

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: P950980

Luminaire Tested: **GALN-SB5B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29201 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

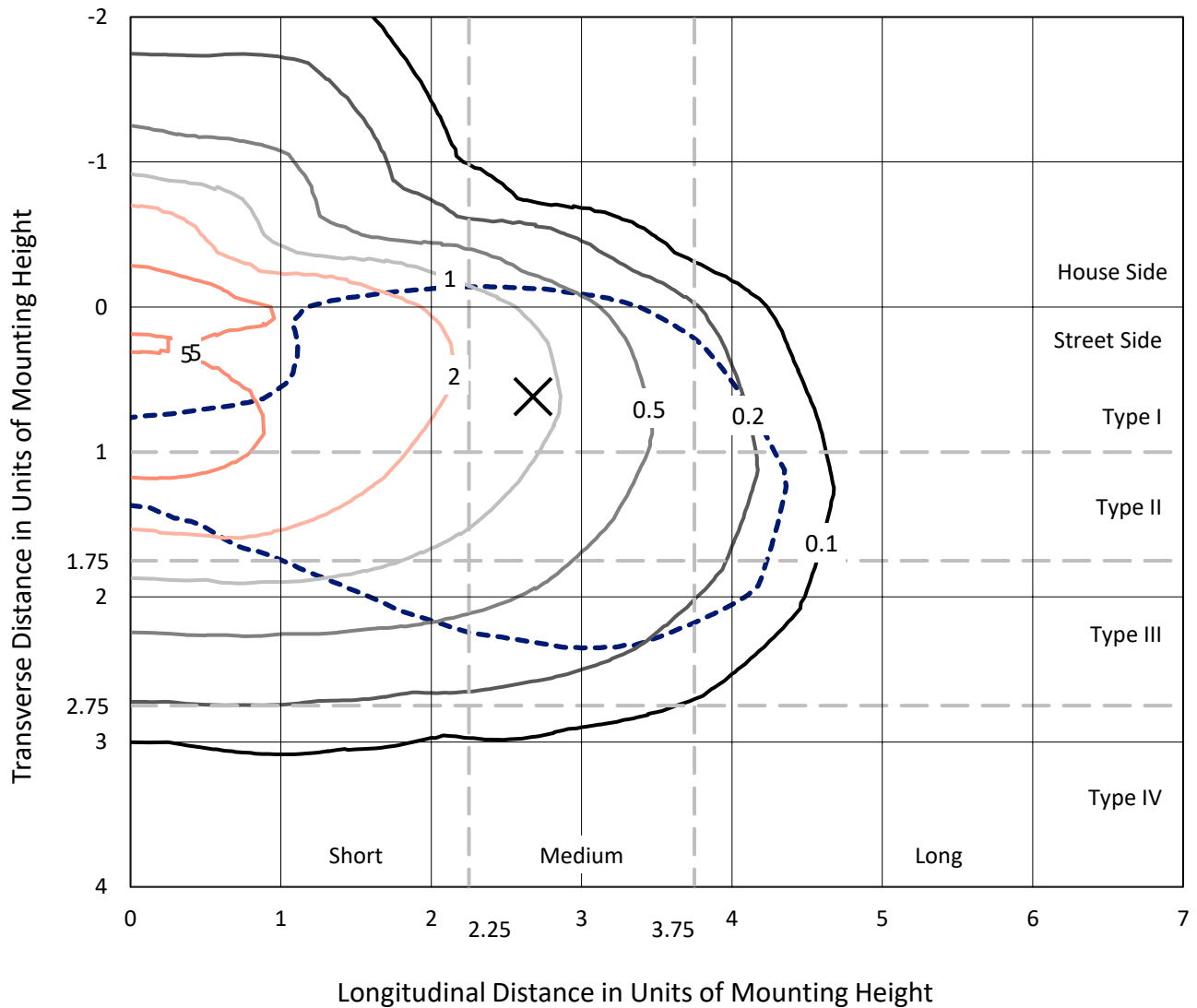
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

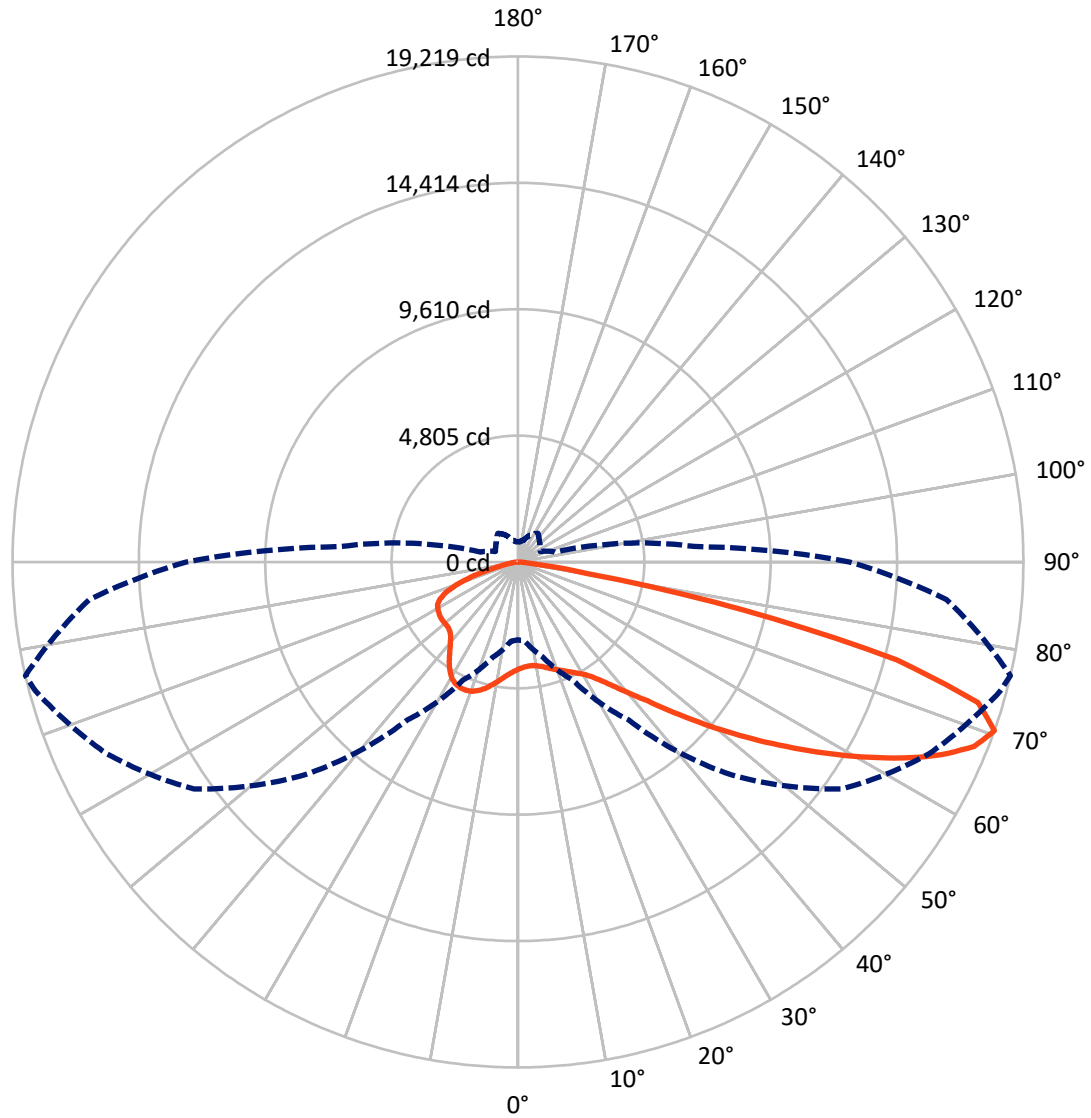
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6394.6	0.0	6394.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22806.4	0.0	22806.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	29201.0	0.0	29201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.5	1.3
10°-20°	1121.3	3.8
20°-30°	1917.6	6.6
30°-40°	3083.8	10.6
40°-50°	4814.6	16.5
50°-60°	6431.1	22.0
60°-70°	6854.6	23.5
70°-80°	4219.6	14.5
80°-90°	369.8	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°	29201.0	100.0
0°-180°	29201.0	100.0

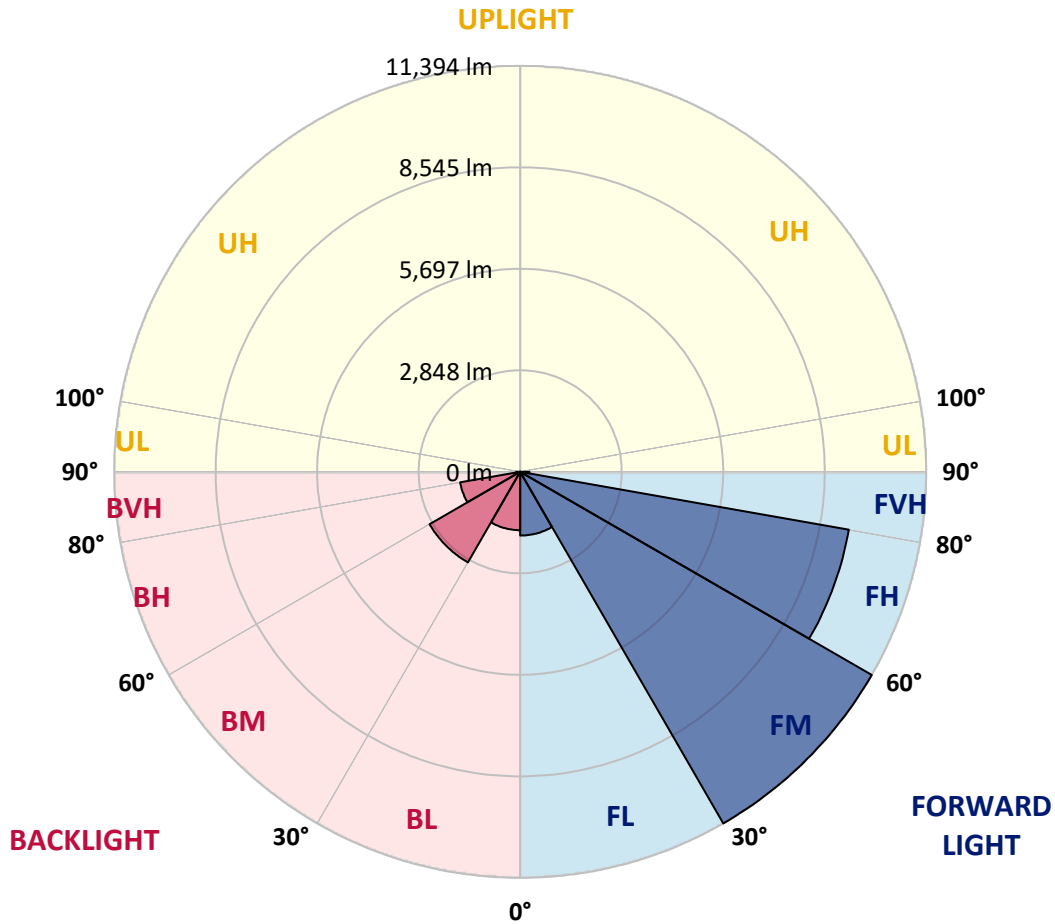


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.0	6.1			
FM (30°-60°)	11393.6	39.0			
FH (60°-80°)	9365.2	32.1			G4/12000
FVH (80°-90°)	258.6	0.9			G3/500
BL (0°-30°)	1638.5	5.6	B3/2500		
BM (30°-60°)	2935.9	10.1	B3/5000		
BH (60°-80°)	1709.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	111.2	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8
2.5°	3755.3	3753.8	3773.2	3779.2	3815.1	3840.5	3888.4	3939.2	4005.0	4012.5
5°	3538.4	3538.4	3560.8	3584.8	3631.1	3682.0	3755.3	3843.5	3957.2	3975.1
7.5°	3354.5	3366.4	3385.9	3432.2	3486.1	3559.3	3671.5	3797.1	3946.7	3975.1
10°	3206.4	3219.9	3243.8	3281.2	3361.9	3463.6	3610.2	3771.7	3972.1	4017.0
12.5°	3160.0	3173.5	3187.0	3215.4	3290.2	3409.8	3584.8	3783.7	4033.4	4078.3
15°	3267.7	3284.2	3273.7	3266.2	3305.1	3414.3	3596.7	3827.0	4109.7	4174.0
17.5°	3516.0	3522.0	3498.0	3427.7	3421.8	3480.1	3653.6	3886.9	4205.4	4275.7
20°	3916.8	3906.3	3857.0	3717.9	3638.6	3626.6	3750.8	3976.6	4304.1	4378.9
22.5°	4461.1	4449.2	4350.5	4130.6	3954.2	3837.5	3891.4	4093.2	4414.8	4498.5
25°	5140.1	5123.7	4978.6	4679.5	4405.8	4117.2	4082.8	4247.3	4550.9	4628.6
27.5°	5932.7	5919.3	5762.3	5367.4	4972.6	4500.0	4320.6	4428.2	4693.0	4781.2
30°	6785.2	6824.1	6545.9	6121.2	5621.7	4999.5	4640.6	4651.1	4876.9	4956.2
32.5°	7787.2	7854.5	7519.5	6981.1	6299.1	5542.4	5044.4	4962.1	5144.6	5210.4
35°	8780.2	8856.5	8578.3	7983.1	7198.0	6182.5	5466.1	5319.6	5500.5	5572.3
37.5°	9638.6	9740.3	9596.8	9079.3	8159.6	6954.2	6016.5	5739.8	5938.7	6028.5
40°	10316.1	10471.7	10461.2	10138.2	9293.2	7890.4	6714.9	6258.8	6483.1	6580.3
42.5°	10866.5	11001.1	11117.7	11101.3	10476.1	8953.7	7535.9	6933.2	7103.7	7215.9
45°	11246.3	11389.9	11641.2	11911.8	11614.2	10091.8	8476.6	7733.4	7888.9	8057.9
47.5°	11585.8	11748.8	12074.9	12504.1	12580.3	11234.4	9507.0	8665.1	8807.1	8982.1
50°	11615.7	11756.3	12261.8	12870.5	13266.8	12332.1	10613.7	9710.4	9843.5	10030.5
52.5°	10893.4	11114.7	11997.1	12860.0	13582.3	13250.3	11712.9	10797.7	10947.2	11171.6
55°	8455.7	8780.2	11220.9	12459.2	13470.2	13844.1	12758.3	11953.7	12145.1	12379.9
57.5°	7283.2	7425.3	8907.3	11729.4	12958.7	13998.1	13640.7	13121.7	13429.8	13687.0
60°	6545.9	6664.1	7540.4	10594.3	12285.7	13754.3	14322.6	14210.5	14742.9	15049.5
62.5°	5756.3	5868.4	6665.5	8846.0	11424.3	13349.0	14753.3	15215.5	16088.8	16423.8
65°	4972.6	5068.3	5832.5	7432.8	10329.6	12943.8	14976.2	16084.4	17334.6	17681.6
67.5°	4099.2	4178.5	4900.8	6270.7	8998.6	12388.9	15086.8	16767.8	18418.9	18716.5
70°	2958.1	3019.5	3765.7	4959.2	7328.1	11434.8	15042.0	17252.4	18981.2	19219.0
72.5°	1398.3	1453.6	2330.0	3219.9	5176.0	9577.3	14134.2	16868.0	18409.9	18291.7
75°	746.3	794.1	1338.5	1766.2	2733.8	6565.3	11566.4	14530.5	15459.2	14884.9
77.5°	505.5	542.9	828.5	1060.3	1248.8	3116.7	7434.2	10060.4	9679.0	8730.9
80°	400.8	439.7	679.0	717.9	604.2	1126.1	3071.8	4657.1	3345.5	2675.5
82.5°	308.1	351.4	571.3	520.4	329.0	462.1	894.3	1473.1	856.9	652.0
85°	188.4	234.8	448.7	332.0	185.4	210.9	303.6	409.8	261.7	218.3
87.5°	95.7	134.6	227.3	121.1	83.7	49.4	80.8	80.8	68.8	59.8
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°
4073.8	0°	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8
4052.9	2.5°	4088.8	4118.7	4169.5	4217.4	4254.8	4290.7	4326.5	4346.0	4352.0	4375.9
4075.3	5°	4136.6	4192.0	4290.7	4383.4	4441.7	4477.6	4503.0	4518.0	4521.0	4528.4
4136.6	7.5°	4224.9	4313.1	4450.7	4543.4	4586.8	4583.8	4573.3	4535.9	4521.0	4507.5
4226.3	10°	4349.0	4465.6	4634.6	4698.9	4672.0	4600.2	4507.5	4398.3	4347.5	4298.1
4349.0	12.5°	4503.0	4651.1	4817.1	4814.1	4681.0	4497.0	4281.7	4114.2	4008.0	3931.7
4500.0	15°	4690.0	4860.5	4987.6	4885.9	4594.2	4263.7	3948.2	3729.8	3634.1	3550.4
4652.6	17.5°	4882.9	5065.3	5123.7	4863.4	4375.9	3918.3	3560.8	3388.9	3294.6	3249.8
4817.1	20°	5071.3	5252.3	5204.4	4734.8	4043.9	3526.4	3207.9	3113.7	3094.2	3104.7
4977.1	22.5°	5270.2	5431.7	5220.9	4486.6	3620.7	3125.6	2950.7	2953.7	2997.0	3028.4
5144.6	25°	5473.6	5582.8	5177.5	4127.6	3166.0	2831.0	2787.7	2835.5	2920.8	2982.1
5333.0	27.5°	5669.5	5717.4	5083.3	3683.5	2775.7	2620.2	2627.6	2726.3	2855.0	2940.2
5561.9	30°	5890.9	5837.0	4902.3	3184.0	2505.0	2439.2	2502.0	2617.2	2745.8	2822.1
5850.5	32.5°	6140.6	5940.2	4615.2	2721.9	2313.6	2294.1	2397.3	2472.1	2528.9	2551.4
6233.3	35°	6451.7	6085.3	4247.3	2397.3	2141.6	2188.0	2286.7	2249.3	2226.8	2214.9
6747.8	37.5°	6855.5	6281.2	3816.6	2186.5	2002.5	2111.7	2152.1	2035.4	1947.2	1903.8
7371.4	40°	7341.5	6568.3	3402.3	2023.4	1914.3	2045.9	1975.6	1835.0	1722.8	1661.5
8072.8	42.5°	7881.4	6868.9	3053.9	1900.8	1864.9	1992.0	1845.5	1678.0	1497.0	1477.6
8908.8	45°	8448.2	7178.5	2816.1	1806.6	1841.0	1945.7	1770.7	1500.0	1371.4	1450.7
9747.8	47.5°	9015.0	7462.7	2672.5	1736.3	1829.0	1893.3	1704.9	1401.3	1310.1	1425.2
10646.6	50°	9646.1	7716.9	2608.2	1685.5	1815.6	1872.4	1606.2	1375.9	1245.8	1322.0
11576.8	52.5°	10272.8	7914.3	2560.3	1634.6	1796.1	1855.9	1558.3	1346.0	1168.0	1172.5
12513.0	55°	10897.9	8042.9	2508.0	1567.3	1752.8	1820.1	1553.8	1313.1	1109.7	1088.7
13503.1	57.5°	11564.9	8116.2	2443.7	1492.5	1678.0	1728.8	1549.4	1287.6	1091.7	1057.3
14515.6	60°	12243.9	8223.9	2359.9	1401.3	1577.8	1619.7	1538.9	1278.7	1081.3	1022.9
15469.7	62.5°	12852.5	8261.3	2259.7	1314.6	1449.2	1512.0	1516.5	1271.2	1052.8	952.6
16262.3	65°	13251.8	8099.8	2084.8	1215.9	1310.1	1401.3	1473.1	1245.8	1002.0	901.8
16654.1	67.5°	13235.4	7639.1	1811.1	1088.7	1175.5	1278.7	1410.3	1202.4	940.7	839.0
16358.0	70°	12619.2	6729.9	1464.1	940.7	1027.4	1147.1	1329.5	1138.1	867.4	770.2
14545.5	72.5°	10823.1	5267.2	1063.3	767.2	855.4	1011.0	1224.8	1060.3	792.6	708.9
10749.8	75°	7731.9	3333.5	720.8	589.2	665.5	856.9	1094.7	969.1	723.8	711.9
5383.9	77.5°	3949.7	1592.7	477.1	430.7	463.6	676.0	919.7	865.9	734.3	587.7
1531.4	80°	1284.7	587.7	300.6	293.1	308.1	450.2	711.9	710.4	556.3	399.3
370.9	82.5°	409.8	252.7	195.9	188.4	181.0	282.7	496.5	562.3	375.4	252.7
133.1	85°	163.0	151.0	115.2	106.2	76.3	133.1	260.2	373.9	279.7	182.5
34.4	87.5°	59.8	59.8	31.4	22.4	16.5	44.9	70.3	112.2	160.0	94.2
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>
4073.8
4389.4
4540.4
4510.5
4283.2
3913.8
3541.4
3263.2
3100.2
3035.9
2998.5
2961.1
2840.0
2563.3
2226.8
1914.3
1666.0
1497.0
1492.5
1479.1
1378.9
1203.9
1103.7
1061.8
1027.4
952.6
901.8
843.5
779.2
704.4
671.5
523.4
352.9
251.2
186.9
92.7
0.0

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