

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: P956701

Luminaire Tested: **GALN-SB9B-740-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956701  
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-SB9B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

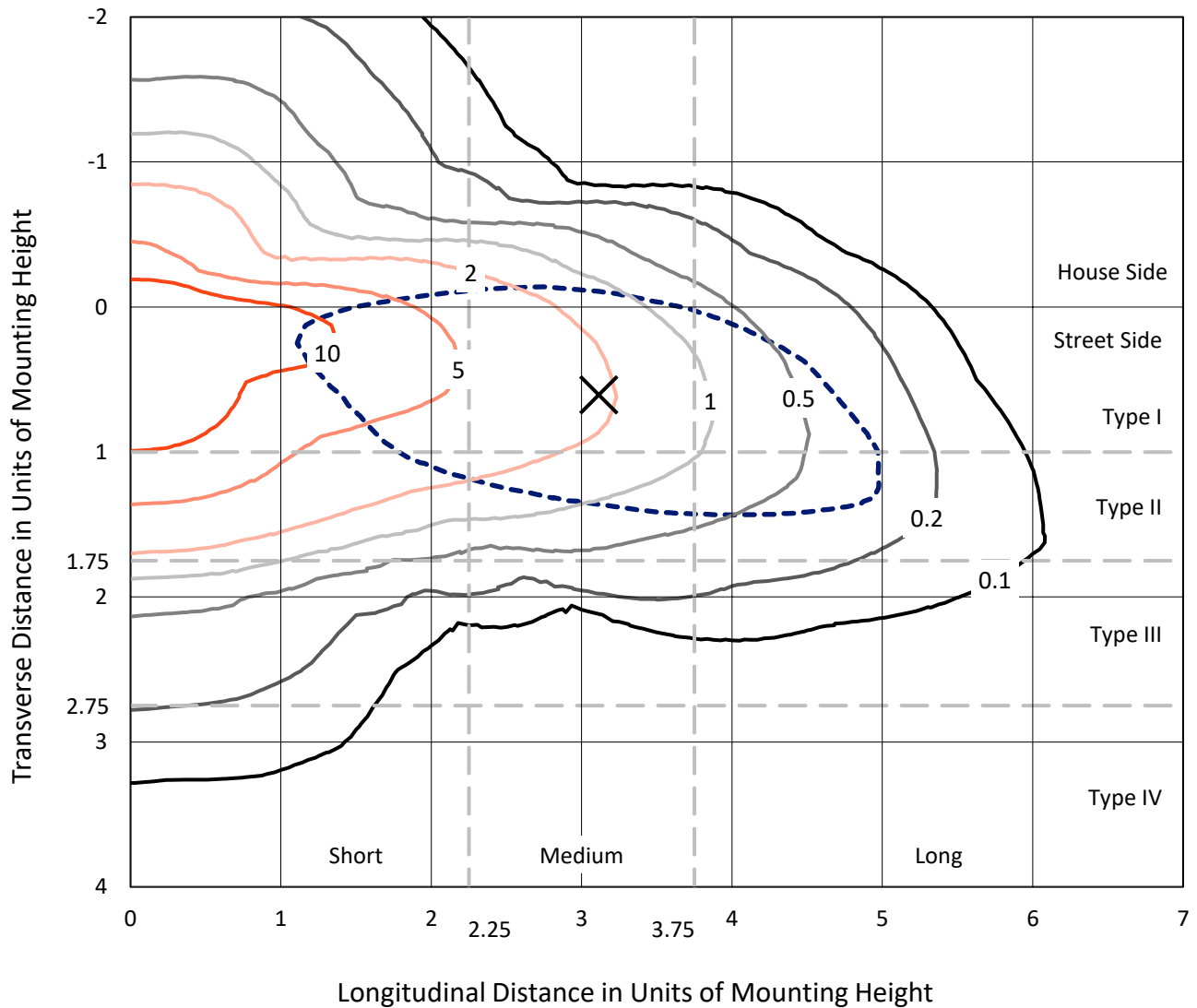
Lumens per Lamp: N/A  
Luminaire Lumens: 53935 lumens  
Efficiency: N/A  
Efficacy: 163.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

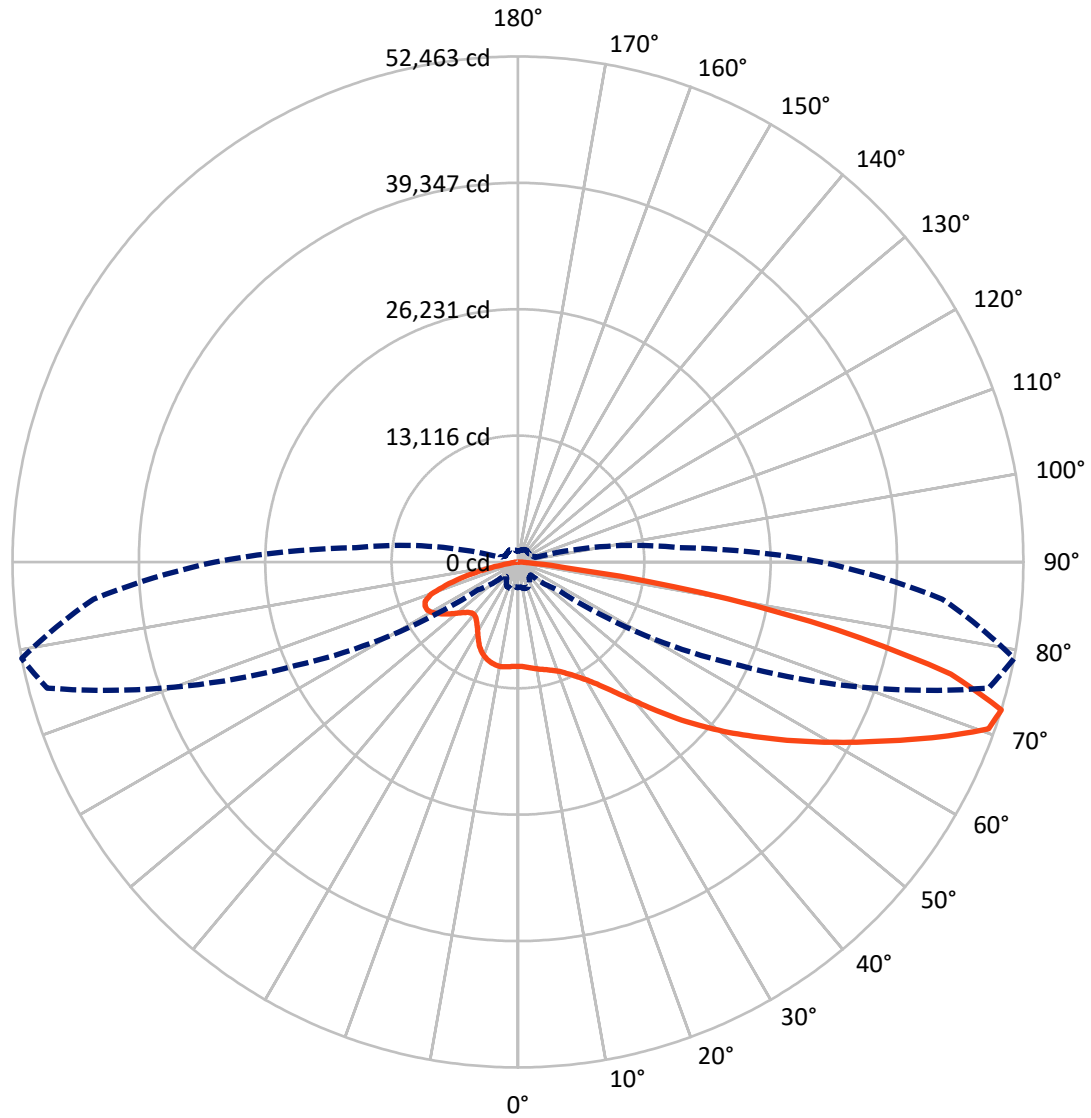
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	11868.7	0.0	11868.7
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	42066.3	0.0	42066.3
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	53935.0	0.0	53935.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.8	1.8
10°-20°	2569.5	4.8
20°-30°	4146.1	7.7
30°-40°	6222.6	11.5
40°-50°	8827.2	16.4
50°-60°	11147.5	20.7
60°-70°	11321.9	21.0
70°-80°	7716.3	14.3
80°-90°	1001.1	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°	53935.0	100.0
0°-180°	53935.0	100.0

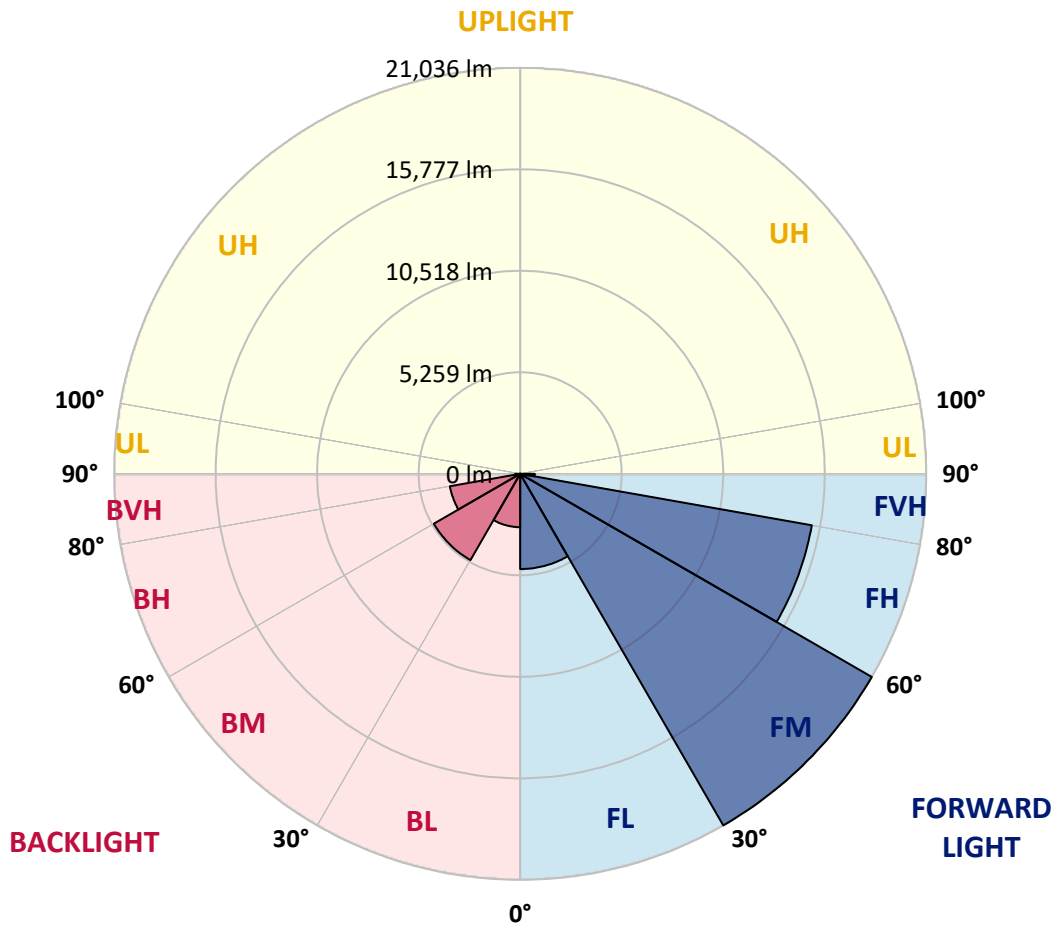


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4933.7	9.1			
FM (30°-60°)	21035.7	39.0			
FH (60°-80°)	15342.7	28.4			G5
FVH (80°-90°)	754.2	1.4			G5
BL (0°-30°)	2764.6	5.1	B4/5000		
BM (30°-60°)	5161.6	9.6	B4/8500		
BH (60°-80°)	3695.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	247.0	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°	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9
2.5°	10832.6	10781.3	10812.7	10801.3	10815.5	10832.6	10838.4	10846.9	10875.4	10872.6
5°	10809.8	10758.5	10801.3	10787.0	10824.1	10864.0	10898.3	10929.6	10975.3	10995.3
7.5°	10761.3	10727.1	10769.9	10812.7	10881.1	10941.1	10989.6	11060.9	11126.5	11137.9
10°	10478.9	10453.2	10553.1	10664.3	10852.6	11015.2	11120.8	11203.5	11274.9	11286.3
12.5°	10185.0	10153.6	10264.9	10416.1	10721.4	11015.2	11237.8	11346.2	11408.9	11446.0
15°	10136.5	10110.8	10173.6	10304.8	10558.8	10938.2	11317.6	11517.4	11571.6	11614.4
17.5°	10370.5	10322.0	10347.6	10393.3	10541.6	10866.9	11380.4	11711.4	11794.1	11839.7
20°	10912.5	10844.1	10804.1	10712.8	10687.1	10878.3	11374.7	11945.3	12053.7	12110.8
22.5°	11634.3	11588.7	11503.1	11272.0	11020.9	11018.1	11483.1	12244.9	12447.4	12501.6
25°	12507.3	12438.9	12330.4	12016.6	11534.5	11294.8	11665.7	12627.1	12966.6	12980.9
27.5°	13511.6	13408.9	13260.5	12846.8	12196.4	11728.5	11945.3	13066.5	13562.9	13557.2
30°	14570.0	14467.3	14310.4	13808.3	12989.5	12313.3	12333.3	13540.1	14270.4	14239.1
32.5°	15343.2	15266.1	15234.7	14846.7	13902.4	13003.7	12778.4	14065.0	15143.4	15114.9
35°	15936.6	15836.7	15873.8	15677.0	14898.1	13776.9	13323.3	14689.8	16204.7	16201.9
37.5°	16524.3	16435.8	16467.2	16336.0	15819.6	14758.3	13988.0	15454.4	17520.0	17582.7
40°	17060.6	16966.5	17092.0	16969.3	16535.7	15802.5	14744.0	16318.9	19043.4	19163.3
42.5°	17383.0	17308.8	17517.1	17520.0	17157.6	16684.0	15574.2	17271.7	20806.6	21074.7
45°	17494.3	17468.6	17782.4	17848.0	17708.2	17194.7	16321.7	18310.2	22706.6	23185.9
47.5°	17374.5	17326.0	17759.6	18002.1	18113.4	17434.4	16940.8	19434.3	24646.6	25348.4
50°	16769.6	16675.5	17320.2	17830.9	18227.5	17591.3	17565.6	20732.4	26851.9	27619.4
52.5°	15682.7	15611.3	16344.5	17231.8	17976.4	17668.3	18267.4	22150.3	28946.0	29938.8
55°	14293.3	14199.1	15006.5	16164.8	17351.6	17642.6	18969.3	23736.5	31416.7	32423.8
57.5°	12090.8	11902.5	12923.9	14293.3	16333.1	17611.2	19699.6	25314.2	33927.3	35134.1
60°	8878.4	8598.8	9851.2	11474.6	14341.8	17306.0	20604.0	27083.0	36940.0	38026.9
62.5°	5169.5	5006.9	5825.7	7340.6	10809.8	15508.6	21111.8	29140.0	39901.3	41042.5
65°	4014.1	3968.5	4039.8	4156.7	6016.9	11611.5	19545.5	31145.6	43667.2	44466.1
67.5°	3671.7	3637.5	3668.9	3449.2	3052.7	6467.6	15463.0	31653.5	47701.3	48186.3
70°	3263.8	3223.8	3326.5	3138.2	2402.2	2941.4	9991.0	29810.5	50910.9	51821.0
72.5°	2658.9	2613.3	2852.9	2767.4	2022.7	1888.7	5018.3	25431.2	50574.2	52462.9
75°	2042.7	2017.0	2302.3	2373.7	1649.0	1486.4	2407.9	18903.6	44506.0	46408.9
77.5°	1586.2	1566.3	1711.8	1971.4	1329.5	1152.6	1480.7	11990.9	33539.3	33873.1
80°	1189.7	1132.6	1266.7	1526.3	1035.6	841.6	1004.2	6992.6	21200.3	19217.5
82.5°	744.6	716.1	827.4	1018.5	730.4	579.1	653.3	3862.9	8496.1	5004.1
85°	425.1	413.7	450.8	582.0	396.6	333.8	373.7	1706.1	1552.0	1067.0
87.5°	171.2	165.5	205.4	259.6	145.5	122.7	131.2	410.8	342.4	316.7
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°
10826.9	0°	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9	10826.9
10869.7	2.5°	10858.3	10858.3	10818.4	10755.6	10684.3	10638.6	10564.5	10544.5	10467.5	10444.6
10966.7	5°	10989.6	10966.7	10844.1	10667.2	10424.7	10202.1	9956.8	9802.7	9585.9	9508.9
11157.9	7.5°	11155.0	11092.3	10881.1	10493.1	9985.3	9486.1	8966.8	8573.1	8196.5	8062.4
11314.8	10°	11306.2	11217.8	10858.3	10179.3	9300.6	8436.2	7608.8	7029.7	6590.3	6410.6
11488.8	12.5°	11457.4	11294.8	10707.1	9657.2	8327.8	7155.2	6273.6	5822.9	5551.8	5335.0
11631.5	15°	11600.1	11371.9	10473.2	8958.3	7260.8	6071.1	5420.6	5061.1	4844.3	4701.7
11839.7	17.5°	11765.6	11437.5	10122.3	8071.0	6245.1	5320.7	4790.1	4573.3	4530.5	4513.4
12125.0	20°	11996.6	11497.4	9660.1	7078.2	5497.6	4721.6	4447.7	4427.8	4424.9	4416.4
12467.4	22.5°	12244.9	11568.7	9049.6	6176.6	4861.4	4347.9	4299.4	4259.5	4233.8	4230.9
12881.1	25°	12538.7	11591.5	8285.0	5437.7	4319.4	4171.0	4114.0	4054.0	4036.9	4036.9
13351.8	27.5°	12824.0	11514.5	7394.8	4795.8	4014.1	4008.4	3934.2	3914.2	3911.4	3920.0
13888.2	30°	13109.3	11369.0	6510.4	4202.4	3837.2	3837.2	3811.5	3825.8	3837.2	3865.7
14624.2	32.5°	13494.4	11214.9	5771.5	3763.0	3683.2	3654.6	3680.3	3708.8	3720.2	3757.3
15591.4	35°	14059.3	11106.5	5183.8	3523.4	3523.4	3486.3	3500.6	3494.9	3469.2	3452.1
16761.1	37.5°	14806.8	11100.8	4698.8	3412.1	3389.3	3383.6	3386.4	3349.4	3249.5	3129.7
18176.1	40°	15705.5	11254.9	4325.1	3335.1	3318.0	3352.2	3335.1	3235.2	2961.4	2753.1
19916.4	42.5°	16912.3	11694.2	4085.4	3240.9	3292.3	3335.1	3266.6	2921.4	2736.0	2596.2
21899.2	45°	18333.0	12407.5	3962.7	3141.1	3243.8	3295.2	2964.2	2813.0	2664.7	2496.3
24061.8	47.5°	19942.1	13306.2	3934.2	3046.9	3135.4	3166.8	2835.8	2767.4	2599.0	2416.4
26235.7	50°	21693.8	14370.3	4011.2	2935.7	2978.5	2870.1	2793.0	2730.3	2556.2	2376.5
28463.9	52.5°	23505.4	15542.9	4165.3	2784.5	2821.6	2701.7	2775.9	2721.7	2530.6	2288.1
30766.2	55°	25285.7	16724.0	4313.7	2607.6	2661.8	2550.5	2727.4	2687.5	2413.6	2139.7
33222.6	57.5°	27094.4	17899.4	4459.2	2450.7	2507.7	2405.0	2650.4	2596.2	2282.4	2002.8
35904.4	60°	28974.5	19040.6	4527.6	2299.5	2339.4	2270.9	2533.4	2439.3	2134.0	1863.0
38540.5	62.5°	30734.8	19990.6	4416.4	2148.3	2173.9	2145.4	2379.4	2253.8	1985.7	1706.1
41287.9	65°	32500.8	20555.5	4074.0	1999.9	2005.6	1991.4	2162.5	2054.1	1811.6	1569.1
43692.9	67.5°	34101.3	20872.2	3529.1	1840.2	1825.9	1820.2	1960.0	1837.3	1643.3	1432.2
45521.6	70°	34440.8	20067.6	2696.0	1651.9	1651.9	1637.6	1737.4	1611.9	1457.9	1286.7
44212.1	72.5°	31456.6	16880.9	1914.3	1437.9	1460.7	1432.2	1514.9	1409.4	1269.6	1155.4
38104.0	75°	25365.6	12378.9	1392.2	1218.2	1258.2	1209.7	1286.7	1212.5	1092.7	1089.8
26258.5	77.5°	17428.7	7654.5	1009.9	1004.2	1032.8	970.0	1058.4	1018.5	910.1	861.6
11428.9	80°	7437.6	3052.7	736.1	776.0	776.0	718.9	821.6	833.1	738.9	716.1
2205.3	82.5°	1480.7	867.3	516.4	533.5	502.1	485.0	582.0	644.8	890.1	990.0
664.7	85°	445.1	319.5	311.0	291.0	256.8	259.6	342.4	647.6	798.8	456.5
219.7	87.5°	122.7	79.9	82.7	65.6	54.2	71.3	117.0	490.7	268.2	114.1
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°  
10826.9  
10481.7  
9565.9  
8079.5  
6450.5  
5406.3  
4727.3  
4524.8  
4444.9  
4262.3  
4054.0  
3942.8  
3885.7  
3788.7  
3492.0  
3132.5  
2747.4  
2590.5  
2484.9  
2402.2  
2356.5  
2270.9  
2125.4  
1997.1  
1854.4  
1703.2  
1552.0  
1415.1  
1281.0  
*1121.2*  
981.4  
807.4  
716.1  
992.8  
393.7  
97.0  
0.0

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