

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: P942945

Luminaire Tested: **GALN-SB7A-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942945  
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-SB7A-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22905 lumens  
Efficiency: N/A  
Efficacy: 115.0 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

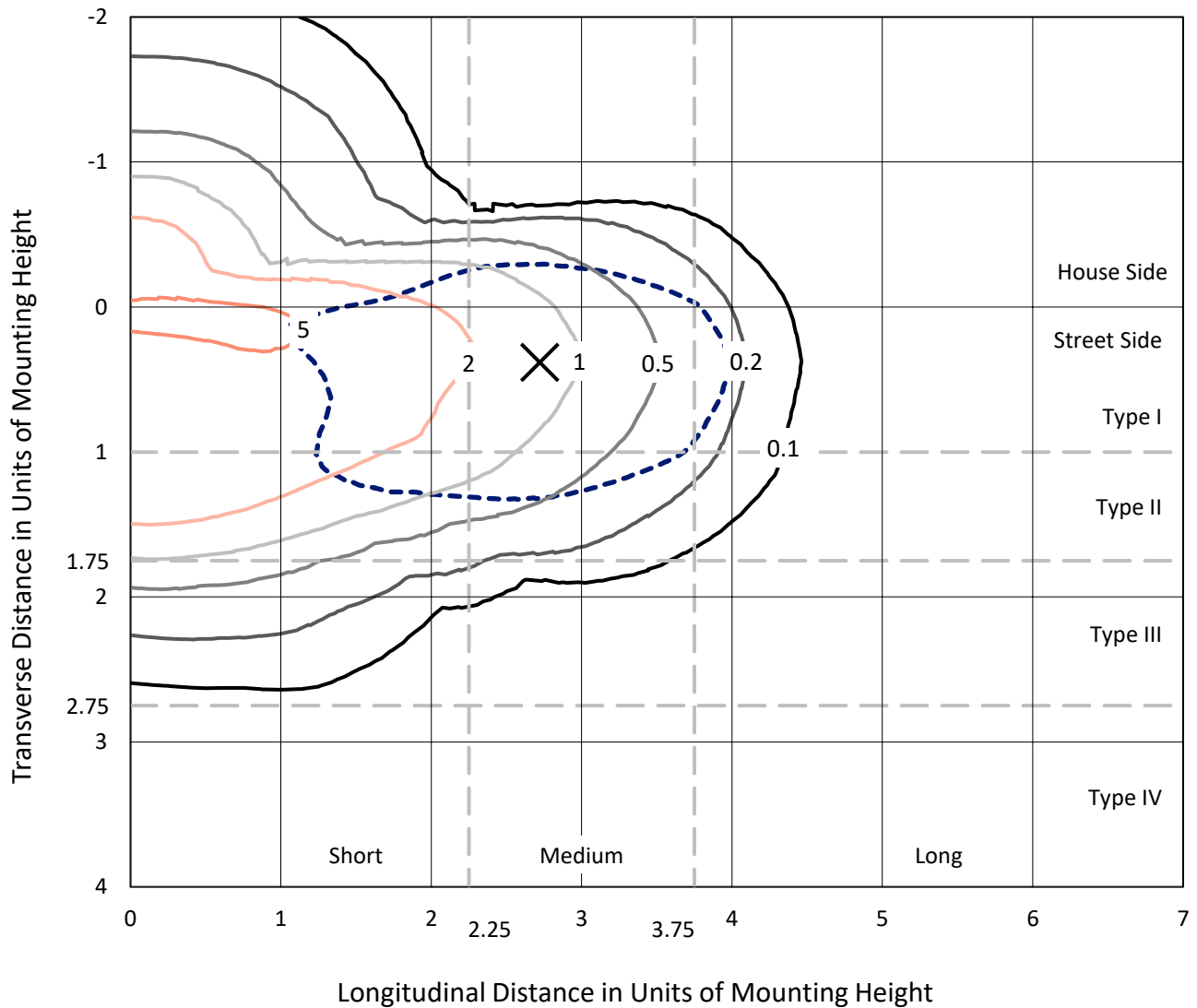
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

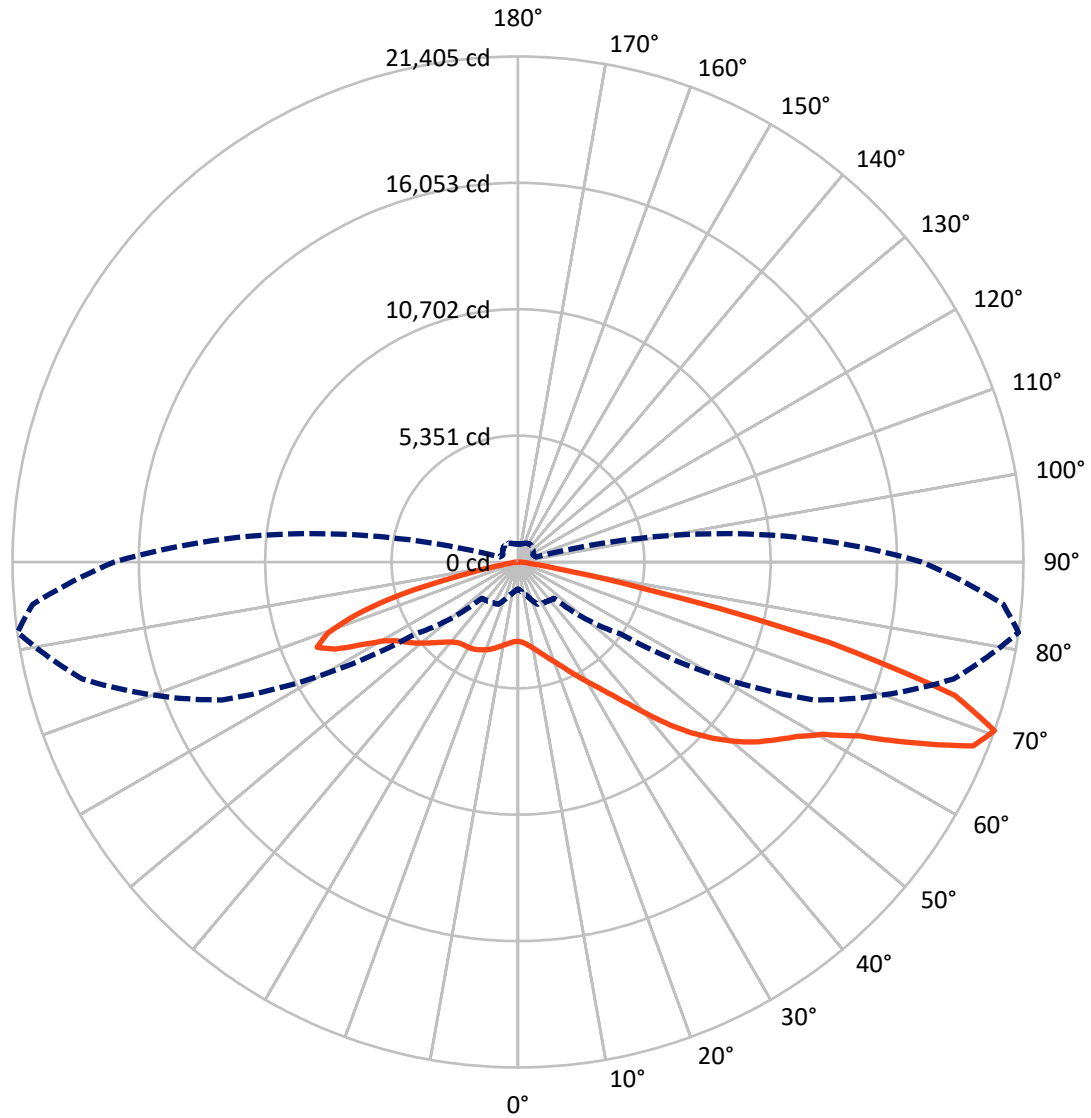
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5646.6	0.0	5646.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	17258.4	0.0	17258.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	22905.0	0.0	22905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.1	1.4
10°-20°	911.0	4.0
20°-30°	1523.9	6.7
30°-40°	2380.8	10.4
40°-50°	3791.7	16.6
50°-60°	5276.6	23.0
60°-70°	5519.6	24.1
70°-80°	2884.8	12.6
80°-90°	299.6	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°	22905.0	100.0
0°-180°	22905.0	100.0

**Coefficient of Utilization**



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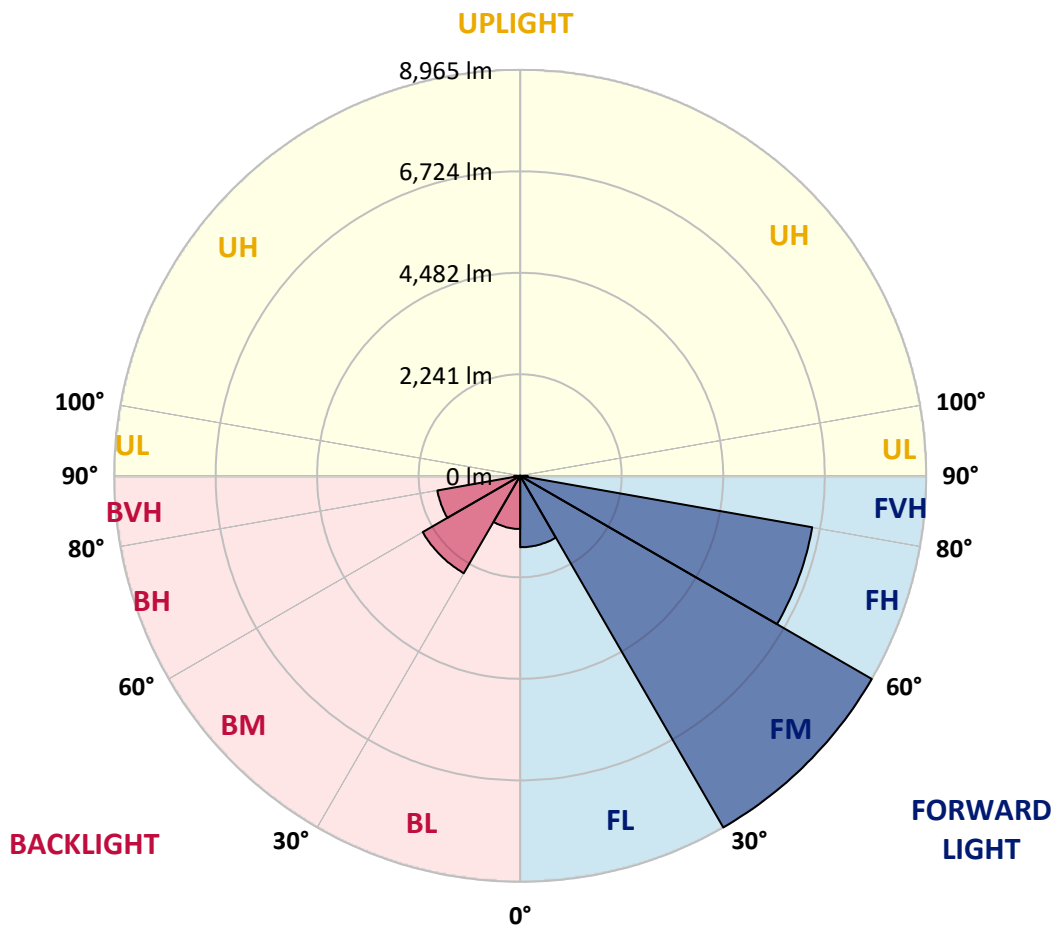
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.3	6.9			
FM (30°-60°)	8964.8	39.1			
FH (60°-80°)	6548.6	28.6			G3/7500
FVH (80°-90°)	167.7	0.7			G2/225
BL (0°-30°)	1174.7	5.1	B3/2500		
BM (30°-60°)	2484.3	10.8	B2/2500		
BH (60°-80°)	1855.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	131.9	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°	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2
2.5°	3438.4	3457.8	3451.7	3445.7	3445.7	3437.2	3435.9	3423.8	3414.1	3398.3
5°	3482.1	3502.8	3500.4	3505.2	3521.0	3524.7	3528.3	3521.0	3501.6	3482.1
7.5°	3443.2	3466.3	3473.6	3502.8	3551.4	3595.2	3628.0	3641.3	3623.1	3595.2
10°	3312.0	3337.5	3363.0	3432.3	3518.6	3621.9	3709.4	3761.7	3758.0	3731.3
12.5°	3045.8	3072.5	3127.2	3262.1	3420.1	3602.5	3765.3	3874.7	3912.4	3892.9
15°	2833.1	2856.2	2897.5	3036.1	3241.5	3518.6	3786.0	3998.7	4094.7	4083.8
17.5°	2827.0	2836.8	2862.3	2927.9	3085.9	3387.3	3764.1	4120.2	4303.7	4302.5
20°	2934.0	2937.6	2952.2	2965.6	3055.5	3287.7	3708.2	4221.1	4538.3	4538.3
22.5°	3082.3	3079.8	3094.4	3082.3	3126.0	3279.2	3672.9	4309.8	4799.6	4819.1
25°	3304.7	3292.5	3288.9	3260.9	3269.4	3358.2	3711.8	4410.7	5109.6	5149.7
27.5°	3601.2	3581.8	3568.4	3504.0	3482.1	3521.0	3831.0	4532.2	5454.7	5524.0
30°	3987.7	3952.5	3933.0	3821.2	3742.2	3748.3	4010.8	4693.9	5815.7	5927.5
32.5°	4515.2	4460.5	4408.3	4224.7	4080.1	4032.7	4243.0	4917.5	6207.1	6385.7
35°	5105.9	5062.2	5006.2	4723.1	4500.6	4391.3	4556.5	5229.9	6665.3	6948.5
37.5°	5674.7	5637.0	5663.8	5282.1	4995.3	4836.1	4967.4	5649.2	7230.4	7648.5
40°	6263.0	6233.8	6237.4	5872.8	5538.6	5359.9	5465.7	6175.5	7878.2	8481.1
42.5°	6902.3	6880.4	6807.5	6484.2	6108.6	5942.1	6039.3	6783.2	8573.5	9429.1
45°	7618.1	7604.8	7536.7	7166.0	6735.8	6548.6	6679.9	7454.1	9272.3	10321.2
47.5°	8236.8	8247.7	8239.2	7926.9	7480.8	7206.1	7362.9	8154.1	9922.6	11159.8
50°	8534.6	8591.7	8675.5	8578.3	8301.2	8021.7	8052.0	8829.9	10542.4	11946.2
52.5°	8379.0	8487.2	8715.7	8871.2	8978.2	8919.8	8838.4	9500.8	11125.8	12656.0
55°	7799.2	7951.2	8330.4	8705.9	9251.7	9675.8	9782.8	10244.6	11694.6	13280.7
57.5°	6743.1	6989.8	7330.1	8089.7	9008.6	10041.7	10883.9	11276.5	12297.5	13948.0
60°	4932.1	5262.7	5685.7	6816.0	8157.8	9846.0	11821.0	12861.4	13154.3	14812.1
62.5°	3156.4	3360.6	3749.5	4814.2	6356.6	8843.3	12107.8	14842.5	14606.7	16229.3
65°	2161.0	2292.3	2648.4	3246.3	4109.3	6582.6	11339.7	16327.7	16913.6	18475.3
67.5°	1570.3	1670.0	1973.8	2497.7	2677.5	3895.4	8799.5	16259.7	19156.0	20789.5
70°	1144.9	1215.4	1470.6	1973.8	2060.1	2167.1	5330.8	13821.6	19107.4	21404.5
72.5°	848.4	897.0	1068.3	1531.4	1667.5	1463.3	2638.6	10045.3	16418.9	19360.2
75°	613.8	650.2	776.6	1171.6	1334.5	1114.5	1316.3	5870.4	11452.7	13618.6
77.5°	469.1	497.1	579.7	858.1	1068.3	836.2	816.8	2700.6	5430.4	5457.2
80°	376.8	395.0	440.0	604.1	819.2	625.9	532.3	1090.2	1716.1	1452.4
82.5°	277.1	307.5	371.9	424.2	585.8	431.5	324.5	550.6	652.7	561.5
85°	158.0	178.7	224.8	303.9	374.3	263.7	186.0	244.3	303.9	249.2
87.5°	55.9	72.9	79.0	119.1	162.9	109.4	71.7	70.5	99.7	74.1
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°
3358.2	0°	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2	3358.2
3394.6	2.5°	3382.5	3376.4	3352.1	3319.3	3285.2	3252.4	3241.5	3218.4	3202.6	3194.1
3473.6	5°	3450.5	3431.1	3374.0	3301.0	3224.5	3141.8	3083.5	3030.0	2991.1	2954.6
3581.8	7.5°	3547.8	3513.7	3415.3	3287.7	3151.5	3014.2	2912.1	2834.3	2782.1	2748.0
3708.2	10°	3660.8	3608.5	3457.8	3267.0	3056.7	2859.8	2739.5	2672.7	2639.9	2621.6
3852.8	12.5°	3790.8	3716.7	3501.6	3219.6	2912.1	2687.3	2604.6	2585.2	2586.4	2587.6
4035.1	15°	3951.3	3848.0	3536.8	3116.3	2723.7	2554.8	2540.2	2571.8	2604.6	2620.4
4241.8	17.5°	4132.4	3986.5	3542.9	2946.1	2539.0	2469.7	2515.9	2583.9	2633.8	2655.7
4472.7	20°	4326.8	4127.5	3499.1	2705.5	2387.1	2400.4	2483.1	2570.6	2625.3	2653.2
4736.4	22.5°	4549.3	4278.2	3394.6	2452.7	2263.1	2325.1	2422.3	2507.4	2564.5	2592.5
5046.4	25°	4803.3	4447.2	3230.5	2240.0	2156.1	2240.0	2337.2	2407.7	2453.9	2479.4
5392.7	27.5°	5085.2	4623.4	3011.8	2071.0	2062.5	2152.5	2232.7	2287.4	2311.7	2331.1
5761.0	30°	5368.4	4783.8	2746.8	1943.4	1981.1	2066.2	2123.3	2147.6	2154.9	2158.6
6171.8	32.5°	5674.7	4922.4	2468.5	1837.7	1903.3	1982.3	2016.4	2027.3	1993.3	1970.2
6670.1	35°	6045.4	5070.7	2196.2	1753.8	1826.8	1894.8	1905.8	1896.0	1855.9	1808.5
7294.9	37.5°	6503.6	5255.4	1978.7	1694.3	1755.0	1800.0	1786.6	1784.2	1787.9	1731.9
8046.0	40°	7065.1	5496.1	1819.5	1648.1	1696.7	1706.4	1668.7	1689.4	1707.6	1622.6
8870.0	42.5°	7688.6	5786.5	1718.6	1616.5	1648.1	1625.0	1566.7	1589.7	1587.3	1475.5
9697.7	45°	8324.3	6102.5	1683.3	1593.4	1603.1	1556.9	1492.5	1498.6	1447.5	1346.7
10491.4	47.5°	8956.3	6441.6	1705.2	1573.9	1547.2	1494.9	1445.1	1418.4	1343.0	1267.7
11252.2	50°	9576.2	6797.8	1785.4	1535.1	1470.6	1440.3	1403.8	1356.4	1276.2	1211.8
11971.7	52.5°	10151.0	7156.3	1875.4	1470.6	1374.6	1392.9	1369.8	1315.1	1236.1	1170.4
12652.3	55°	10695.5	7514.8	1910.6	1381.9	1284.7	1351.5	1338.2	1237.3	1142.5	1089.0
13364.6	57.5°	11288.7	7946.3	1871.7	1268.9	1211.8	1304.1	1253.1	1141.3	1086.6	1046.5
14291.9	60°	12110.3	8623.3	1787.9	1129.1	1142.5	1233.6	1146.1	1099.9	1040.4	995.4
15682.3	62.5°	13475.2	9886.1	1652.9	990.6	1061.0	1129.1	1095.1	1048.9	988.1	944.4
18059.7	65°	15492.7	11641.1	1398.9	882.4	969.9	1027.0	1040.4	994.2	931.0	884.8
20142.9	67.5°	17194.3	12742.3	1058.6	792.4	876.3	944.4	982.0	937.1	870.2	825.3
20630.3	70°	17100.7	11942.6	808.2	703.7	793.7	862.9	911.6	876.3	804.6	762.1
18739.1	72.5°	15188.9	9990.6	653.9	613.8	709.8	777.9	836.2	809.5	736.5	695.2
13728.0	75°	11158.6	7091.9	522.6	522.6	605.3	689.1	753.6	736.5	669.7	640.5
5763.4	77.5°	4703.6	2975.3	409.6	433.9	503.2	591.9	672.1	678.2	619.9	656.3
1524.1	80°	1250.7	820.4	312.4	341.5	395.0	488.6	584.6	582.2	519.0	484.9
566.4	82.5°	476.4	323.3	222.4	240.6	285.6	374.3	463.1	477.7	414.5	358.5
222.4	85°	183.5	138.6	137.3	144.6	166.5	247.9	350.0	362.2	312.4	265.0
62.0	87.5°	47.4	41.3	51.0	48.6	76.6	132.5	200.5	207.8	190.8	110.6
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>
3358.2
3203.8
2969.2
2755.3
2626.5
2590.0
2619.2
2660.5
2660.5
2599.7
2486.7
2338.4
2167.1
1977.5
1811.0
1735.6
1625.0
1474.3
1350.3
1267.7
1206.9
1171.6
1084.1
1042.8
993.0
944.4
887.2
826.5
765.7
695.2
632.0
595.5
450.9
358.5
273.5
158.0
0.0

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