

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: P956155

Luminaire Tested: **GALN-SB8D-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956155  
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-SB8D-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

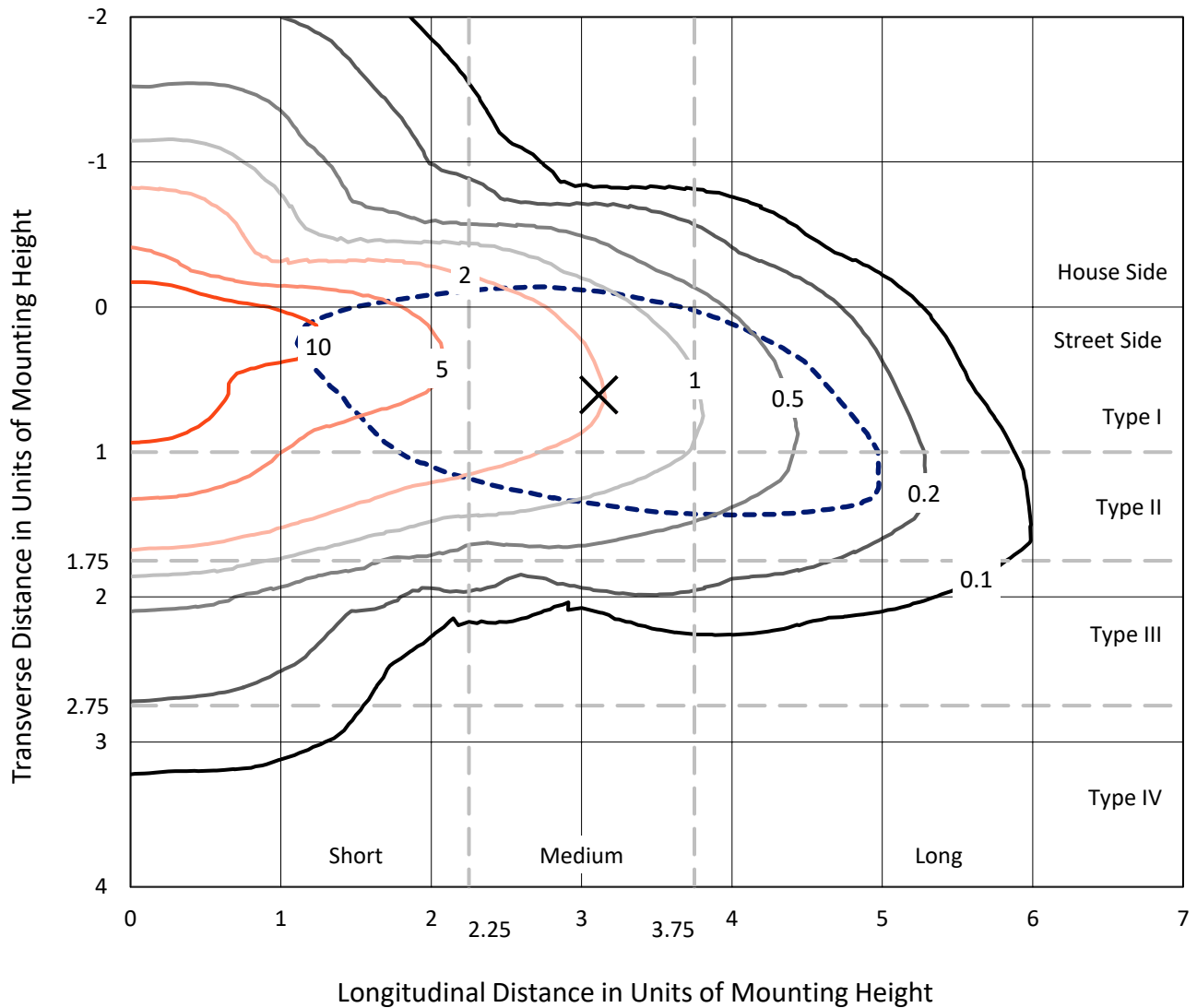
Lumens per Lamp: N/A  
Luminaire Lumens: 49783 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

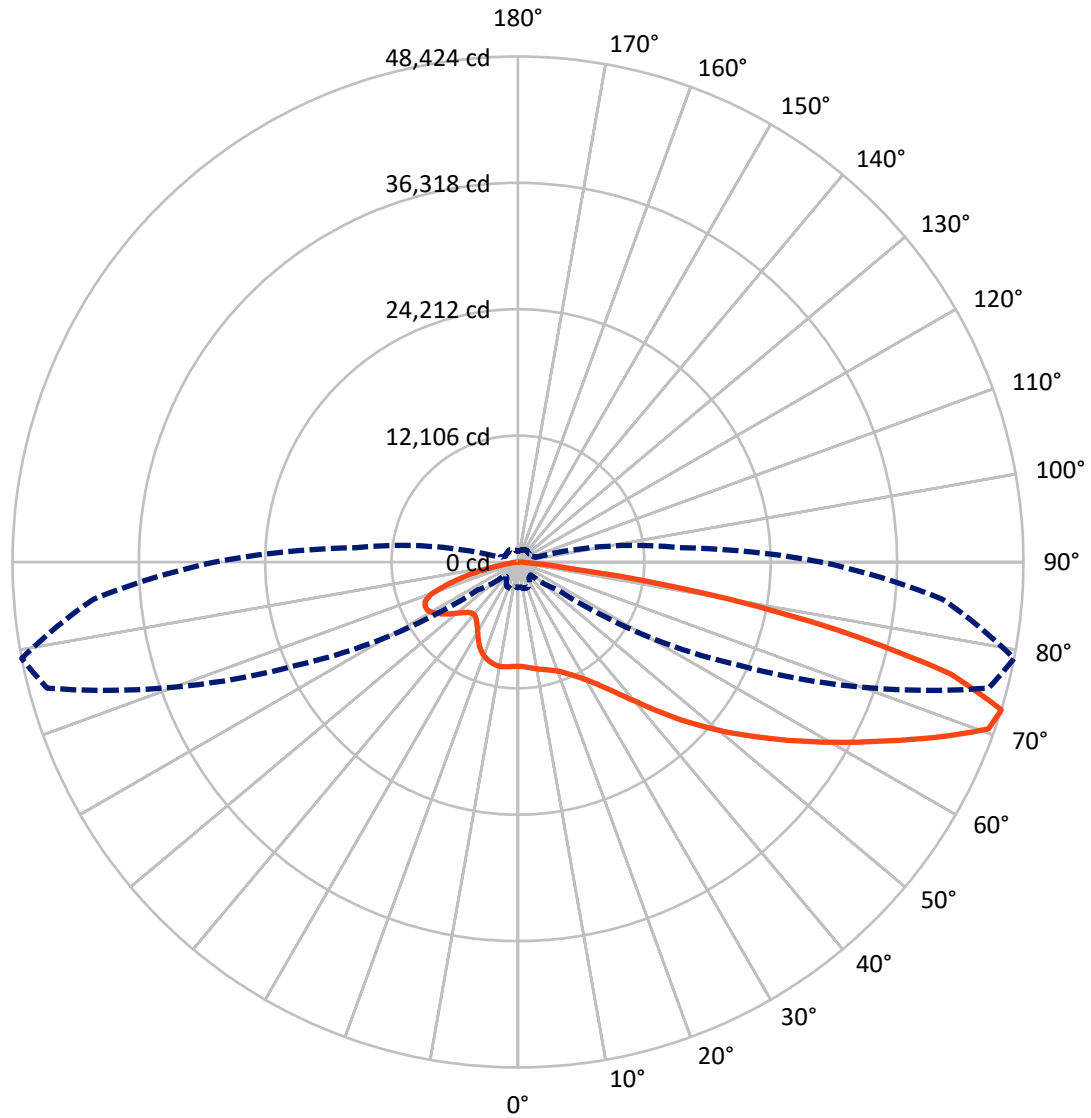
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	10955.0	0.0	10955.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	38828.0	0.0	38828.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	49783.0	0.0	49783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.1	1.8
10°-20°	2371.7	4.8
20°-30°	3826.9	7.7
30°-40°	5743.6	11.5
40°-50°	8147.6	16.4
50°-60°	10289.4	20.7
60°-70°	10450.3	21.0
70°-80°	7122.3	14.3
80°-90°	924.1	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°	49783.0	100.0
0°-180°	49783.0	100.0

**Coefficient of Utilization**



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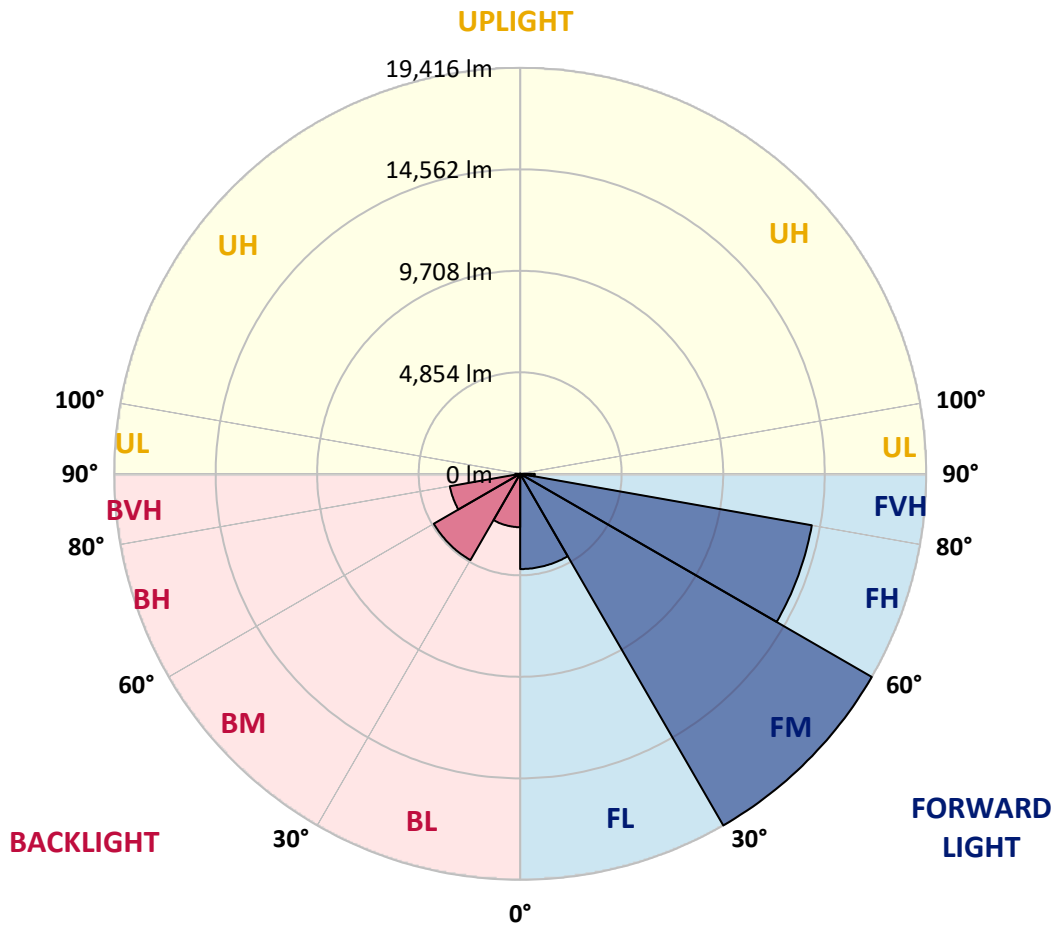
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4553.9	9.1			
FM (30°-60°)	19416.4	39.0			
FH (60°-80°)	14161.6	28.4			G5
FVH (80°-90°)	696.1	1.4			G4/750
BL (0°-30°)	2551.7	5.1	B4/5000		
BM (30°-60°)	4764.3	9.6	B3/5000		
BH (60°-80°)	3411.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	228.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5
2.5°	9998.7	9951.3	9980.3	9969.8	9982.9	9998.7	10004.0	10011.9	10038.2	10035.6
5°	9977.7	9930.3	9969.8	9956.6	9990.8	10027.7	10059.3	10088.3	10130.4	10148.8
7.5°	9932.9	9901.3	9940.8	9980.3	10043.5	10098.8	10143.6	10209.4	10270.0	10280.5
10°	9672.2	9648.5	9740.7	9843.4	10017.2	10167.3	10264.7	10341.1	10406.9	10417.4
12.5°	9401.0	9372.0	9474.7	9614.3	9896.0	10167.3	10372.7	10472.7	10530.7	10564.9
15°	9356.2	9332.5	9390.4	9511.6	9745.9	10096.2	10446.4	10630.7	10680.8	10720.3
17.5°	9572.1	9527.4	9551.1	9593.2	9730.1	10030.3	10504.3	10809.8	10886.2	10928.3
20°	10072.5	10009.3	9972.4	9888.1	9864.4	10040.9	10499.1	11025.7	11125.8	11178.5
22.5°	10738.7	10696.6	10617.6	10404.3	10172.5	10169.9	10599.1	11302.2	11489.2	11539.2
25°	11544.5	11481.3	11381.2	11091.6	10646.5	10425.3	10767.7	11655.1	11968.5	11981.6
27.5°	12471.4	12376.6	12239.7	11857.9	11257.5	10825.6	11025.7	12060.6	12518.8	12513.6
30°	13448.4	13353.6	13208.8	12745.3	11989.5	11365.4	11383.9	12497.8	13171.9	13142.9
32.5°	14162.0	14090.9	14061.9	13703.8	12832.2	12002.7	11794.7	12982.3	13977.7	13951.3
35°	14709.7	14617.6	14651.8	14470.1	13751.2	12716.3	12297.6	13559.0	14957.3	14954.6
37.5°	15252.2	15170.6	15199.5	15078.4	14601.8	13622.2	12911.2	14264.7	16171.2	16229.2
40°	15747.3	15660.4	15776.2	15663.0	15262.7	14586.0	13609.0	15062.6	17577.4	17688.0
42.5°	16044.8	15976.4	16168.6	16171.2	15836.8	15399.7	14375.3	15942.1	19204.8	19452.4
45°	16147.5	16123.8	16413.5	16474.1	16345.0	15871.0	15065.2	16900.7	20958.6	21401.0
47.5°	16036.9	15992.2	16392.4	16616.3	16719.0	16092.2	15636.7	17938.2	22749.3	23397.1
50°	15478.7	15391.8	15986.9	16458.3	16824.3	16237.1	16213.4	19136.4	24784.8	25493.2
52.5°	14475.4	14409.5	15086.3	15905.3	16592.6	16308.2	16861.2	20445.1	26717.7	27634.1
55°	13193.0	13106.1	13851.3	14920.4	16015.9	16284.5	17509.0	21909.3	28998.2	29927.7
57.5°	11160.0	10986.2	11929.0	13193.0	15075.8	16255.5	18183.1	23365.5	31315.5	32429.4
60°	8194.9	7936.8	9092.9	10591.2	13237.7	15973.7	19017.9	24998.1	34096.3	35099.6
62.5°	4771.6	4621.5	5377.2	6775.5	9977.7	14314.7	19486.6	26896.8	36829.7	37883.0
65°	3705.1	3663.0	3728.8	3836.8	5553.7	10717.6	18040.9	28748.0	40305.7	41043.0
67.5°	3389.1	3357.5	3386.5	3183.7	2817.7	5969.7	14272.6	29216.7	44029.2	44476.8
70°	3012.5	2975.7	3070.5	2896.7	2217.3	2715.0	9221.9	27515.6	46991.7	47831.7
72.5°	2454.3	2412.1	2633.3	2554.3	1867.0	1743.3	4632.0	23473.4	46680.9	48424.2
75°	1885.5	1861.8	2125.1	2190.9	1522.1	1372.0	2222.5	17448.4	41079.9	42836.3
77.5°	1464.1	1445.7	1580.0	1819.6	1227.1	1063.9	1366.7	11067.9	30957.4	31265.5
80°	1098.1	1045.4	1169.2	1408.8	955.9	776.8	926.9	6454.3	19568.2	17738.1
82.5°	687.3	661.0	763.7	940.1	674.1	534.6	603.0	3565.5	7842.0	4618.8
85°	392.4	381.8	416.1	537.2	366.0	308.1	345.0	1574.7	1432.5	984.9
87.5°	158.0	152.7	189.6	239.6	134.3	113.2	121.1	379.2	316.0	292.3
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°
9993.5	0°	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5	9993.5
10033.0	2.5°	10022.4	10022.4	9985.6	9927.6	9861.8	9819.7	9751.2	9732.8	9661.7	9640.6
10122.5	5°	10143.6	10122.5	10009.3	9846.0	9622.2	9416.8	9190.3	9048.1	8848.0	8776.9
10298.9	7.5°	10296.3	10238.4	10043.5	9685.4	9216.6	8755.8	8276.5	7913.1	7565.5	7441.8
10443.8	10°	10435.9	10354.2	10022.4	9395.7	8584.6	7786.7	7023.1	6488.5	6083.0	5917.1
10604.4	12.5°	10575.4	10425.3	9882.9	8913.8	7686.7	6604.4	5790.7	5374.6	5124.4	4924.3
10736.1	15°	10707.1	10496.4	9666.9	8268.6	6701.8	5603.7	5003.3	4671.5	4471.4	4339.7
10928.3	17.5°	10859.8	10557.0	9343.0	7449.7	5764.3	4911.1	4421.4	4221.2	4181.7	4165.9
11191.6	20°	11073.1	10612.3	8916.4	6533.3	5074.4	4358.2	4105.4	4086.9	4084.3	4076.4
11507.6	22.5°	11302.2	10678.1	8352.9	5701.1	4487.2	4013.2	3968.4	3931.6	3907.9	3905.2
11889.5	25°	11573.5	10699.2	7647.2	5019.1	3986.9	3849.9	3797.3	3742.0	3726.2	3726.2
12324.0	27.5°	11836.8	10628.1	6825.6	4426.6	3705.1	3699.8	3631.4	3612.9	3610.3	3618.2
12819.0	30°	12100.1	10493.8	6009.2	3878.9	3541.8	3541.8	3518.1	3531.3	3541.8	3568.2
13498.4	32.5°	12455.6	10351.6	5327.2	3473.4	3399.6	3373.3	3397.0	3423.3	3433.9	3468.1
14391.1	35°	12977.0	10251.5	4784.7	3252.2	3252.2	3217.9	3231.1	3225.8	3202.1	3186.3
15470.8	37.5°	13667.0	10246.3	4337.1	3149.5	3128.4	3123.1	3125.8	3091.5	2999.4	2888.8
16776.9	40°	14496.4	10388.5	3992.1	3078.4	3062.6	3094.2	3078.4	2986.2	2733.4	2541.2
18383.2	42.5°	15610.3	10794.0	3770.9	2991.5	3038.9	3078.4	3015.2	2696.5	2525.4	2396.3
20213.4	45°	16921.7	11452.3	3657.7	2899.3	2994.1	3041.5	2736.0	2596.5	2459.5	2304.2
22209.5	47.5°	18406.9	12281.8	3631.4	2812.4	2894.0	2923.0	2617.5	2554.3	2399.0	2230.4
24216.0	50°	20023.8	13264.1	3702.5	2709.7	2749.2	2649.1	2578.0	2520.1	2359.5	2193.6
26272.7	52.5°	21696.0	14346.3	3844.7	2570.1	2604.4	2493.8	2562.2	2512.2	2335.8	2111.9
28397.8	55°	23339.1	15436.5	3981.6	2406.9	2456.9	2354.2	2517.5	2480.6	2227.8	1975.0
30665.1	57.5°	25008.7	16521.5	4115.9	2262.0	2314.7	2219.9	2446.4	2396.3	2106.7	1848.6
33140.4	60°	26744.0	17574.8	4179.1	2122.5	2159.3	2096.1	2338.4	2251.5	1969.7	1719.6
35573.6	62.5°	28368.8	18451.7	4076.4	1982.9	2006.6	1980.3	2196.2	2080.3	1832.8	1574.7
38109.5	65°	29998.8	18973.1	3760.4	1846.0	1851.2	1838.1	1996.1	1896.0	1672.2	1448.3
40329.4	67.5°	31476.1	19265.4	3257.4	1698.5	1685.3	1680.1	1809.1	1695.9	1516.8	1321.9
42017.3	70°	31789.5	18522.8	2488.5	1524.7	1524.7	1511.5	1603.7	1487.8	1345.6	1187.6
40808.6	72.5°	29035.0	15581.4	1767.0	1327.2	1348.3	1321.9	1398.3	1300.9	1171.8	1066.5
35170.7	75°	23412.9	11426.0	1285.1	1124.4	1161.3	1116.5	1187.6	1119.2	1008.6	1005.9
24237.1	77.5°	16087.0	7065.2	932.2	926.9	953.3	895.3	977.0	940.1	840.0	795.3
10549.1	80°	6865.1	2817.7	679.4	716.3	716.3	663.6	758.4	768.9	682.0	661.0
2035.6	82.5°	1366.7	800.5	476.6	492.4	463.5	447.7	537.2	595.1	821.6	913.8
613.6	85°	410.8	294.9	287.0	268.6	237.0	239.6	316.0	597.8	737.3	421.3
202.8	87.5°	113.2	73.7	76.4	60.6	50.0	65.8	108.0	452.9	247.5	105.3
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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180°  
9993.5  
9674.8  
8829.5  
7457.6  
5953.9  
4990.1  
4363.4  
4176.5  
4102.7  
3934.2  
3742.0  
3639.3  
3586.6  
3497.1  
3223.2  
2891.4  
2535.9  
2391.1  
2293.6  
2217.3  
2175.1  
2096.1  
1961.8  
1843.3  
1711.7  
1572.1  
1432.5  
1306.1  
1182.4  
*1034.9*  
905.9  
745.2  
661.0  
916.4  
363.4  
89.5  
0.0

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