

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: P943115

Luminaire Tested: **GALN-SB7B-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943115
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-SB7B-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28753 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

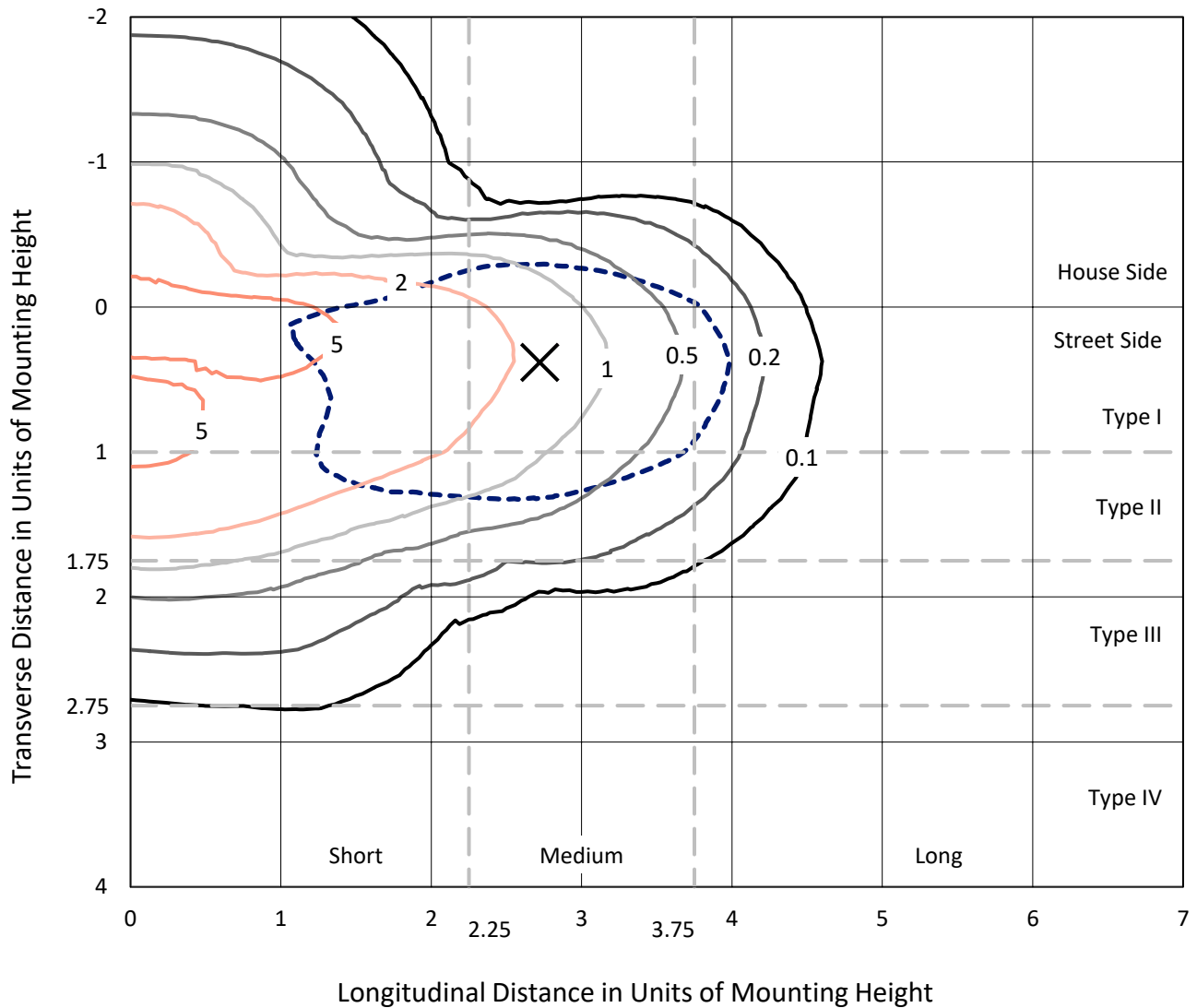
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

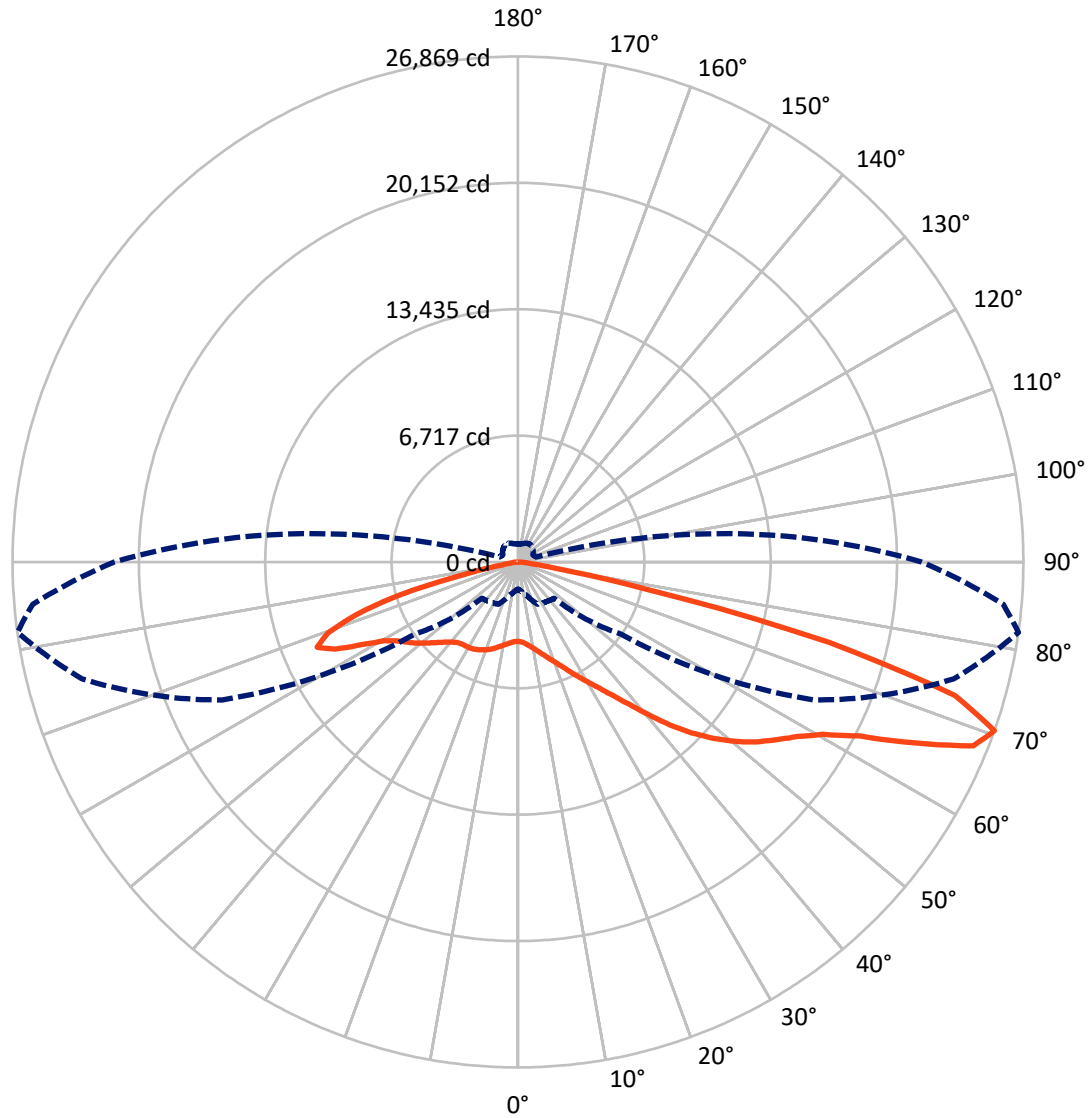
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	7088.3	0.0	7088.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21664.7	0.0	21664.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	28753.0	0.0	28753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.0	1.4
10°-20°	1143.5	4.0
20°-30°	1913.0	6.7
30°-40°	2988.6	10.4
40°-50°	4759.8	16.6
50°-60°	6623.8	23.0
60°-70°	6928.8	24.1
70°-80°	3621.4	12.6
80°-90°	376.0	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°	28753.0	100.0
0°-180°	28753.0	100.0

Coefficient of Utilization



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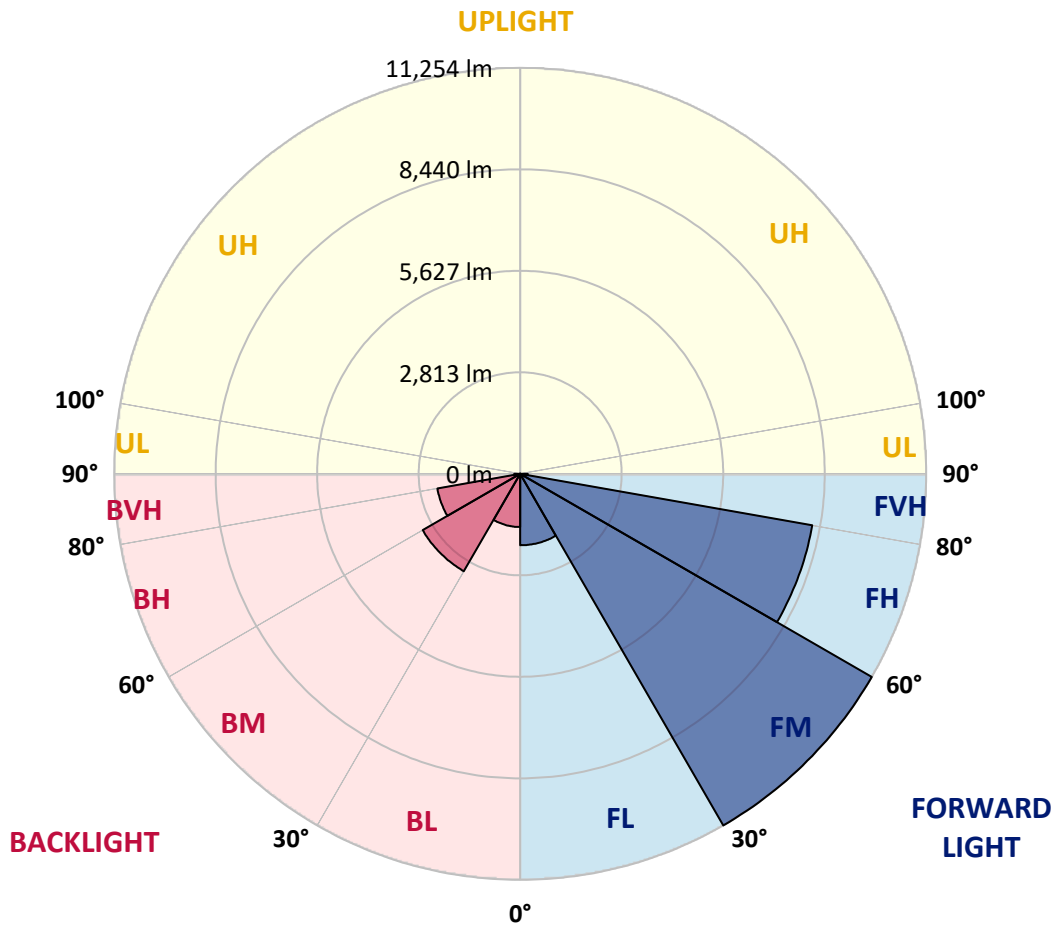
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.0	6.9			
FM (30°-60°)	11253.6	39.1			
FH (60°-80°)	8220.6	28.6			G4/12000
FVH (80°-90°)	210.5	0.7			G2/225
BL (0°-30°)	1474.6	5.1	B3/2500		
BM (30°-60°)	3118.6	10.8	B3/5000		
BH (60°-80°)	2329.6	8.1	B3/2500		G3/2500
BVH (80°-90°)	165.5	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5
2.5°	4316.2	4340.7	4333.0	4325.4	4325.4	4314.7	4313.2	4297.9	4285.7	4265.9
5°	4371.2	4397.1	4394.1	4400.2	4420.0	4424.6	4429.1	4420.0	4395.6	4371.2
7.5°	4322.3	4351.3	4360.5	4397.1	4458.1	4513.1	4554.3	4571.0	4548.2	4513.1
10°	4157.6	4189.6	4221.7	4308.6	4416.9	4546.6	4656.5	4722.1	4717.5	4683.9
12.5°	3823.4	3857.0	3925.7	4095.0	4293.4	4522.2	4726.7	4864.0	4911.3	4886.9
15°	3556.4	3585.4	3637.3	3811.2	4069.1	4416.9	4752.6	5019.6	5140.1	5126.4
17.5°	3548.8	3561.0	3593.1	3675.4	3873.8	4252.2	4725.1	5172.2	5402.6	5401.0
20°	3683.1	3687.7	3706.0	3722.7	3835.6	4127.1	4655.0	5298.8	5697.0	5697.0
22.5°	3869.2	3866.2	3884.5	3869.2	3924.1	4116.4	4610.7	5410.2	6025.0	6049.5
25°	4148.4	4133.2	4128.6	4093.5	4104.2	4215.5	4659.5	5536.8	6414.1	6464.5
27.5°	4520.7	4496.3	4479.5	4398.6	4371.2	4420.0	4809.1	5689.4	6847.4	6934.4
30°	5005.9	4961.6	4937.2	4796.8	4697.7	4705.3	5034.9	5892.3	7300.5	7440.9
32.5°	5668.0	5599.4	5533.8	5303.4	5121.8	5062.3	5326.3	6173.0	7791.8	8016.1
35°	6409.5	6354.6	6284.4	5928.9	5649.7	5512.4	5719.9	6565.1	8367.0	8722.5
37.5°	7123.6	7076.3	7109.8	6630.8	6270.7	6070.8	6235.6	7091.5	9076.5	9601.3
40°	7862.0	7825.4	7830.0	7372.3	6952.7	6728.4	6861.1	7752.2	9889.7	10646.4
42.5°	8664.5	8637.1	8545.5	8139.7	7668.2	7459.2	7581.3	8515.0	10762.4	11836.5
45°	9563.2	9546.4	9461.0	8995.6	8455.5	8220.6	8385.3	9357.2	11639.7	12956.4
47.5°	10339.8	10353.5	10342.8	9950.7	9390.8	9046.0	9242.8	10236.0	12455.9	14009.1
50°	10713.6	10785.3	10890.6	10768.5	10420.6	10069.7	10107.9	11084.3	13234.0	14996.2
52.5°	10518.3	10654.1	10940.9	11136.2	11270.5	11197.2	11095.0	11926.5	13966.4	15887.3
55°	9790.5	9981.2	10457.2	10928.7	11613.7	12146.2	12280.5	12860.2	14680.4	16671.5
57.5°	8464.7	8774.4	9201.6	10155.2	11308.6	12605.5	13662.8	14155.6	15437.2	17509.1
60°	6191.3	6606.3	7137.3	8556.2	10240.6	12359.8	14839.1	16145.1	16512.8	18593.9
62.5°	3962.3	4218.6	4706.8	6043.4	7979.5	11101.1	15199.2	18632.0	18336.0	20372.9
65°	2712.7	2877.5	3324.5	4075.2	5158.4	8263.3	14234.9	20496.4	21231.8	23192.4
67.5°	1971.2	2096.3	2477.8	3135.3	3361.1	4889.9	11046.2	20411.0	24046.8	26097.3
70°	1437.2	1525.7	1846.1	2477.8	2586.1	2720.3	6691.8	17350.4	23985.8	26869.4
72.5°	1064.9	1126.0	1341.1	1922.4	2093.3	1837.0	3312.3	12610.0	20610.9	24303.1
75°	770.5	816.3	974.9	1470.8	1675.2	1399.1	1652.3	7369.2	14376.8	17095.6
77.5°	588.9	624.0	727.8	1077.2	1341.1	1049.7	1025.3	3390.1	6816.9	6850.5
80°	473.0	495.9	552.3	758.3	1028.3	785.7	668.3	1368.6	2154.3	1823.2
82.5°	347.9	386.0	466.9	532.5	735.4	541.6	407.4	691.1	819.3	704.9
85°	198.3	224.3	282.3	381.4	469.9	331.1	233.4	306.7	381.4	312.8
87.5°	70.2	91.5	99.2	149.5	204.4	137.3	90.0	88.5	125.1	93.1
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°
4215.5	0°	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5	4215.5
4261.3	2.5°	4246.1	4238.4	4207.9	4166.7	4124.0	4082.8	4069.1	4040.1	4020.3	4009.6
4360.5	5°	4331.5	4307.1	4235.4	4143.8	4047.7	3944.0	3870.7	3803.6	3754.8	3709.0
4496.3	7.5°	4453.6	4410.8	4287.3	4127.1	3956.2	3783.8	3655.6	3558.0	3492.4	3449.6
4655.0	10°	4595.5	4529.8	4340.7	4101.1	3837.2	3590.0	3439.0	3355.0	3313.9	3291.0
4836.5	12.5°	4758.7	4665.6	4395.6	4041.6	3655.6	3373.4	3269.6	3245.2	3246.7	3248.2
5065.4	15°	4960.1	4830.4	4439.8	3911.9	3419.1	3207.1	3188.7	3228.4	3269.6	3289.4
5324.7	17.5°	5187.4	5004.3	4447.5	3698.3	3187.2	3100.3	3158.2	3243.7	3306.2	3333.7
5614.6	20°	5431.5	5181.3	4392.5	3396.2	2996.5	3013.3	3117.0	3226.9	3295.5	3330.6
5945.7	22.5°	5710.7	5370.5	4261.3	3078.9	2840.9	2918.7	3040.7	3147.5	3219.3	3254.3
6334.8	25°	6029.6	5582.6	4055.3	2811.9	2706.6	2811.9	2933.9	3022.4	3080.4	3112.5
6769.6	27.5°	6383.6	5803.8	3780.7	2599.8	2589.1	2702.0	2802.7	2871.4	2901.9	2926.3
7231.9	30°	6739.1	6005.2	3448.1	2439.6	2486.9	2593.7	2665.4	2695.9	2705.1	2709.7
7747.6	32.5°	7123.6	6179.1	3098.7	2306.9	2389.3	2488.4	2531.2	2544.9	2502.2	2473.2
8373.1	35°	7588.9	6365.3	2757.0	2201.6	2293.1	2378.6	2392.3	2380.1	2329.8	2270.3
9157.3	37.5°	8164.1	6597.2	2483.9	2126.8	2203.1	2259.6	2242.8	2239.7	2244.3	2174.1
10100.2	40°	8869.0	6899.3	2284.0	2068.9	2129.9	2142.1	2094.8	2120.7	2143.6	2036.8
11134.7	42.5°	9651.7	7263.9	2157.4	2029.2	2068.9	2039.9	1966.6	1995.6	1992.6	1852.2
12173.7	45°	10449.6	7660.6	2113.1	2000.2	2012.4	1954.4	1873.6	1881.2	1817.1	1690.5
13170.0	47.5°	11243.0	8086.3	2140.6	1975.8	1942.2	1876.6	1814.1	1780.5	1685.9	1591.3
14125.1	50°	12021.1	8533.3	2241.3	1927.0	1846.1	1808.0	1762.2	1702.7	1602.0	1521.1
15028.3	52.5°	12742.8	8983.4	2354.2	1846.1	1725.6	1748.5	1719.5	1650.8	1551.7	1469.3
15882.7	55°	13426.3	9433.5	2398.4	1734.7	1612.7	1696.6	1679.8	1553.2	1434.2	1367.0
16776.8	57.5°	14170.8	9975.1	2349.6	1592.8	1521.1	1637.1	1573.0	1432.6	1364.0	1313.6
17940.9	60°	15202.2	10824.9	2244.3	1417.4	1434.2	1548.6	1438.7	1380.8	1306.0	1249.6
19686.3	62.5°	16915.6	12410.2	2075.0	1243.5	1331.9	1417.4	1374.7	1316.7	1240.4	1185.5
22670.6	65°	19448.3	14613.3	1756.1	1107.7	1217.5	1289.2	1306.0	1248.0	1168.7	1110.7
25285.7	67.5°	21584.3	15995.6	1328.9	994.8	1100.0	1185.5	1232.8	1176.3	1092.4	1036.0
25897.5	70°	21466.8	14991.7	1014.6	883.4	996.3	1083.3	1144.3	1100.0	1010.0	956.6
23523.5	72.5°	19066.9	12541.4	820.8	770.5	891.0	976.5	1049.7	1016.1	924.6	872.7
17232.9	75°	14007.6	8902.5	656.1	656.1	759.8	865.1	945.9	924.6	840.7	804.1
7234.9	77.5°	5904.5	3734.9	514.2	544.7	631.6	743.0	843.7	851.3	778.1	823.9
1913.2	80°	1570.0	1029.9	392.1	428.7	495.9	613.3	733.9	730.8	651.5	608.8
711.0	82.5°	598.1	405.8	279.2	302.1	358.5	469.9	581.3	599.6	520.3	450.1
279.2	85°	230.4	173.9	172.4	181.6	209.0	311.2	439.4	454.7	392.1	332.6
77.8	87.5°	59.5	51.9	64.1	61.0	96.1	166.3	251.7	260.9	239.5	138.8
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>
4215.5
4021.8
3727.3
3458.8
3297.1
3251.3
3287.9
3339.8
3339.8
3263.5
3121.6
2935.5
2720.3
2482.3
2273.3
2178.7
2039.9
1850.7
1695.1
1591.3
1515.0
1470.8
1360.9
1309.1
1246.5
1185.5
1113.8
1037.5
961.2
872.7
793.4
747.6
566.0
450.1
343.3
198.3
0.0

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