

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: P944185

Luminaire Tested: **GALN-SB9A-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944185  
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-SB9A-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

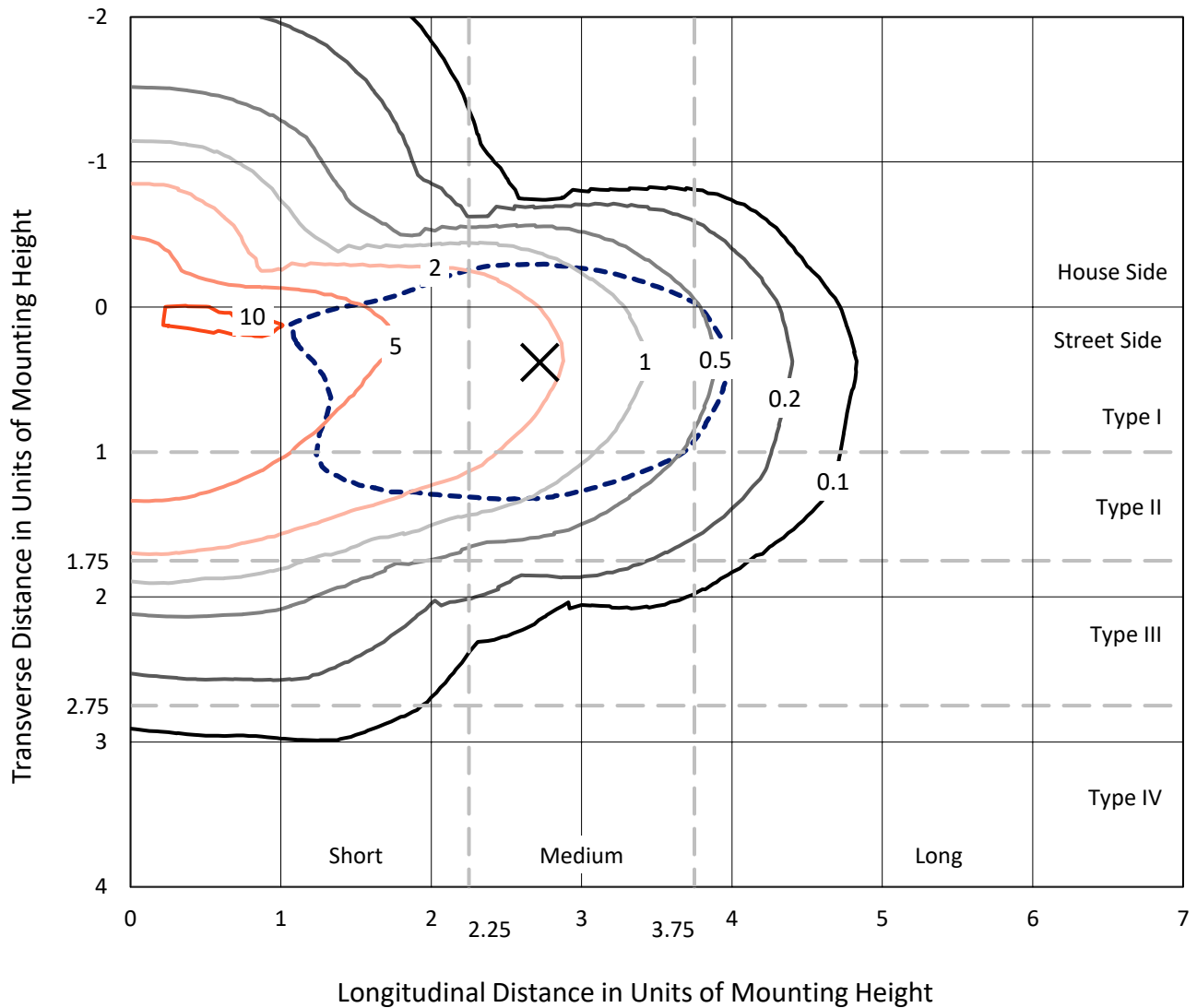
Lumens per Lamp: N/A  
Luminaire Lumens: 40484 lumens  
Efficiency: N/A  
Efficacy: 158.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

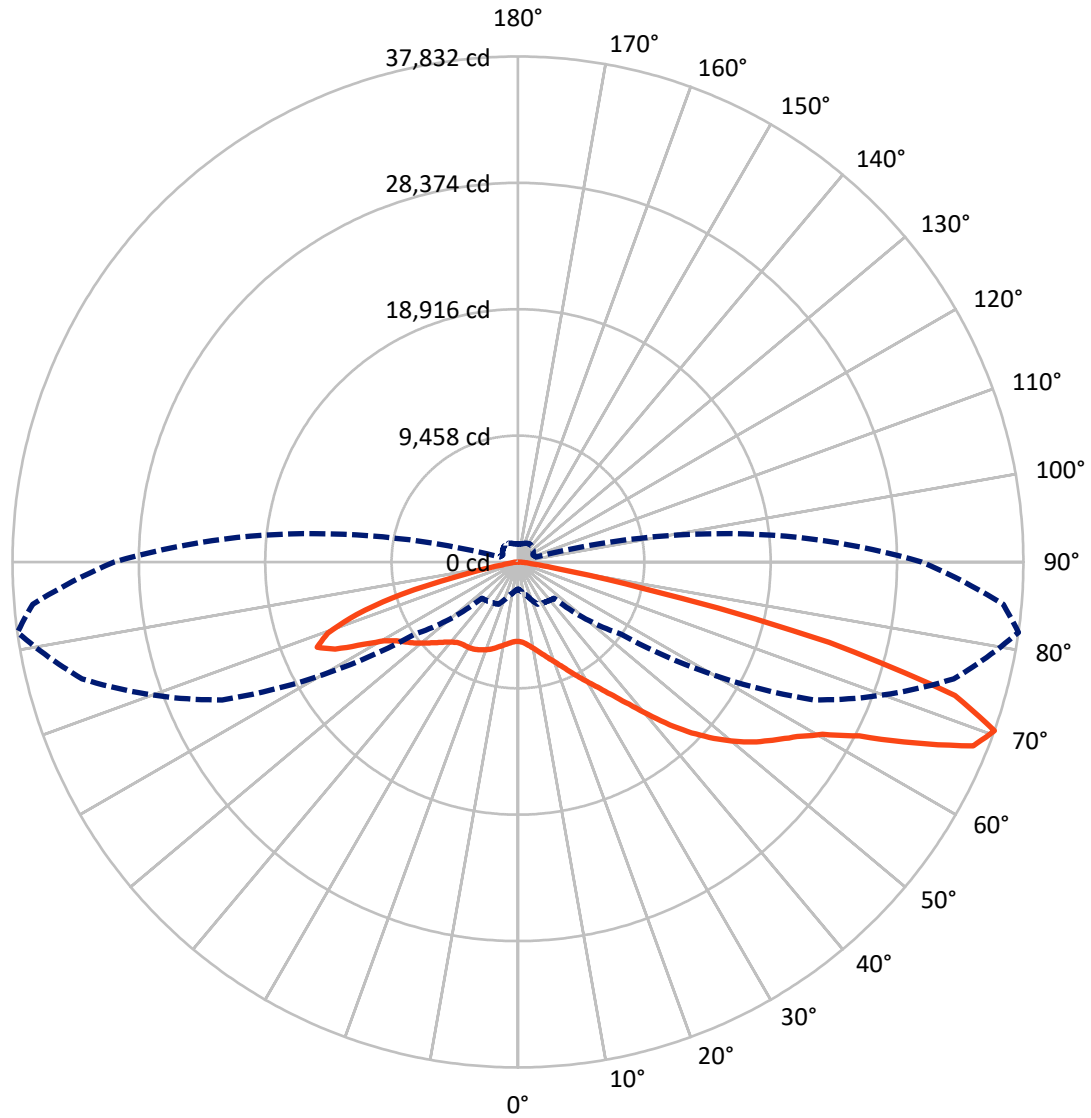
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	9980.3	0.0	9980.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30503.7	0.0	30503.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40484.0	0.0	40484.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.4	1.4
10°-20°	1610.1	4.0
20°-30°	2693.5	6.7
30°-40°	4208.0	10.4
40°-50°	6701.7	16.6
50°-60°	9326.3	23.0
60°-70°	9755.7	24.1
70°-80°	5098.9	12.6
80°-90°	529.5	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°	40484.0	100.0
0°-180°	40484.0	100.0

**Coefficient of Utilization**



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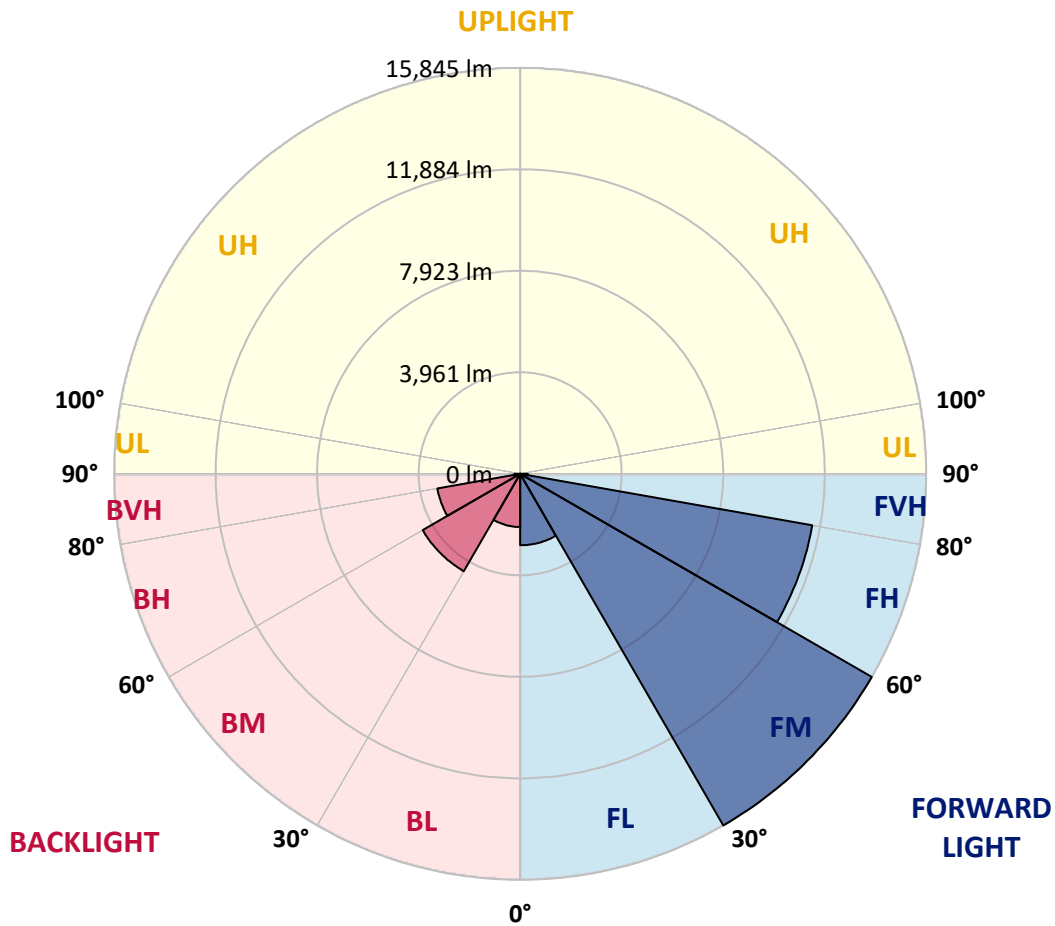
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.8	6.9			
FM (30°-60°)	15845.0	39.1			
FH (60°-80°)	11574.5	28.6			G4/12000
FVH (80°-90°)	296.4	0.7			G3/500
BL (0°-30°)	2076.3	5.1	B3/2500		
BM (30°-60°)	4390.9	10.8	B3/5000		
BH (60°-80°)	3280.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	233.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5
2.5°	6077.2	6111.6	6100.9	6090.1	6090.1	6075.1	6072.9	6051.5	6034.3	6006.4
5°	6154.6	6191.1	6186.8	6195.4	6223.3	6229.8	6236.2	6223.3	6188.9	6154.6
7.5°	6085.8	6126.6	6139.5	6191.1	6277.0	6354.4	6412.4	6436.0	6403.8	6354.4
10°	5853.8	5898.9	5944.1	6066.5	6219.0	6401.6	6556.3	6648.7	6642.2	6595.0
12.5°	5383.4	5430.6	5527.3	5765.8	6045.0	6367.2	6655.1	6848.4	6915.0	6880.7
15°	5007.4	5048.3	5121.3	5366.2	5729.2	6219.0	6691.6	7067.6	7237.3	7217.9
17.5°	4996.7	5013.9	5059.0	5175.0	5454.3	5987.0	6653.0	7282.4	7606.8	7604.6
20°	5185.7	5192.2	5218.0	5241.6	5400.6	5810.9	6554.1	7460.7	8021.4	8021.4
22.5°	5447.8	5443.5	5469.3	5447.8	5525.2	5795.8	6491.8	7617.5	8483.2	8517.6
25°	5840.9	5819.5	5813.0	5763.6	5778.6	5935.5	6560.6	7795.8	9031.0	9101.9
27.5°	6365.1	6330.7	6307.1	6193.2	6154.6	6223.3	6771.1	8010.6	9641.1	9763.5
30°	7048.2	6985.9	6951.6	6753.9	6614.3	6625.0	7089.0	8296.3	10279.1	10476.7
32.5°	7980.5	7883.9	7791.5	7467.1	7211.5	7127.7	7499.3	8691.6	10970.8	11286.6
35°	9024.6	8947.2	8848.4	8347.9	7954.8	7761.4	8053.6	9243.7	11780.7	12281.2
37.5°	10029.9	9963.3	10010.6	9336.1	8829.1	8547.7	8779.7	9984.8	12779.6	13518.6
40°	11069.6	11018.1	11024.5	10380.1	9789.3	9473.5	9660.4	10915.0	13924.6	14990.1
42.5°	12199.6	12160.9	12032.0	11460.6	10796.8	10502.5	10674.4	11989.1	15153.4	16665.7
45°	13464.9	13441.3	13321.0	12665.8	11905.3	11574.5	11806.5	13174.9	16388.6	18242.5
47.5°	14558.3	14577.6	14562.6	14010.5	13222.1	12736.6	13013.8	14412.2	17537.9	19724.7
50°	15084.6	15185.6	15333.8	15162.0	14672.2	14178.1	14231.8	15606.6	18633.4	21114.6
52.5°	14809.7	15000.8	15404.7	15679.7	15868.7	15765.6	15621.7	16792.4	19664.6	22369.1
55°	13785.0	14053.5	14723.7	15387.5	16352.1	17101.8	17290.8	18107.1	20669.9	23473.3
57.5°	11918.2	12354.3	12955.8	14298.4	15922.4	17748.4	19237.1	19930.9	21735.4	24652.7
60°	8717.4	9301.7	10049.3	12047.1	14418.7	17402.5	20893.3	22732.2	23249.9	26180.0
62.5°	5578.9	5939.8	6627.2	8509.0	11235.1	15630.3	21400.3	26233.7	25817.0	28684.8
65°	3819.5	4051.5	4680.9	5737.8	7263.0	11634.6	20042.7	28858.8	29894.3	32654.7
67.5°	2775.5	2951.6	3488.7	4414.5	4732.5	6885.0	15552.9	28738.5	33857.7	36744.9
70°	2023.6	2148.2	2599.3	3488.7	3641.2	3830.2	9422.0	24429.3	33771.8	37831.8
72.5°	1499.4	1585.4	1888.3	2706.7	2947.3	2586.4	4663.7	17754.8	29020.0	34218.6
75°	1084.8	1149.3	1372.7	2070.9	2358.7	1969.9	2326.5	10375.8	20242.4	24070.5
77.5°	829.2	878.6	1024.7	1516.6	1888.3	1478.0	1443.6	4773.3	9598.1	9645.4
80°	665.9	698.2	777.6	1067.7	1447.9	1106.3	940.9	1926.9	3033.3	2567.1
82.5°	489.8	543.5	657.3	749.7	1035.4	762.6	573.6	973.1	1153.6	992.5
85°	279.3	315.8	397.4	537.0	661.6	466.2	328.7	431.8	537.0	440.4
87.5°	98.8	128.9	139.6	210.5	287.9	193.3	126.7	124.6	176.2	131.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5935.5	0°	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5	5935.5
5999.9	2.5°	5978.4	5967.7	5924.7	5866.7	5806.6	5748.6	5729.2	5688.4	5660.5	5645.5
6139.5	5°	6098.7	6064.4	5963.4	5834.5	5699.2	5553.1	5450.0	5355.4	5286.7	5222.3
6330.7	7.5°	6270.6	6210.4	6036.4	5810.9	5570.3	5327.5	5147.1	5009.6	4917.2	4857.1
6554.1	10°	6470.4	6378.0	6111.6	5774.3	5402.7	5054.7	4842.0	4723.9	4665.9	4633.7
6809.8	12.5°	6700.2	6569.2	6188.9	5690.6	5147.1	4749.7	4603.6	4569.2	4571.4	4573.5
7132.0	15°	6983.8	6801.2	6251.2	5508.0	4814.1	4515.5	4489.7	4545.6	4603.6	4631.5
7497.2	17.5°	7303.9	7046.1	6262.0	5207.2	4487.6	4365.1	4446.8	4567.1	4655.1	4693.8
7905.4	20°	7647.6	7295.3	6184.7	4781.9	4219.1	4242.7	4388.8	4543.4	4640.1	4689.5
8371.5	22.5°	8040.7	7561.6	5999.9	4335.1	3999.9	4109.5	4281.4	4431.7	4532.7	4582.1
8919.3	25°	8489.7	7860.2	5709.9	3959.1	3810.9	3959.1	4131.0	4255.6	4337.2	4382.3
9531.5	27.5°	8988.0	8171.7	5323.2	3660.5	3645.5	3804.5	3946.2	4042.9	4085.9	4120.2
10182.4	30°	9488.6	8455.3	4854.9	3435.0	3501.6	3651.9	3752.9	3795.9	3808.7	3815.2
10908.5	32.5°	10029.9	8700.2	4363.0	3248.1	3364.1	3503.7	3563.9	3583.2	3523.0	3482.2
11789.3	35°	10685.1	8962.3	3881.8	3099.8	3228.7	3349.0	3368.4	3351.2	3280.3	3196.5
12893.5	37.5°	11495.0	9288.8	3497.3	2994.6	3102.0	3181.5	3157.8	3153.5	3160.0	3061.2
14221.0	40°	12487.5	9714.1	3215.8	2913.0	2998.9	3016.1	2949.5	2986.0	3018.2	2867.8
15677.5	42.5°	13589.5	10227.6	3037.5	2857.1	2913.0	2872.1	2769.0	2809.8	2805.5	2607.9
17140.4	45°	14713.0	10786.1	2975.2	2816.3	2833.5	2751.8	2638.0	2648.7	2558.5	2380.2
18543.2	47.5°	15830.0	11385.4	3013.9	2781.9	2734.7	2642.3	2554.2	2506.9	2373.8	2240.6
19888.0	50°	16925.6	12014.9	3155.7	2713.2	2599.3	2545.6	2481.2	2397.4	2255.6	2141.7
21159.7	52.5°	17941.7	12648.6	3314.7	2599.3	2429.6	2461.8	2421.0	2324.3	2184.7	2068.7
22362.7	55°	18904.1	13282.3	3377.0	2442.5	2270.6	2388.8	2365.2	2186.9	2019.3	1924.8
23621.5	57.5°	19952.4	14044.9	3308.2	2242.7	2141.7	2305.0	2214.8	2017.2	1920.5	1849.6
25260.6	60°	21404.6	15241.4	3160.0	1995.7	2019.3	2180.4	2025.7	1944.1	1838.9	1759.4
27718.2	62.5°	23817.0	17473.4	2921.5	1750.8	1875.4	1995.7	1935.5	1853.9	1746.5	1669.1
31920.0	65°	27383.0	20575.4	2472.6	1559.6	1714.3	1815.2	1838.9	1757.2	1645.5	1563.9
35602.0	67.5°	30390.5	22521.7	1871.1	1400.6	1548.8	1669.1	1735.7	1656.3	1538.1	1458.6
36463.4	70°	30225.1	21108.2	1428.5	1243.8	1402.8	1525.2	1611.1	1548.8	1422.1	1346.9
33120.9	72.5°	26846.0	17658.2	1155.7	1084.8	1254.5	1374.8	1478.0	1430.7	1301.8	1228.8
24263.9	75°	19722.6	12534.7	923.7	923.7	1069.8	1218.0	1331.9	1301.8	1183.7	1132.1
10186.7	77.5°	8313.5	5258.8	723.9	766.9	889.4	1046.2	1188.0	1198.7	1095.6	1160.0
2693.8	80°	2210.5	1450.0	552.1	603.6	698.2	863.6	1033.3	1029.0	917.3	857.1
1001.1	82.5°	842.1	571.4	393.1	425.3	504.8	661.6	818.5	844.2	732.5	633.7
393.1	85°	324.4	244.9	242.7	255.6	294.3	438.2	618.7	640.2	552.1	468.3
109.6	87.5°	83.8	73.0	90.2	85.9	135.3	234.2	354.5	367.3	337.3	195.5
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>
5935.5
5662.6
5248.0
4870.0
4642.2
4577.8
4629.4
4702.4
4702.4
4595.0
4395.2
4133.1
3830.2
3495.1
3200.8
3067.6
2872.1
2605.8
2386.6
2240.6
2133.2
2070.9
1916.2
1843.2
1755.1
1669.1
1568.2
1460.8
1353.4
1228.8
1117.1
1052.6
797.0
633.7
483.3
279.3
0.0

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