

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: P955984

Luminaire Tested: **GALN-SB8D-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

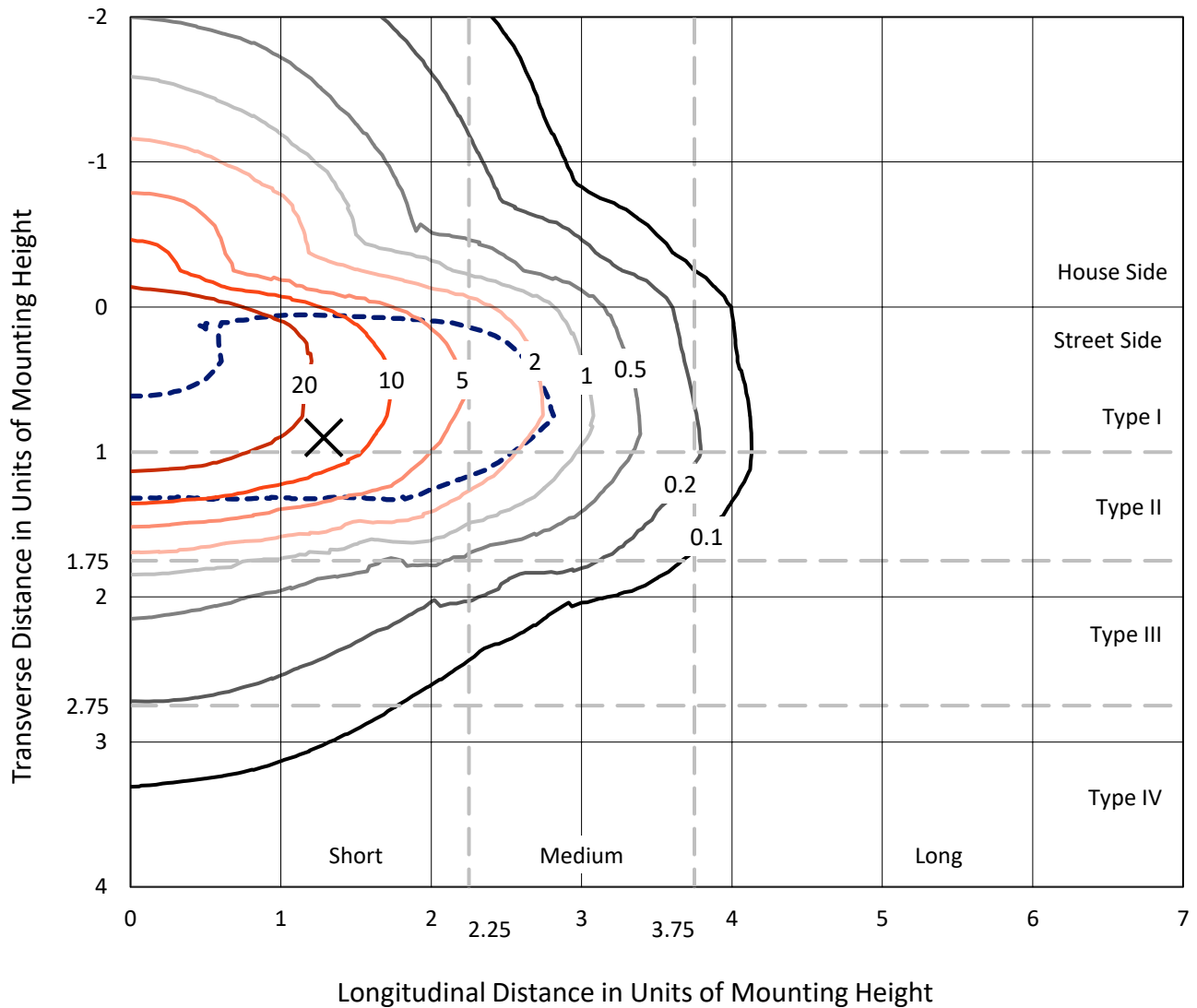
Lumens per Lamp: N/A  
Luminaire Lumens: 88538 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

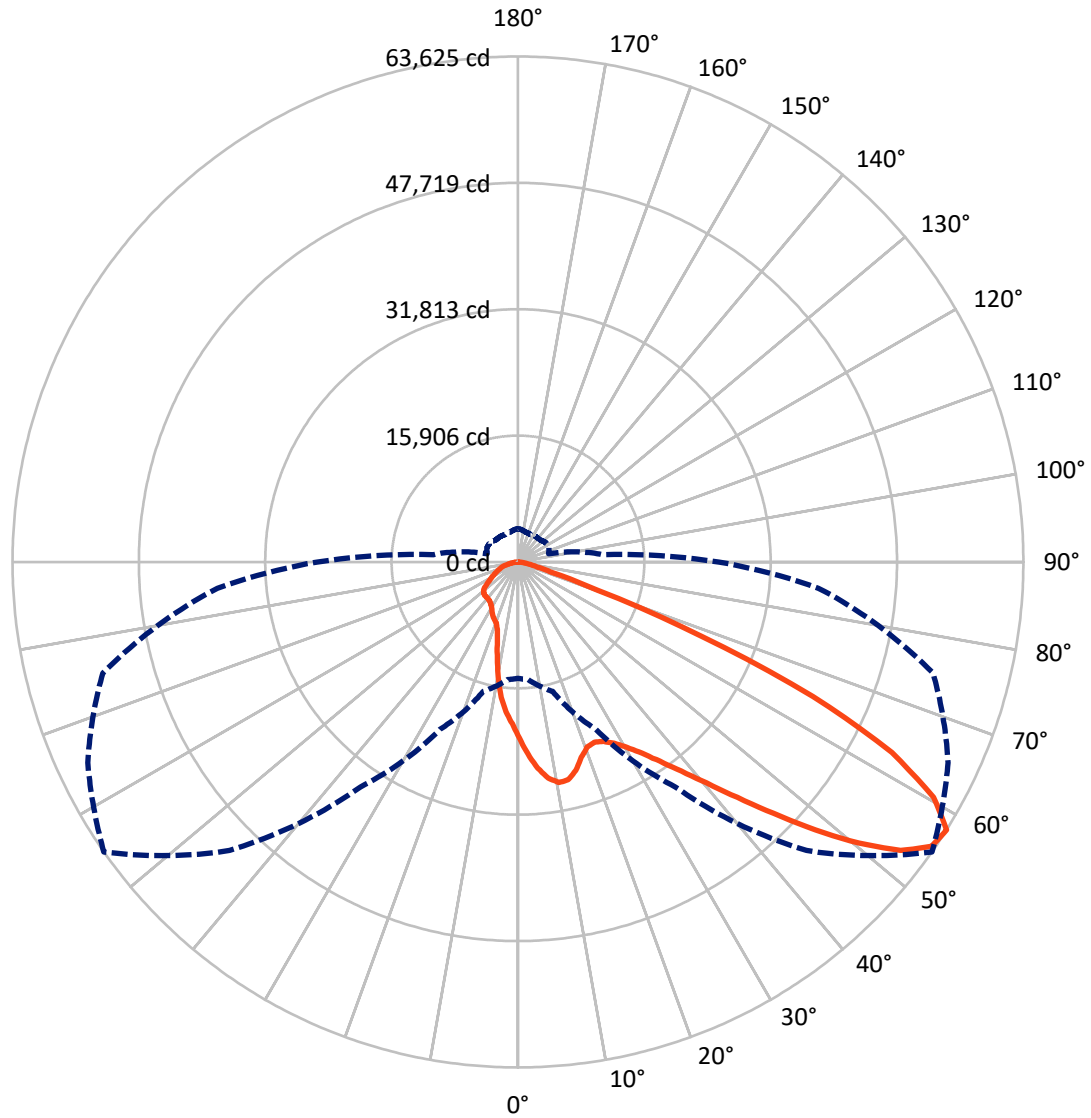
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 42.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16020.5	0.0	16020.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	72517.5	0.0	72517.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	88538.0	0.0	88538.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2058.6	2.3
10°-20°	5196.0	5.9
20°-30°	8291.4	9.4
30°-40°	13127.3	14.8
40°-50°	20092.7	22.7
50°-60°	21521.2	24.3
60°-70°	13539.1	15.3
70°-80°	4003.8	4.5
80°-90°	707.9	0.8
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°	88538.0	100.0
0°-180°	88538.0	100.0



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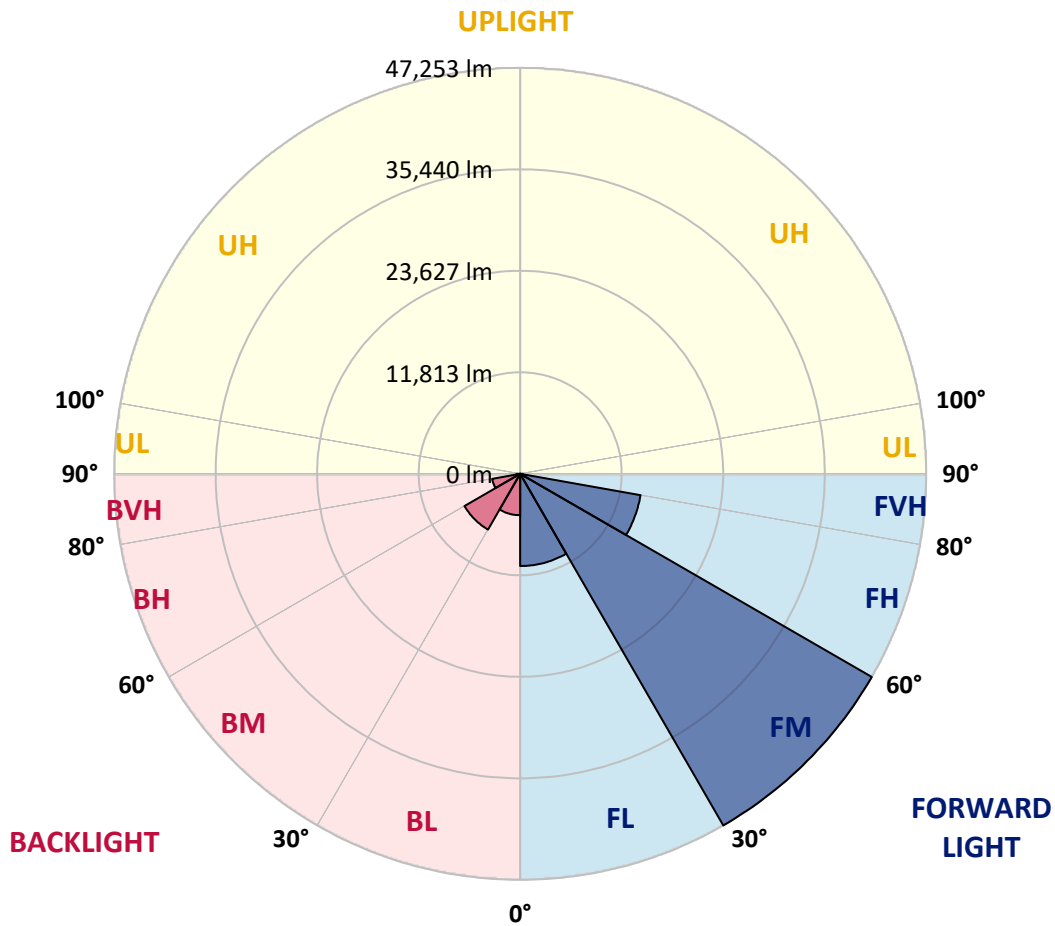
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10730.8	12.1			
FM (30°-60°)	47253.4	53.4			
FH (60°-80°)	14234.2	16.1			G5
FVH (80°-90°)	299.1	0.3			G3/500
BL (0°-30°)	4815.2	5.4	B4/5000		
BM (30°-60°)	7487.8	8.5	B4/8500		
BH (60°-80°)	3308.6	3.7	B4/5000		G4/5000
BVH (80°-90°)	408.8	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7
2.5°	25452.7	25434.4	25535.1	25191.8	24958.4	24642.6	24226.1	23695.2	23123.0	22518.9
5°	27745.8	27585.6	27690.9	27434.6	27178.3	26702.3	26084.4	25219.3	24162.0	22958.3
7.5°	27384.2	27274.4	27544.4	27773.3	27965.5	27906.0	27452.9	26546.6	25182.7	23434.3
10°	24468.7	24345.1	24725.0	25516.8	26679.4	27690.9	28240.1	27677.2	26226.2	23956.1
12.5°	21896.4	21836.9	22088.6	22729.4	24020.1	25960.8	28139.4	28665.8	27311.0	24573.9
15°	20797.9	20724.7	20884.9	21209.8	22033.7	23841.6	27224.0	29343.2	28377.4	25288.0
17.5°	20555.3	20472.9	20541.6	20711.0	21241.9	22619.6	25841.8	29677.3	29489.7	26084.4
20°	21003.9	20935.2	20944.4	20935.2	21306.0	22399.9	24880.6	29549.2	30460.0	26816.7
22.5°	22088.6	21974.2	21978.8	21736.2	21937.6	22784.3	24628.9	29205.9	31325.0	27457.5
25°	23855.4	23649.4	23690.6	23072.7	23017.8	23644.8	25022.5	28940.4	32185.5	27970.1
27.5°	26272.0	26038.6	25915.0	24995.0	24555.6	24866.9	25823.5	29032.0	33000.2	28414.1
30°	29292.8	29009.1	28757.3	27452.9	26656.5	26542.1	27068.4	29636.1	33961.4	28880.9
32.5°	32995.6	32666.1	32208.4	30478.3	29356.9	28757.3	28679.5	30711.7	35087.3	29475.9
35°	37403.3	36973.1	36323.1	34085.0	32666.1	31439.5	30803.3	32263.3	36629.8	30373.0
37.5°	41943.7	41458.5	40863.5	38199.7	36455.9	34647.9	33393.8	34368.7	38684.9	31590.5
40°	46131.6	45587.0	45033.2	42662.3	40790.3	38611.6	36565.7	37032.6	41197.6	33046.0
42.5°	48603.2	48200.5	47989.9	46708.3	45262.0	43051.3	40511.1	40190.7	44021.6	34721.2
45°	48493.4	48328.6	48978.5	49509.5	49166.2	47939.6	45133.9	43682.9	46854.8	36172.1
47.5°	45902.8	46012.6	47463.6	50447.8	51761.4	52402.1	50397.4	47111.1	49317.2	37256.8
50°	38854.2	38945.7	42305.3	48740.5	52429.6	56040.9	55619.8	50456.9	51225.9	37920.5
52.5°	33274.8	33334.3	34776.1	43678.4	50223.5	57871.7	60324.9	53610.5	52621.8	38103.6
55°	25063.7	25269.7	26885.3	34268.0	44483.9	56420.8	63190.1	56860.1	53505.2	38121.9
57.5°	14641.8	14866.1	16861.7	23260.3	34574.7	51363.2	63625.0	59743.7	54104.8	37975.4
60°	7172.2	7268.3	8137.9	12225.2	21319.7	41618.7	60128.1	61139.6	54438.9	37897.6
62.5°	4833.3	4819.6	4856.2	6032.5	10504.2	26738.9	52841.5	58695.5	54260.4	37600.1
65°	4155.9	4105.6	3968.3	4233.7	5442.1	12229.8	40826.9	51399.8	52901.0	36854.1
67.5°	3592.9	3597.5	3602.1	3519.7	3885.9	5643.4	24949.3	40488.2	48021.9	33320.6
70°	2975.1	3016.2	3034.6	3034.6	3167.3	3702.8	10650.7	27750.4	37879.3	26125.6
72.5°	2709.6	2622.6	2631.8	2586.0	2586.0	2819.4	4288.7	15731.2	23864.5	14696.8
75°	2210.7	2265.6	2274.8	2242.7	2137.5	2151.2	2544.8	6600.0	10211.3	6096.6
77.5°	1908.6	1908.6	1926.9	1904.0	1821.6	1611.1	1698.1	2558.5	3473.9	2499.0
80°	1533.3	1528.7	1606.5	1652.3	1524.1	1190.0	1084.8	1414.3	1542.5	1098.5
82.5°	746.1	791.8	1103.1	1258.7	1158.0	860.5	663.7	878.8	823.9	485.2
85°	434.8	411.9	494.3	700.3	663.7	476.0	320.4	457.7	430.2	247.2
87.5°	137.3	128.2	100.7	238.0	192.2	132.7	87.0	132.7	119.0	54.9
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
22184.7	0°	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7	22184.7
22258.0	2.5°	21933.0	21392.9	20857.4	20367.7	20070.2	19877.9	19685.7	19470.6	19388.2	19264.6
22317.5	5°	21713.3	20669.8	19740.6	18939.7	18211.9	17639.8	17063.1	16596.2	16385.7	16527.6
22505.1	7.5°	21585.2	20074.7	18642.1	17172.9	15758.6	14628.1	13644.1	12952.9	12641.7	12719.5
22688.2	10°	21470.7	19401.9	17218.7	14898.2	12866.0	11465.4	10458.5	9932.1	9735.3	9776.5
22935.4	12.5°	21365.5	18646.7	15502.3	12449.5	10289.1	9364.6	9076.2	9080.8	9117.4	9144.9
23329.0	15°	21347.2	17735.9	13584.6	10307.4	8897.7	8838.2	9149.4	9346.2	9451.5	9483.6
23658.5	17.5°	21319.7	16646.6	11630.2	8847.4	8559.0	8961.8	9250.1	9378.3	9460.7	9465.2
23978.9	20°	21209.8	15264.3	9826.8	8151.6	8485.8	8833.6	9012.1	9112.8	9181.5	9204.4
24221.5	22.5°	20871.1	13726.4	8421.7	7840.4	8192.8	8472.0	8682.6	8797.0	8838.2	8865.7
24267.3	25°	20262.4	12005.5	7451.4	7542.9	7785.5	8137.9	8307.3	8330.2	8316.4	8357.6
24152.9	27.5°	19466.0	10161.0	6847.2	7140.1	7451.4	7753.4	7845.0	7831.3	7803.8	7849.6
23956.1	30°	18504.8	8504.1	6462.7	6687.0	7112.7	7387.3	7469.7	7437.6	7382.7	7433.1
23855.4	32.5°	17488.7	7149.3	6146.9	6371.2	6833.5	7103.5	7185.9	7153.9	7112.7	7153.9
23969.8	35°	16541.3	6201.8	5854.0	6160.7	6613.8	6879.2	6984.5	6989.1	6989.1	7039.4
24271.9	37.5°	15671.7	5648.0	5611.4	6027.9	6462.7	6700.7	6851.8	6860.9	6664.1	6677.9
24784.5	40°	14866.1	5414.6	5501.6	5941.0	6316.3	6545.1	6554.3	6041.6	5680.1	5670.9
25370.3	42.5°	14207.0	5368.8	5533.6	5931.8	6211.0	6220.2	5574.8	5176.6	5075.9	5080.5
25910.4	45°	13589.1	5355.1	5606.8	5931.8	6055.4	5373.4	4938.6	4833.3	4842.5	4879.1
26153.0	47.5°	12898.0	5300.2	5620.6	5849.4	5606.8	4778.4	4650.2	4604.5	4586.2	4595.3
26098.1	50°	12142.8	5103.4	5446.6	5684.6	4837.9	4522.1	4361.9	4348.2	4371.0	4384.8
25791.4	52.5°	11346.4	4783.0	5149.1	5387.1	4485.5	4297.8	4119.3	4151.3	4252.0	4284.1
25471.0	55°	10824.6	4407.7	4755.5	4792.1	4238.3	4087.3	3936.2	4009.5	4197.1	4256.6
25278.8	57.5°	10687.3	4009.5	4307.0	4265.8	3922.5	3904.2	3812.6	3876.7	4114.7	4201.7
25269.7	60°	10646.1	3652.5	3867.6	3835.5	3615.8	3702.8	3679.9	3712.0	3794.3	3821.8
25178.1	62.5°	10325.7	3368.7	3473.9	3428.2	3341.2	3492.3	3547.2	3478.5	3542.6	3574.6
24551.1	65°	9511.0	3139.8	3089.5	3057.4	3094.1	3231.4	3341.2	3203.9	3263.4	3354.9
22134.4	67.5°	8165.4	2828.6	2691.3	2727.9	2842.3	2915.6	3057.4	2901.8	2952.2	3107.8
17827.4	70°	6604.6	2435.0	2311.4	2416.7	2526.5	2677.5	2700.4	2595.2	2714.2	2888.1
10879.5	72.5°	4673.1	2036.8	1949.8	2164.9	2201.5	2398.4	2348.0	2297.7	2462.4	2521.9
5378.0	75°	3240.5	1643.1	1592.8	1757.6	1890.3	2059.7	2023.0	2082.5	2430.4	2457.9
2686.7	77.5°	2050.5	1277.0	1244.9	1350.2	1533.3	1721.0	1780.5	2457.9	4151.3	4316.1
1396.0	80°	1190.0	952.0	915.4	997.8	1158.0	1331.9	1716.4	3016.2	2737.0	2705.0
627.0	82.5°	663.7	654.5	608.7	631.6	773.5	961.2	2425.8	2123.7	1725.5	1780.5
251.7	85°	311.2	384.5	329.5	315.8	434.8	1125.9	1620.3	1212.9	805.6	787.2
54.9	87.5°	82.4	73.2	73.2	82.4	183.1	970.3	645.4	517.2	306.7	297.5
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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