

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: P947524

Luminaire Tested: **GALN-SB2D-835-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-835-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

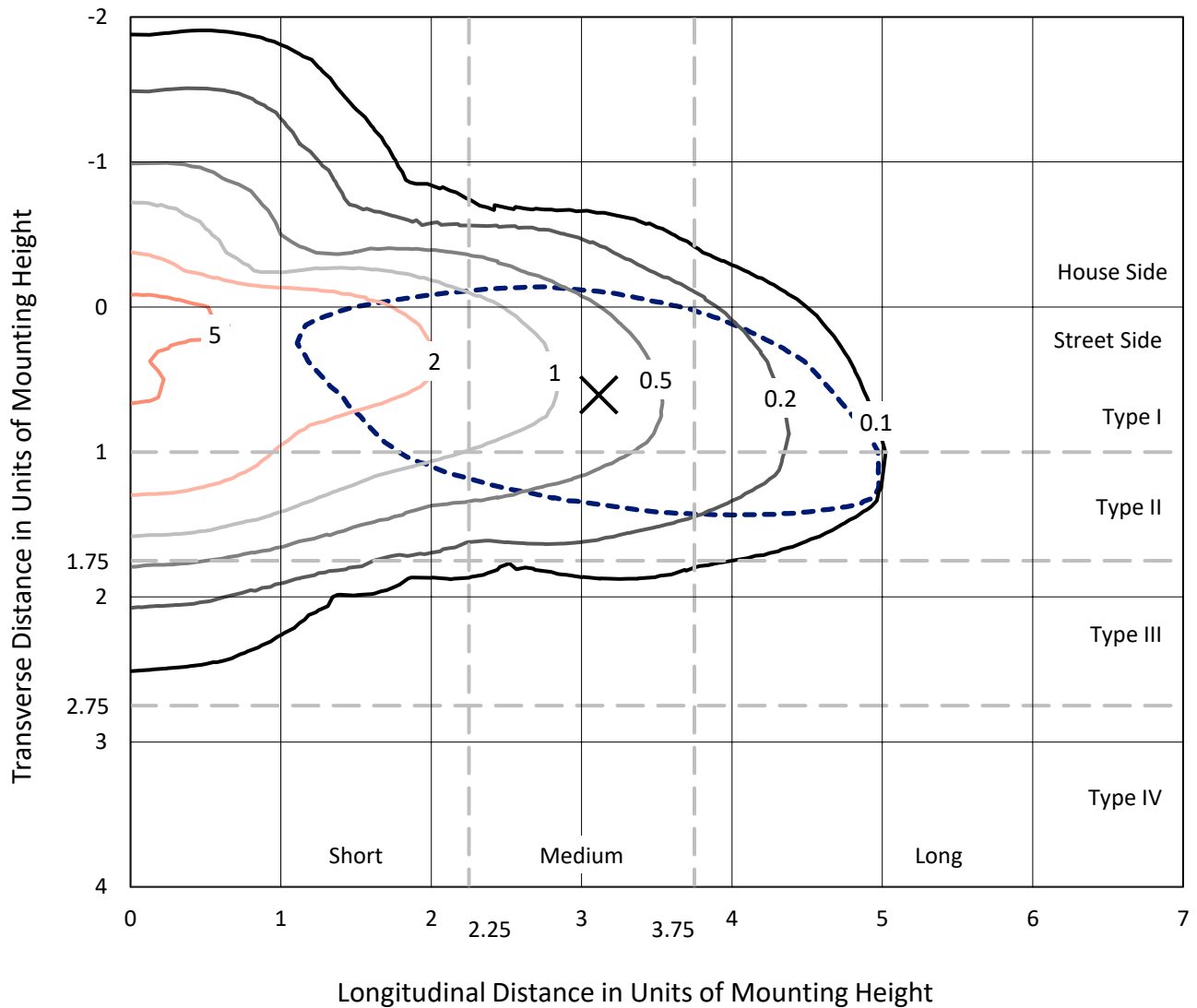
Lumens per Lamp: N/A  
Luminaire Lumens: 18761 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

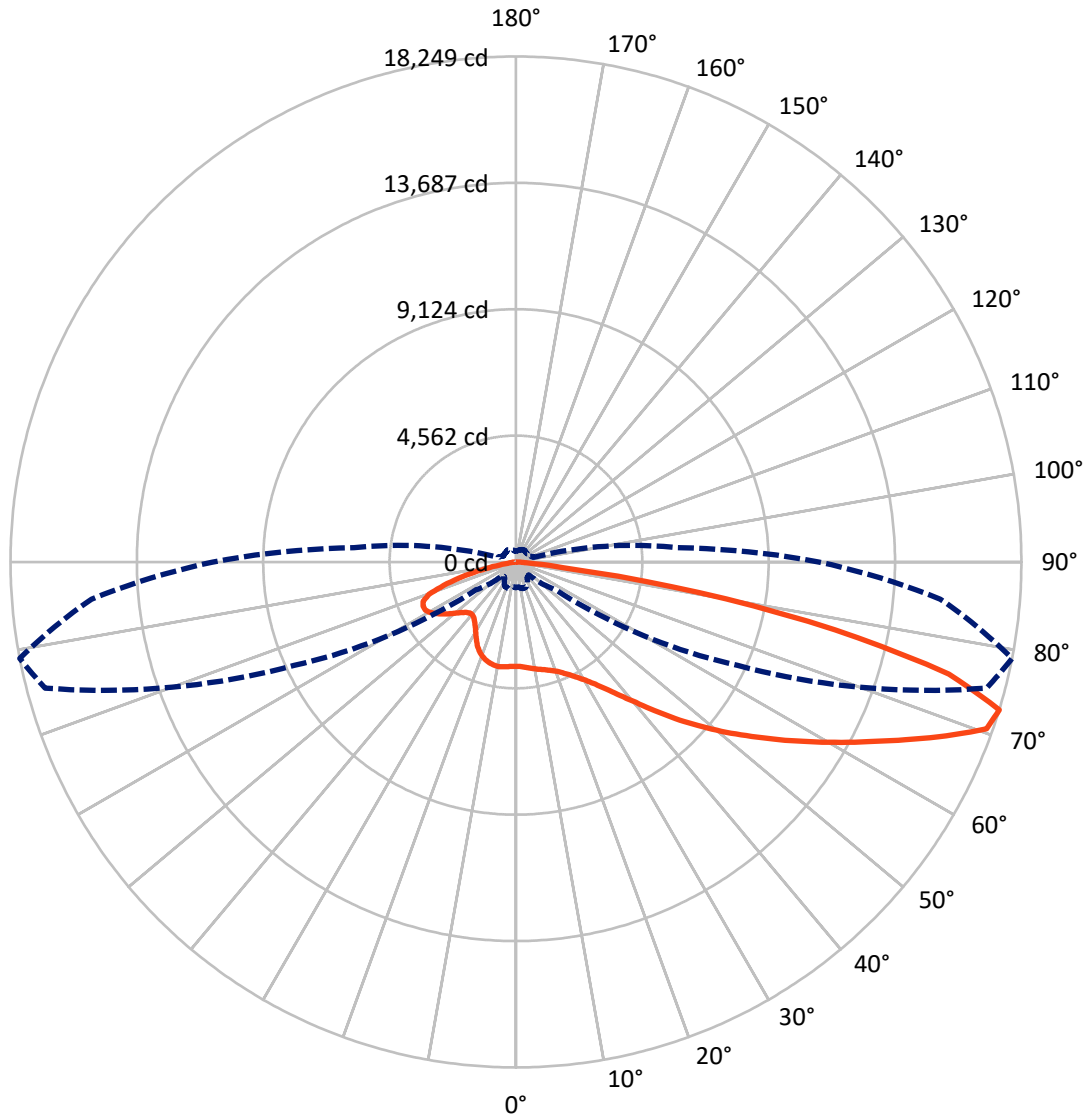
✕ Max cd  
 - - - 1/2 Max cd



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 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4128.5	0.0	4128.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	14632.5	0.0	14632.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	18761.0	0.0	18761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.9	1.8
10°-20°	893.8	4.8
20°-30°	1442.2	7.7
30°-40°	2164.5	11.5
40°-50°	3070.5	16.4
50°-60°	3877.6	20.7
60°-70°	3938.2	21.0
70°-80°	2684.1	14.3
80°-90°	348.2	1.9
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°	18761.0	100.0
0°-180°	18761.0	100.0

**Coefficient of Utilization**



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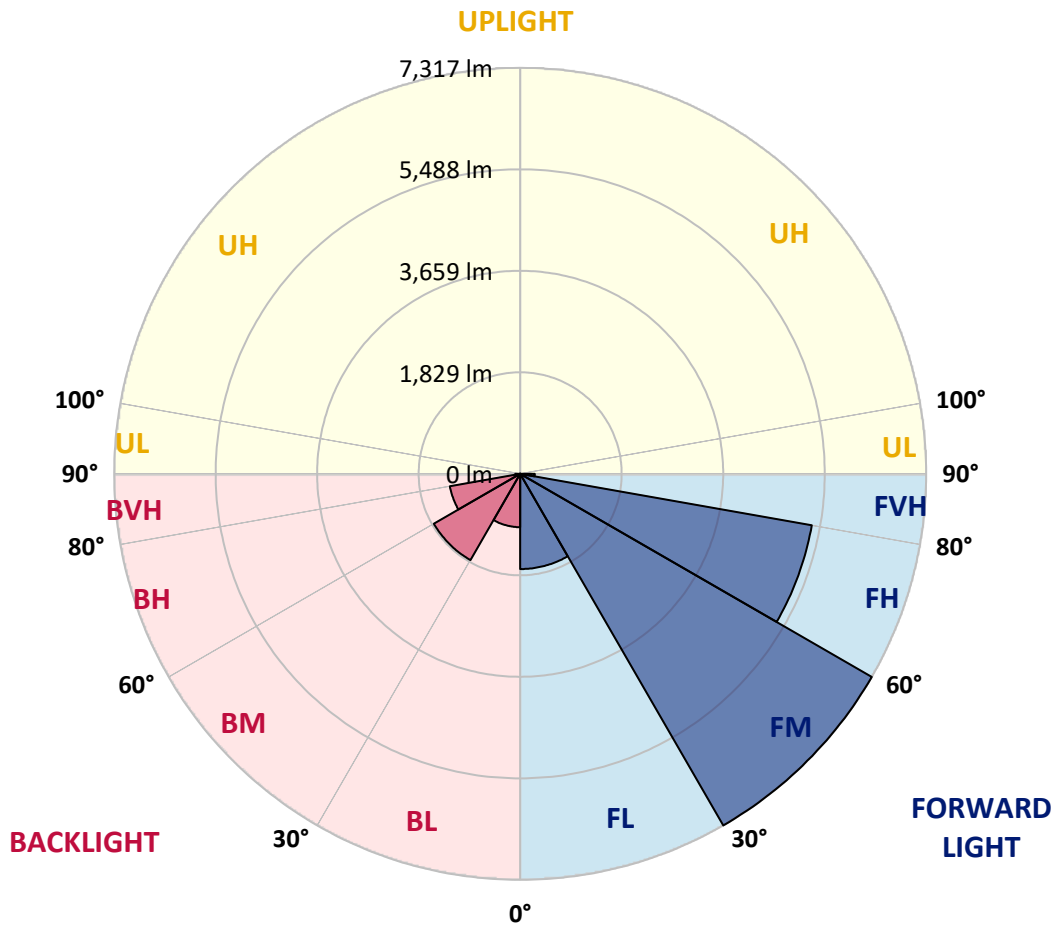
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.2	9.1			
FM (30°-60°)	7317.2	39.0			
FH (60°-80°)	5336.9	28.4			G3/7500
FVH (80°-90°)	262.3	1.4			G3/500
BL (0°-30°)	961.6	5.1	B2/1000		
BM (30°-60°)	1795.4	9.6	B2/2500		
BH (60°-80°)	1285.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	85.9	0.5			G1/100
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°	79°
0°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
2.5°	3768.1	3750.2	3761.1	3757.2	3762.1	3768.1	3770.1	3773.0	3783.0	3782.0
5°	3760.1	3742.3	3757.2	3752.2	3765.1	3779.0	3790.9	3801.8	3817.7	3824.6
7.5°	3743.3	3731.4	3746.2	3761.1	3784.9	3805.8	3822.7	3847.5	3870.3	3874.3
10°	3645.0	3636.1	3670.8	3709.5	3775.0	3831.6	3868.3	3897.1	3921.9	3925.9
12.5°	3542.8	3531.9	3570.6	3623.2	3729.4	3831.6	3909.0	3946.7	3968.5	3981.4
15°	3525.9	3517.0	3538.8	3584.5	3672.8	3804.8	3936.8	4006.2	4025.1	4040.0
17.5°	3607.3	3590.4	3599.4	3615.3	3666.9	3780.0	3958.6	4073.7	4102.5	4118.4
20°	3795.9	3772.0	3758.2	3726.4	3717.5	3784.0	3956.6	4155.1	4192.8	4212.7
22.5°	4046.9	4031.1	4001.3	3920.9	3833.6	3832.6	3994.3	4259.3	4329.8	4348.6
25°	4350.6	4326.8	4289.1	4179.9	4012.2	3928.8	4057.9	4392.3	4510.4	4515.3
27.5°	4699.9	4664.2	4612.6	4468.7	4242.4	4079.7	4155.1	4545.1	4717.8	4715.8
30°	5068.1	5032.4	4977.8	4803.1	4518.3	4283.1	4290.1	4709.8	4963.9	4953.0
32.5°	5337.0	5310.2	5299.3	5164.4	4835.9	4523.3	4444.9	4892.4	5267.6	5257.6
35°	5543.4	5508.7	5521.6	5453.1	5182.2	4792.2	4634.4	5109.8	5636.7	5635.7
37.5°	5747.9	5717.1	5728.0	5682.4	5502.8	5133.6	4865.7	5375.7	6094.2	6116.1
40°	5934.4	5901.7	5945.4	5902.7	5751.9	5496.8	5128.6	5676.4	6624.2	6665.8
42.5°	6046.6	6020.8	6093.2	6094.2	5968.2	5803.5	5417.4	6007.9	7237.4	7330.7
45°	6085.3	6076.4	6185.5	6208.3	6159.7	5981.1	5677.4	6369.1	7898.4	8065.1
47.5°	6043.6	6026.7	6177.6	6261.9	6300.6	6064.5	5892.8	6760.1	8573.2	8817.3
50°	5833.2	5800.5	6024.8	6202.4	6340.3	6119.0	6110.1	7211.6	9340.3	9607.3
52.5°	5455.1	5430.3	5685.4	5994.0	6253.0	6145.8	6354.2	7704.9	10068.7	10414.1
55°	4971.8	4939.1	5219.9	5622.8	6035.7	6136.9	6598.4	8256.6	10928.1	11278.4
57.5°	4205.7	4140.2	4495.5	4971.8	5681.4	6126.0	6852.4	8805.4	11801.4	12221.2
60°	3088.3	2991.0	3426.7	3991.4	4988.7	6019.8	7167.0	9420.7	12849.4	13227.5
62.5°	1798.2	1741.6	2026.4	2553.4	3760.1	5394.6	7343.6	10136.2	13879.5	14276.4
65°	1396.3	1380.4	1405.2	1445.9	2092.9	4039.0	6798.8	10833.8	15189.4	15467.3
67.5°	1277.2	1265.3	1276.2	1199.8	1061.8	2249.7	5378.7	11010.5	16592.6	16761.3
70°	1135.3	1121.4	1157.1	1091.6	835.6	1023.1	3475.3	10369.4	17709.1	18025.6
72.5°	924.9	909.0	992.4	962.6	703.6	657.0	1745.6	8846.1	17592.0	18248.9
75°	710.5	701.6	800.9	825.7	573.6	517.0	837.6	6575.5	15481.2	16143.1
77.5°	551.8	544.8	595.4	685.7	462.5	400.9	515.0	4171.0	11666.5	11782.6
80°	413.8	394.0	440.6	530.9	360.2	292.8	349.3	2432.3	7374.4	6684.7
82.5°	259.0	249.1	287.8	354.3	254.0	201.5	227.3	1343.7	2955.3	1740.6
85°	147.9	143.9	156.8	202.4	137.9	116.1	130.0	593.4	539.9	371.2
87.5°	59.5	57.6	71.5	90.3	50.6	42.7	45.6	142.9	119.1	110.2
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°
3766.1	0°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
3781.0	2.5°	3777.0	3777.0	3763.1	3741.3	3716.5	3700.6	3674.8	3667.8	3641.1	3633.1
3814.7	5°	3822.7	3814.7	3772.0	3710.5	3626.2	3548.8	3463.4	3409.8	3334.4	3307.6
3881.2	7.5°	3880.2	3858.4	3784.9	3650.0	3473.3	3299.7	3119.1	2982.1	2851.1	2804.5
3935.8	10°	3932.8	3902.0	3777.0	3540.8	3235.2	2934.5	2646.7	2445.2	2292.4	2229.9
3996.3	12.5°	3985.4	3928.8	3724.4	3359.2	2896.8	2488.9	2182.2	2025.5	1931.2	1855.8
4045.9	15°	4035.0	3955.6	3643.0	3116.1	2525.6	2111.8	1885.5	1760.5	1685.1	1635.4
4118.4	17.5°	4092.6	3978.5	3521.0	2807.5	2172.3	1850.8	1666.2	1590.8	1575.9	1569.9
4217.6	20°	4173.0	3999.3	3360.2	2462.1	1912.3	1642.4	1547.1	1540.2	1539.2	1536.2
4336.7	22.5°	4259.3	4024.1	3147.8	2148.5	1691.0	1512.4	1495.5	1481.6	1472.7	1471.7
4480.6	25°	4361.5	4032.1	2881.9	1891.5	1502.5	1450.9	1431.0	1410.2	1404.2	1404.2
4644.4	27.5°	4460.8	4005.3	2572.3	1668.2	1396.3	1394.3	1368.5	1361.5	1360.6	1363.5
4830.9	30°	4560.0	3954.6	2264.6	1461.8	1334.8	1334.8	1325.8	1330.8	1334.8	1344.7
5087.0	32.5°	4694.0	3901.1	2007.6	1309.0	1281.2	1271.2	1280.2	1290.1	1294.1	1307.0
5423.4	35°	4890.5	3863.3	1803.2	1225.6	1225.6	1212.7	1217.7	1215.7	1206.7	1200.8
5830.2	37.5°	5150.5	3861.4	1634.5	1186.9	1179.0	1177.0	1178.0	1165.1	1130.3	1088.6
6322.5	40°	5463.1	3914.9	1504.5	1160.1	1154.1	1166.0	1160.1	1125.4	1030.1	957.6
6927.8	42.5°	5882.8	4067.8	1421.1	1127.3	1145.2	1160.1	1136.3	1016.2	951.7	903.1
7617.5	45°	6377.1	4315.9	1378.4	1092.6	1128.3	1146.2	1031.1	978.5	926.9	868.3
8369.8	47.5°	6936.8	4628.5	1368.5	1059.9	1090.6	1101.5	986.4	962.6	904.1	840.5
9126.0	50°	7546.1	4998.6	1395.3	1021.2	1036.0	998.3	971.5	949.7	889.2	826.7
9901.0	52.5°	8176.2	5406.5	1448.9	968.6	981.5	939.8	965.6	946.7	880.2	795.9
10701.9	55°	8795.5	5817.3	1500.5	907.0	925.9	887.2	948.7	934.8	839.6	744.3
11556.3	57.5°	9424.7	6226.2	1551.1	852.5	872.3	836.6	921.9	903.1	793.9	696.7
12489.1	60°	10078.6	6623.2	1574.9	799.9	813.8	789.9	881.2	848.5	742.3	648.0
13406.1	62.5°	10690.9	6953.6	1536.2	747.3	756.2	746.3	827.6	784.0	690.7	593.4
14361.8	65°	11305.2	7150.1	1417.1	695.7	697.6	692.7	752.2	714.5	630.2	545.8
15198.3	67.5°	11862.0	7260.3	1227.6	640.1	635.1	633.1	681.8	639.1	571.6	498.2
15834.5	70°	11980.0	6980.4	937.8	574.6	574.6	569.6	604.4	560.7	507.1	447.6
15379.0	72.5°	10942.0	5871.9	665.9	500.2	508.1	498.2	527.0	490.2	441.6	401.9
13254.3	75°	8823.3	4305.9	484.3	423.7	437.6	420.8	447.6	421.8	380.1	379.1
9133.9	77.5°	6062.5	2662.6	351.3	349.3	359.2	337.4	368.2	354.3	316.6	299.7
3975.5	80°	2587.1	1061.8	256.0	269.9	269.9	250.1	285.8	289.8	257.0	249.1
767.1	82.5°	515.0	301.7	179.6	185.6	174.7	168.7	202.4	224.3	309.6	344.4
231.2	85°	154.8	111.1	108.2	101.2	89.3	90.3	119.1	225.3	277.9	158.8
76.4	87.5°	42.7	27.8	28.8	22.8	18.9	24.8	40.7	170.7	93.3	39.7
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>
3766.1
3646.0
3327.5
2810.4
2243.8
1880.6
1644.4
1573.9
1546.1
1482.6
1410.2
1371.5
1351.6
1317.9
1214.7
1089.6
955.7
901.1
864.4
835.6
819.7
789.9
739.3
694.7
645.0
592.5
539.9
492.2
445.6
390.0
341.4
280.8
249.1
345.3
136.9
33.7
0.0

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