	5239.0	5260.3
25°	3607.2	3594.0	3590.0	3559.5	3568.8	3665.6	4051.7	4814.5	5577.3	5621.1
27.5°	3930.9	3909.7	3895.1	3824.8	3800.9	3843.4	4181.7	4947.2	5954.1	6029.7
30°	4352.8	4314.4	4293.1	4171.1	4084.8	4091.5	4378.0	5123.6	6348.1	6470.2
32.5°	4928.6	4868.9	4811.9	4611.5	4453.7	4401.9	4631.4	5367.7	6775.3	6970.4
35°	5573.4	5525.6	5464.6	5155.5	4912.7	4793.3	4973.7	5708.7	7275.5	7584.6
37.5°	6194.3	6153.1	6182.3	5765.7	5452.6	5278.8	5422.1	6166.4	7892.4	8348.8
40°	6836.4	6804.5	6808.5	6410.5	6045.7	5850.6	5966.1	6740.8	8599.5	9257.5
42.5°	7534.2	7510.3	7430.7	7077.8	6667.9	6486.1	6592.3	7404.2	9358.4	10292.4
45°	8315.6	8301.0	8226.7	7822.1	7352.4	7148.1	7291.4	8136.5	10121.2	11266.1
47.5°	8990.9	9002.8	8993.5	8652.6	8165.7	7865.9	8037.0	8900.7	10831.0	12181.5
50°	9315.9	9378.3	9469.8	9363.7	9061.2	8756.1	8789.2	9638.3	11507.6	13039.9
52.5°	9146.1	9264.2	9513.6	9683.4	9800.2	9736.5	9647.6	10370.6	12144.4	13814.7
55°	8513.3	8679.1	9093.0	9503.0	10098.7	10561.7	10678.4	11182.6	12765.3	14496.6
57.5°	7360.4	7629.7	8001.2	8830.4	9833.3	10961.0	11880.4	12308.9	13423.3	15224.9
60°	5383.7	5744.5	6206.2	7440.0	8904.6	10747.4	12903.3	14038.9	14358.6	16168.2
62.5°	3445.4	3668.3	4092.8	5255.0	6938.5	9652.9	13216.3	16201.4	15944.0	17715.1
65°	2358.8	2502.1	2890.8	3543.6	4485.5	7185.3	12377.9	17822.6	18462.0	20166.8
67.5°	1714.1	1822.9	2154.5	2726.3	2922.7	4252.0	9605.1	17748.3	20909.7	22692.8
70°	1249.7	1326.7	1605.3	2154.5	2248.7	2365.5	5818.8	15087.0	20856.7	23364.1
72.5°	926.0	979.1	1166.1	1671.6	1820.2	1597.3	2880.2	10965.0	17922.1	21132.6
75°	670.0	709.8	847.7	1278.9	1456.7	1216.6	1436.8	6407.8	12501.3	14865.4
77.5°	512.1	542.6	632.8	936.6	1166.1	912.8	891.5	2947.9	5927.6	5956.8
80°	411.3	431.2	480.3	659.4	894.2	683.2	581.1	1190.0	1873.3	1585.4
82.5°	302.5	335.6	406.0	463.0	639.5	471.0	354.2	601.0	712.4	612.9
85°	172.5	195.0	245.4	331.7	408.6	287.9	203.0	266.7	331.7	272.0
87.5°	61.0	79.6	86.2	130.0	177.8	119.4	78.3	76.9	108.8	80.9
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°
3665.6	0°	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6	3665.6
3705.4	2.5°	3692.1	3685.5	3659.0	3623.2	3586.0	3550.2	3538.2	3513.0	3495.8	3486.5
3791.6	5°	3766.4	3745.2	3682.9	3603.3	3519.7	3429.5	3365.8	3307.4	3264.9	3225.1
3909.7	7.5°	3872.6	3835.4	3728.0	3588.7	3440.1	3290.2	3178.7	3093.8	3036.8	2999.6
4047.7	10°	3995.9	3938.9	3774.4	3566.1	3336.6	3121.7	2990.3	2917.4	2881.5	2861.6
4205.6	12.5°	4137.9	4057.0	3822.2	3514.4	3178.7	2933.3	2843.1	2821.8	2823.2	2824.5
4404.6	15°	4313.0	4200.3	3860.6	3401.6	2973.1	2788.7	2772.8	2807.2	2843.1	2860.3
4630.1	17.5°	4510.7	4351.5	3867.3	3215.9	2771.4	2695.8	2746.2	2820.5	2874.9	2898.8
4882.2	20°	4723.0	4505.4	3819.5	2953.2	2605.6	2620.2	2710.4	2805.9	2865.6	2896.1
5170.1	22.5°	4965.7	4669.9	3705.4	2677.2	2470.3	2537.9	2644.1	2736.9	2799.3	2829.8
5508.4	25°	5243.0	4854.3	3526.3	2445.1	2353.5	2445.1	2551.2	2628.1	2678.6	2706.4
5886.5	27.5°	5550.8	5046.7	3287.5	2260.7	2251.4	2349.5	2437.1	2496.8	2523.3	2544.6
6288.4	30°	5859.9	5221.8	2998.3	2121.4	2162.5	2255.3	2317.7	2344.2	2352.2	2356.2
6736.9	32.5°	6194.3	5373.0	2694.5	2005.9	2077.6	2163.8	2201.0	2212.9	2175.7	2150.5
7280.8	35°	6598.9	5534.9	2397.3	1914.4	1994.0	2068.3	2080.2	2069.6	2025.8	1974.1
7962.7	37.5°	7099.0	5736.5	2159.8	1849.4	1915.7	1964.8	1950.2	1947.6	1951.5	1890.5
8782.6	40°	7712.0	5999.2	1986.0	1799.0	1852.0	1862.7	1821.5	1844.1	1864.0	1771.1
9682.1	42.5°	8392.6	6316.3	1875.9	1764.5	1799.0	1773.8	1710.1	1735.3	1732.6	1610.6
10585.5	45°	9086.4	6661.2	1837.4	1739.3	1749.9	1699.5	1629.2	1635.8	1580.1	1470.0
11451.9	47.5°	9776.3	7031.4	1861.3	1718.0	1688.9	1631.8	1577.4	1548.2	1466.0	1383.7
12282.4	50°	10452.9	7420.1	1948.9	1675.6	1605.3	1572.1	1532.3	1480.6	1393.0	1322.7
13067.8	52.5°	11080.4	7811.5	2047.1	1605.3	1500.5	1520.4	1495.2	1435.5	1349.2	1277.6
13810.7	55°	11674.7	8202.8	2085.5	1508.4	1402.3	1475.3	1460.7	1350.6	1247.1	1188.7
14588.1	57.5°	12322.2	8673.8	2043.1	1385.0	1322.7	1423.5	1367.8	1245.7	1186.0	1142.3
15600.4	60°	13219.0	9412.8	1951.5	1232.5	1247.1	1346.6	1251.1	1200.6	1135.6	1086.5
17118.1	62.5°	14708.9	10791.2	1804.3	1081.2	1158.2	1232.5	1195.3	1144.9	1078.6	1030.8
19713.1	65°	16911.1	12706.9	1527.0	963.2	1058.7	1121.0	1135.6	1085.2	1016.2	965.8
21987.0	67.5°	18768.5	13908.9	1155.5	865.0	956.5	1030.8	1072.0	1022.9	949.9	900.8
22519.0	70°	18666.3	13035.9	882.2	768.1	866.3	941.9	995.0	956.5	878.3	831.8
20454.7	72.5°	16579.5	10905.3	713.8	670.0	774.8	849.1	912.8	883.6	804.0	758.9
14984.8	75°	12180.2	7741.2	570.5	570.5	660.7	752.2	822.5	804.0	731.0	699.2
6291.1	77.5°	5134.2	3247.7	447.1	473.6	549.2	646.1	733.7	740.3	676.6	716.4
1663.7	80°	1365.1	895.5	341.0	372.8	431.2	533.3	638.1	635.5	566.5	529.3
618.2	82.5°	520.1	352.9	242.8	262.7	311.8	408.6	505.5	521.4	452.4	391.4
242.8	85°	200.3	151.2	149.9	157.9	181.8	270.6	382.1	395.3	341.0	289.2
67.7	87.5°	51.7	45.1	55.7	53.1	83.6	144.6	218.9	226.9	208.3	120.7
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>
3665.6
3497.1
3241.1
3007.6
2866.9
2827.1
2859.0
2904.1
2904.1
2837.8
2714.4
2552.5
2365.5
2158.5
1976.7
1894.5
1773.8
1609.3
1473.9
1383.7
1317.4
1278.9
1183.4
1138.3
1083.9
1030.8
968.5
902.1
835.8
758.9
689.9
650.1
492.2
391.4
298.5
172.5
0.0

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