

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: P957396

Luminaire Tested: **GALN-SB9D-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

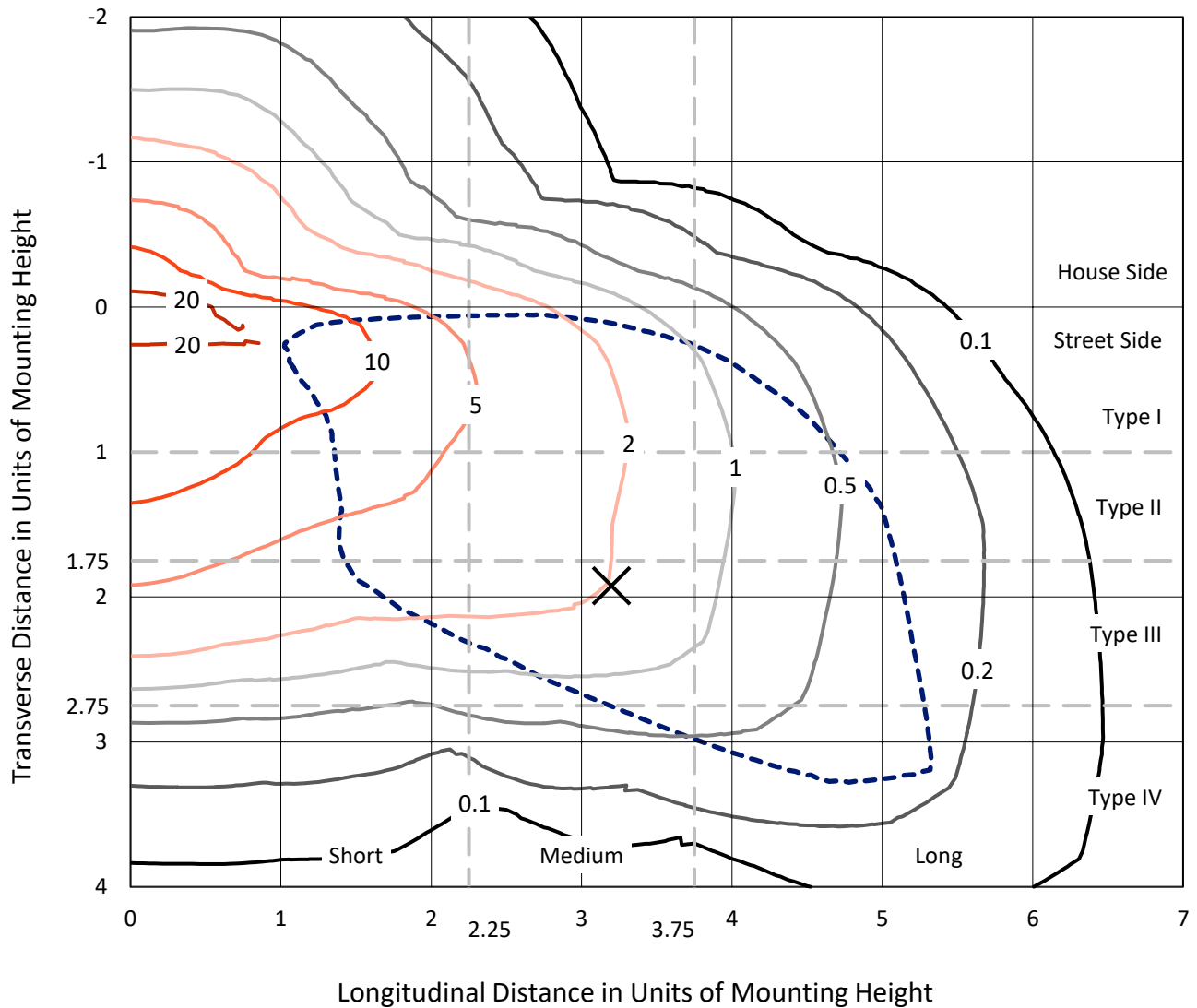
Lumens per Lamp: N/A  
Luminaire Lumens: 90586 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

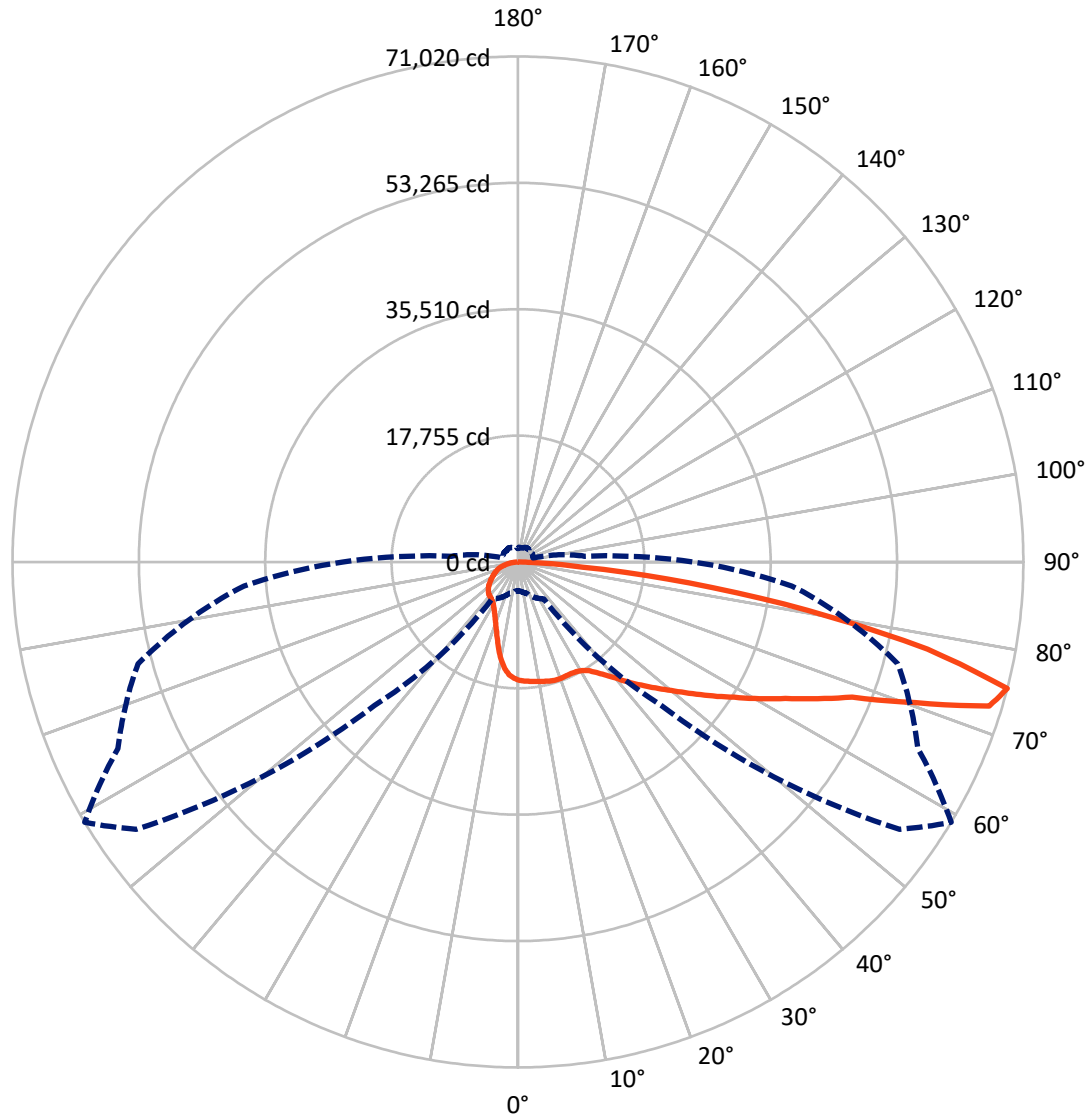
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16990.0	0.0	16990.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	73596.0	0.0	73596.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	90586.0	0.0	90586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1490.9	1.6
10°-20°	3810.7	4.2
20°-30°	5788.2	6.4
30°-40°	8604.0	9.5
40°-50°	12795.7	14.1
50°-60°	17368.7	19.2
60°-70°	21204.3	23.4
70°-80°	16640.8	18.4
80°-90°	2882.6	3.2
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°	90586.0	100.0
0°-180°	90586.0	100.0

**Coefficient of Utilization**



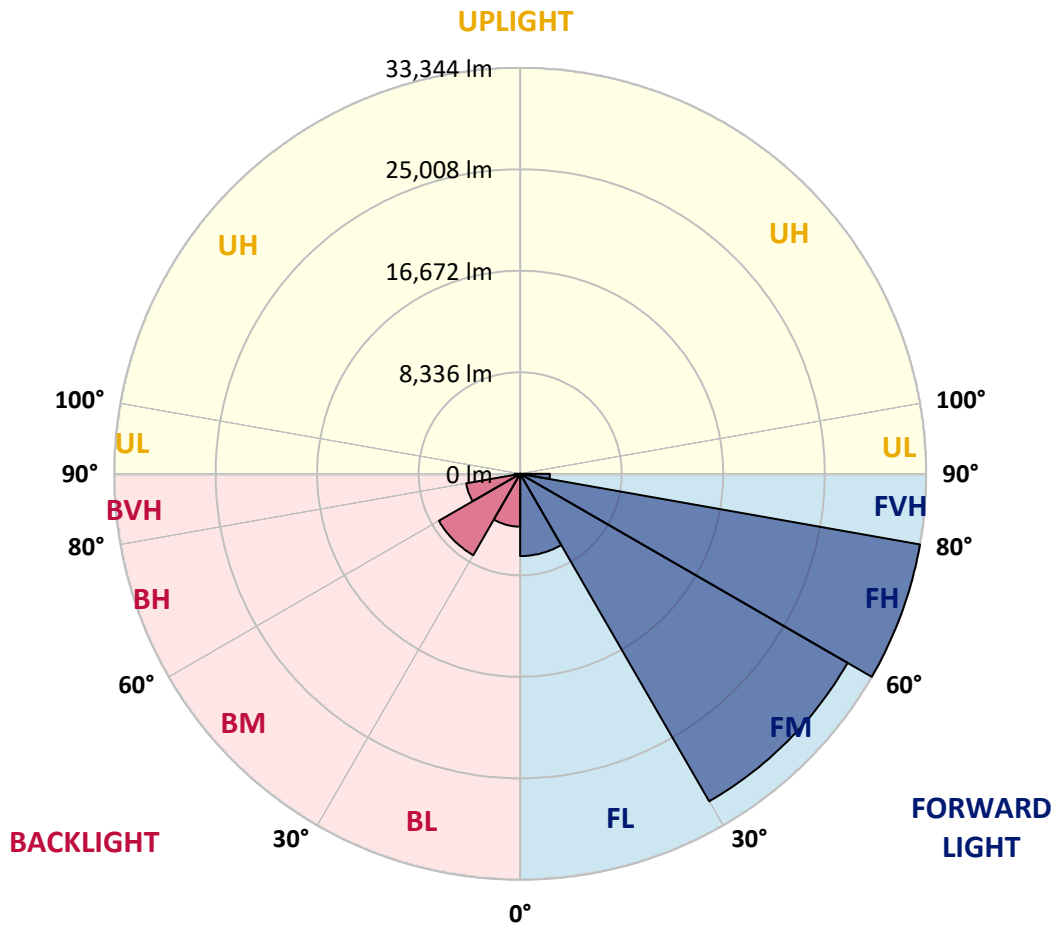
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6754.2	7.5			
FM (30°-60°)	31056.6	34.3			
FH (60°-80°)	33343.8	36.8			G5
FVH (80°-90°)	2441.3	2.7			G5
BL (0°-30°)	4335.7	4.8	B4/5000		
BM (30°-60°)	7711.8	8.5	B4/8500		
BH (60°-80°)	4501.3	5.0	B4/5000		G4/5000
BVH (80°-90°)	441.3	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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9
2.5°	16768.2	16709.7	16768.2	16743.8	16734.1	16714.6	16719.4	16753.6	16734.1	16758.4
5°	16656.1	16622.0	16680.5	16665.8	16729.2	16738.9	16802.3	16841.3	16865.6	16870.5
7.5°	16470.9	16436.8	16519.7	16587.9	16724.3	16763.3	16894.9	16958.2	16992.3	17050.8
10°	15793.6	15778.9	15983.6	16241.9	16563.5	16763.3	16963.1	17070.3	17123.9	17279.8
12.5°	14594.8	14614.3	14882.3	15379.4	16022.6	16665.8	17041.1	17197.0	17279.8	17474.8
15°	13449.6	13444.8	13737.1	14268.3	15169.8	16237.0	17080.1	17348.1	17489.4	17776.9
17.5°	12786.9	12767.4	12972.1	13376.5	14214.7	15579.2	16982.6	17430.9	17733.0	18093.6
20°	12665.1	12626.1	12733.3	12933.1	13527.6	14857.9	16729.2	17430.9	17928.0	18395.8
22.5°	13108.5	13045.2	13001.3	12976.9	13240.1	14263.4	16441.7	17372.4	18215.5	18829.5
25°	14000.3	13902.8	13678.7	13459.4	13381.4	13995.4	16188.3	17357.8	18644.3	19414.2
27.5°	15442.7	15320.9	14867.7	14341.4	13868.7	14131.9	16076.2	17445.5	19117.0	20033.1
30°	17231.1	17099.5	16529.4	15720.5	14872.6	14638.7	16217.5	17703.8	19721.2	20856.7
32.5°	18834.4	18688.2	18200.9	17377.3	16232.1	15515.8	16665.8	18196.0	20671.5	22001.8
35°	20257.3	20086.7	19648.2	18888.0	17898.7	16748.7	17474.8	19068.3	22021.3	23863.3
37.5°	21651.0	21451.2	20973.6	20169.6	19477.6	18390.9	18590.7	20189.1	23814.6	26124.4
40°	23210.4	22922.8	22343.0	21548.6	20876.2	20315.8	20057.5	21563.3	25637.1	28648.7
42.5°	24721.0	24448.1	23756.1	23078.8	22235.7	22074.9	21758.2	23171.4	27630.2	31421.4
45°	26348.6	26022.1	25183.9	24326.3	23795.1	23244.5	23405.3	24779.5	29584.3	34247.8
47.5°	27873.9	27508.4	26519.2	25564.0	25271.7	24228.8	24915.9	26548.4	31616.4	37113.2
50°	28697.4	28336.8	27513.3	26650.7	26421.7	25442.2	26553.3	28492.7	33745.9	39968.8
52.5°	29384.5	28994.7	27917.7	27440.2	27371.9	26762.8	28570.7	30714.9	35875.4	42493.0
55°	30115.5	29681.8	28307.6	27878.7	28190.6	28244.2	30963.4	33234.2	38126.8	44953.9
57.5°	30958.5	30407.9	28682.8	28249.1	28989.8	29979.0	33711.8	35846.2	40339.1	47234.5
60°	31752.8	31197.3	29404.0	28838.7	29852.3	31991.6	36864.6	39008.8	42843.9	49266.6
62.5°	31908.8	31450.7	29979.0	29974.2	31021.9	34340.4	40597.4	42200.6	45031.9	51274.3
65°	29209.1	28921.6	28049.3	29930.3	32698.2	37722.3	44754.1	46284.3	47814.4	53028.6
67.5°	22230.9	22269.9	22206.5	25836.9	31343.5	42580.7	50772.3	50655.4	51249.9	54997.3
70°	10165.2	10394.2	11885.4	17835.4	25110.8	43141.1	60723.1	59207.6	55562.6	57545.9
72.5°	5491.9	5667.4	6276.5	8639.9	15096.7	38355.8	68159.4	69236.3	61298.1	59261.2
75°	4030.0	4127.5	4551.4	5491.9	6339.8	28507.4	65493.8	71019.9	62014.5	55260.4
77.5°	3016.4	3060.3	3406.3	4351.6	3245.5	15028.5	52331.7	58817.8	53087.0	45402.2
80°	2188.0	2236.7	2495.0	3264.9	2275.7	5496.8	35933.9	41284.5	36357.9	28941.1
82.5°	1510.6	1530.1	1642.2	2222.1	1588.6	2134.4	20388.9	24209.3	20296.3	10155.4
85°	911.3	935.6	984.4	1296.2	901.5	1013.6	8800.7	9102.9	6067.0	2426.8
87.5°	375.2	399.6	438.6	545.8	355.7	282.6	1452.2	1822.5	1135.4	711.5
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°
16626.9	0°	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9	16626.9
16675.6	2.5°	16651.2	16617.1	16524.5	16397.8	16280.9	16134.7	16071.3	16017.7	15969.0	15876.4
16807.2	5°	16753.6	16661.0	16412.4	16090.8	15725.3	15325.8	14935.9	14667.9	14438.9	14268.3
16958.2	7.5°	16909.5	16734.1	16280.9	15623.0	14784.8	13927.2	13152.4	12601.7	12187.5	12036.4
17172.6	10°	17070.3	16860.8	16071.3	14911.5	13464.2	12143.6	11115.4	10550.2	10218.8	10111.6
17426.0	12.5°	17260.4	16953.4	15744.8	13922.3	11987.7	10540.4	9643.8	9312.4	9141.8	9083.4
17737.9	15°	17538.1	17031.3	15252.7	12684.6	10579.4	9370.9	8791.0	8562.0	8474.2	8469.4
18059.5	17.5°	17747.7	17045.9	14487.6	11359.1	9497.6	8664.3	8186.7	8099.0	8157.5	8245.2
18376.3	20°	17981.6	16914.4	13483.7	10150.6	8737.4	8045.4	7845.6	7904.1	8045.4	8172.1
18795.4	22.5°	18147.3	16675.6	12270.3	9210.1	8079.5	7689.7	7679.9	7801.8	7879.7	7943.1
19287.5	25°	18293.4	16271.1	10983.9	8420.6	7538.6	7475.3	7582.5	7543.5	7489.9	7543.5
19779.7	27.5°	18400.6	15632.8	9833.8	7728.7	7158.5	7329.1	7265.7	7178.0	7173.1	7202.4
20359.6	30°	18366.5	14780.0	8888.4	7070.8	6890.5	7056.2	6905.1	6890.5	6875.9	6890.5
21231.9	32.5°	18366.5	13810.2	8162.4	6617.6	6719.9	6656.6	6642.0	6607.9	6549.4	6544.5
22416.0	35°	18468.9	12840.5	7538.6	6374.0	6578.6	6427.6	6437.3	6354.5	6232.6	6174.2
23985.2	37.5°	18678.4	12060.8	6919.7	6257.0	6330.1	6325.2	6286.2	6144.9	5930.5	5745.3
25944.1	40°	19185.2	11831.8	6495.8	6203.4	6213.1	6271.6	6169.3	5896.4	5409.1	5107.0
27932.3	42.5°	19979.5	12216.7	6403.2	6071.8	6135.2	6193.7	5993.9	5360.4	5014.4	4834.1
30018.0	45°	20988.2	12889.2	6603.0	5881.8	5950.0	6052.3	5457.8	5155.7	4999.8	5004.6
32084.2	47.5°	22265.0	13595.8	6973.3	5716.1	5682.0	5740.5	5102.1	4916.9	4702.5	4756.1
34067.5	50°	23741.5	14312.2	7324.2	5491.9	5384.7	5194.7	4873.1	4697.6	4424.7	4298.0
35982.6	52.5°	25339.9	15004.1	7465.5	5219.0	5063.1	4843.8	4717.1	4502.7	4171.3	3961.8
37790.5	55°	26855.4	15632.8	7309.6	4892.5	4741.5	4570.9	4551.4	4419.9	4064.1	3771.7
39398.6	57.5°	28288.1	16159.0	6919.7	4561.2	4415.0	4312.7	4444.2	4380.9	3932.6	3557.3
40919.0	60°	29501.5	16519.7	6354.5	4224.9	4122.6	4069.0	4268.8	4249.3	3747.4	3328.3
42283.5	62.5°	30466.3	16661.0	5730.7	3903.3	3879.0	3781.5	4025.1	4025.1	3513.5	3104.1
43482.3	65°	31221.7	16524.5	5097.2	3586.6	3635.3	3489.1	3727.9	3698.6	3264.9	2904.3
44861.3	67.5°	31889.3	16076.2	4395.5	3274.7	3386.8	3201.6	3416.0	3347.8	2992.1	2704.5
46055.2	70°	32186.5	15033.4	3596.3	2962.8	3099.3	2919.0	3104.1	2977.4	2685.1	2490.1
44744.4	72.5°	29798.7	12494.5	2831.2	2636.3	2753.3	2607.1	2767.9	2621.7	2353.7	2266.0
38638.4	75°	24652.8	9375.8	2178.3	2280.6	2368.3	2256.2	2363.4	2256.2	2012.6	2075.9
28541.5	77.5°	17903.6	6330.1	1666.6	1905.4	1944.3	1885.9	1978.5	1856.6	1637.3	1622.7
14224.4	80°	8903.1	3708.4	1306.0	1505.8	1491.2	1452.2	1559.4	1500.9	1315.7	1393.7
3840.0	82.5°	2577.8	1588.6	950.2	1057.5	1028.2	1038.0	1115.9	1145.2	1715.3	1700.7
1193.9	85°	808.9	623.8	570.1	589.6	560.4	575.0	657.9	1306.0	1208.5	706.6
370.4	87.5°	209.5	214.4	141.3	151.1	155.9	185.2	209.5	794.3	380.1	248.5
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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180°  
16626.9  
15832.6  
14127.0  
11773.3  
9945.9  
9098.0  
8488.9  
8279.3  
8216.0  
7977.2  
7577.6  
7251.1  
6944.1  
6607.9  
6232.6  
5808.7  
5145.9  
4834.1  
5029.0  
4892.5  
4332.1  
3956.9  
3771.7  
3537.8  
3313.7  
3089.5  
2884.8  
2685.1  
2451.1  
2192.9  
*1895.6*  
1549.6  
1379.1  
1739.7  
765.1  
263.1  
0.0

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