

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: P957597

Luminaire Tested: **GALN-SB9D-927-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-927-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

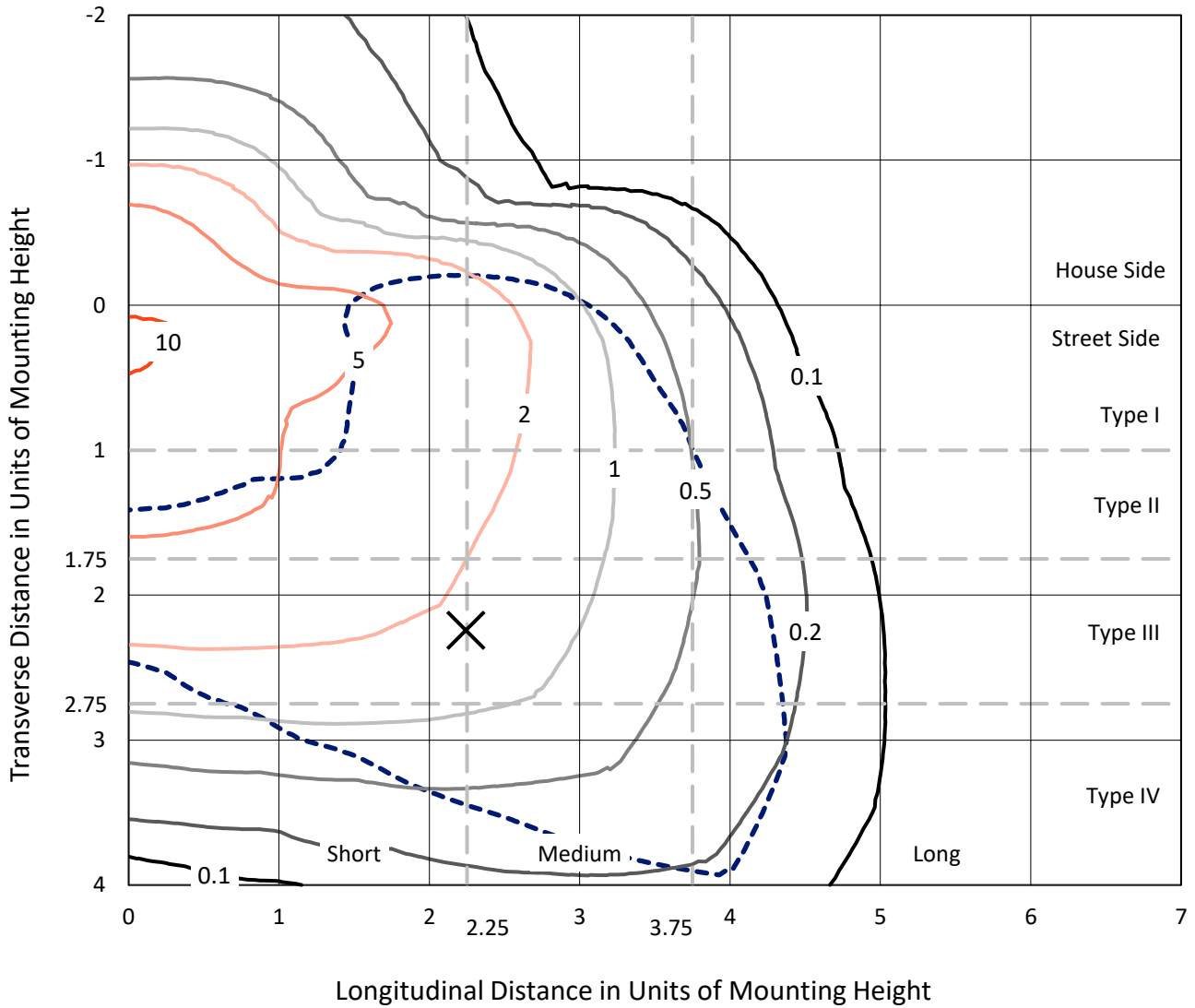
Lumens per Lamp: N/A  
Luminaire Lumens: 56308 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

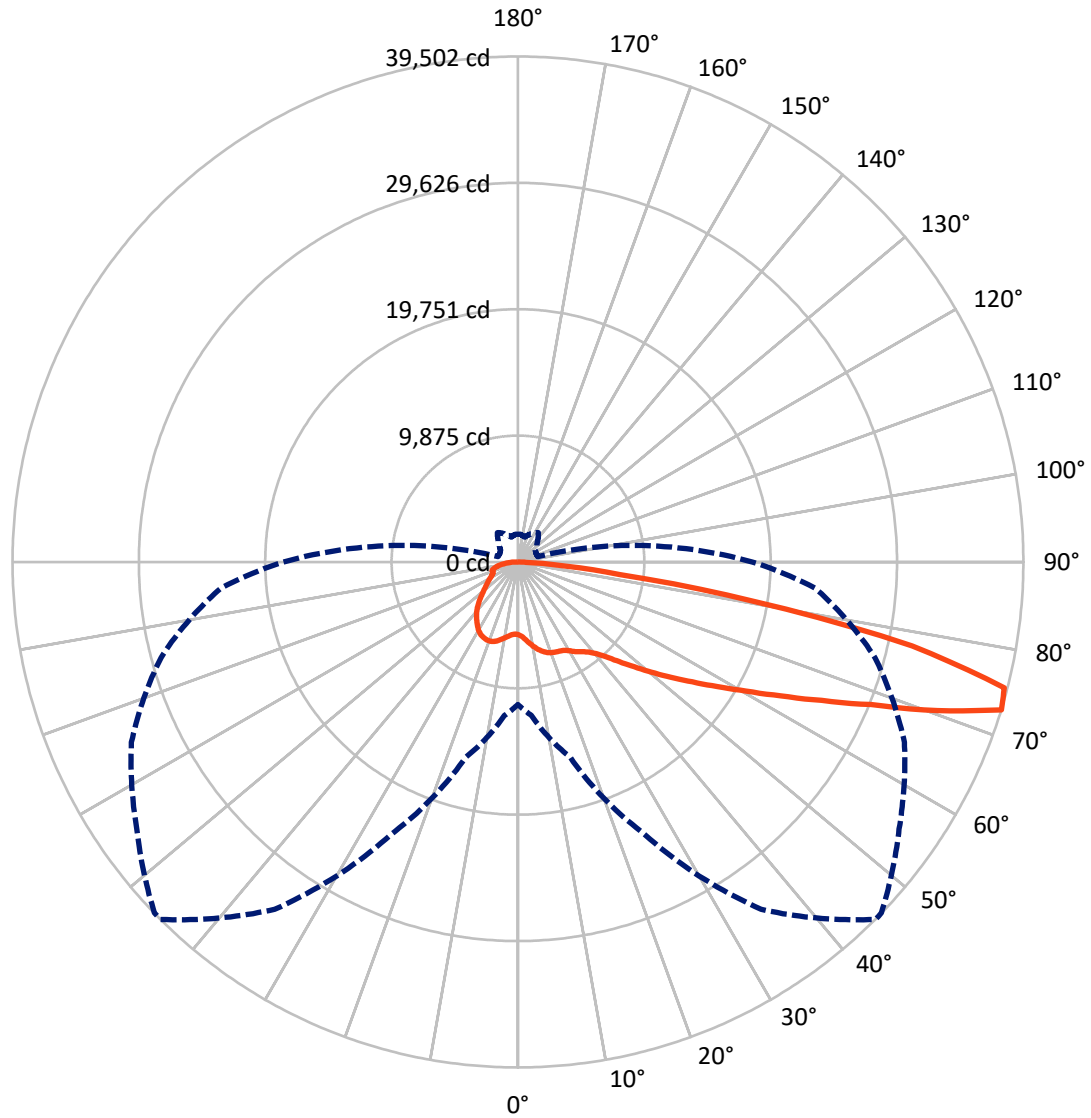
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P957597  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12729.3	0.0	12729.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	43578.7	0.0	43578.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	56308.0	0.0	56308.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	578.1	1.0
10°-20°	1927.6	3.4
20°-30°	3353.2	6.0
30°-40°	4807.0	8.5
40°-50°	6768.6	12.0
50°-60°	10367.5	18.4
60°-70°	15018.8	26.7
70°-80°	11993.4	21.3
80°-90°	1493.7	2.7
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°	56308.0	100.0
0°-180°	56308.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P957597

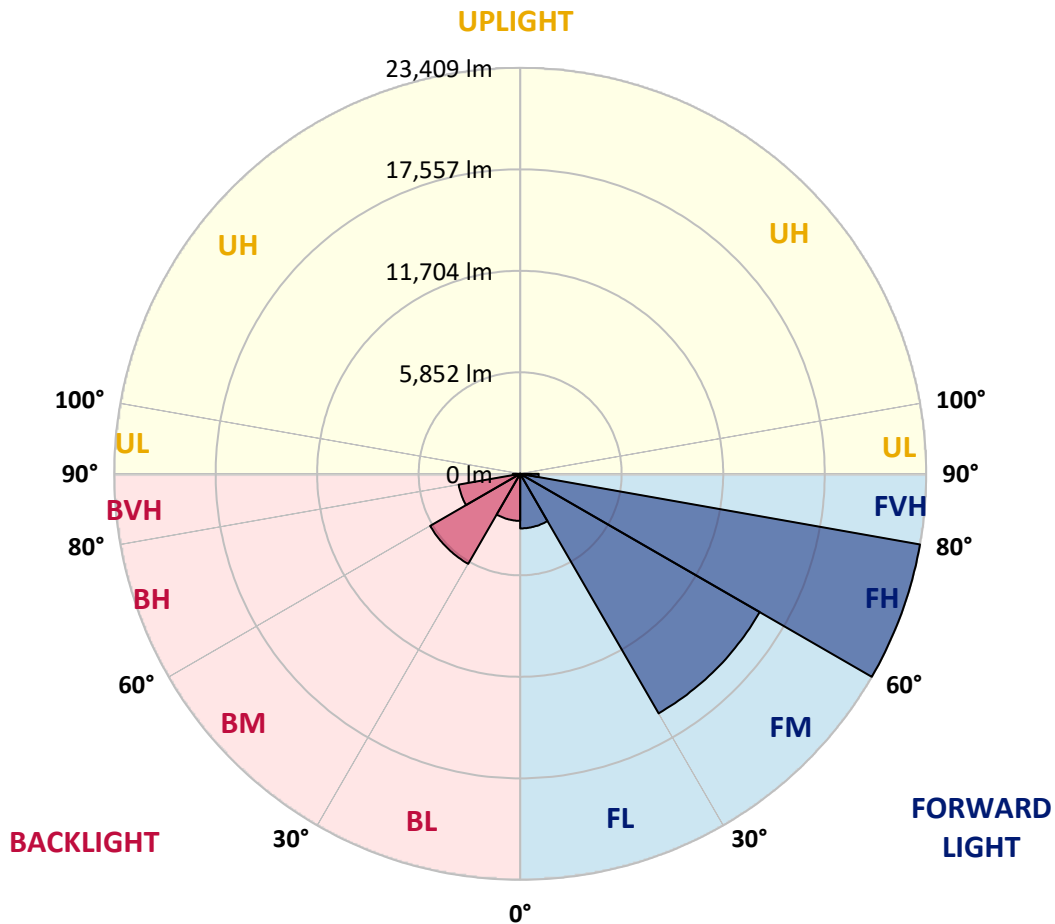
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3148.8	5.6			
FM (30°-60°)	15949.4	28.3			
FH (60°-80°)	23408.9	41.6			G5
FVH (80°-90°)	1071.6	1.9			G5
BL (0°-30°)	2710.2	4.8	B4/5000		
BM (30°-60°)	5993.7	10.6	B4/8500		
BH (60°-80°)	3603.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	422.1	0.7			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 Short



REPORT NUMBER: P957597

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4
2.5°	5902.9	5941.4	5905.8	5873.2	5858.4	5819.8	5816.8	5793.1	5778.3	5736.7
5°	6315.2	6365.6	6306.3	6241.0	6181.7	6086.8	6074.9	6006.7	5929.5	5840.6
7.5°	6780.9	6825.4	6757.1	6659.2	6555.4	6398.2	6395.2	6270.7	6149.0	5997.8
10°	7187.2	7246.6	7154.6	7021.1	6890.6	6712.6	6691.9	6549.5	6395.2	6199.5
12.5°	7546.2	7587.7	7498.7	7335.6	7184.3	7006.3	6979.6	6822.4	6650.3	6427.9
15°	7830.9	7884.3	7765.7	7590.7	7430.5	7255.5	7231.7	7089.4	6917.3	6683.0
17.5°	8017.8	8062.3	7940.7	7744.9	7590.7	7445.3	7427.5	7308.9	7157.6	6920.3
20°	8089.0	8136.4	8008.9	7810.2	7667.8	7555.1	7546.2	7460.1	7356.3	7139.8
22.5°	8160.2	8204.7	8038.6	7830.9	7706.3	7635.1	7632.2	7575.8	7534.3	7356.3
25°	8447.9	8459.8	8237.3	7937.7	7759.7	7697.4	7694.5	7691.5	7709.3	7569.9
27.5°	8697.1	8694.1	8504.3	8222.5	7946.6	7816.1	7813.1	7842.8	7899.1	7783.5
30°	9061.9	9029.3	8803.8	8510.2	8258.1	8056.4	8038.6	8011.9	8056.4	7964.4
32.5°	9836.1	9732.3	9367.4	8845.4	8516.1	8361.9	8338.1	8172.0	8189.8	8133.5
35°	10945.5	10809.0	10322.6	9480.2	8836.5	8617.0	8605.1	8394.5	8358.9	8308.5
37.5°	12265.5	12096.4	11529.8	10399.7	9388.2	8913.6	8895.8	8706.0	8560.6	8507.2
40°	13591.4	13377.8	12909.1	11520.9	10201.0	9409.0	9352.6	9064.9	8898.8	8809.8
42.5°	14878.7	14700.8	14300.3	12778.6	11203.6	10132.7	10008.1	9515.8	9391.2	9308.1
45°	16017.8	15857.6	15563.9	14122.3	12378.2	11117.5	10995.9	10192.1	10153.5	10153.5
47.5°	16943.3	16907.7	16596.2	15492.8	13763.4	12238.8	12028.2	11132.4	11236.2	11396.4
50°	17969.6	17871.7	17539.5	16842.4	15391.9	13523.2	13351.1	12286.2	12674.8	13113.8
52.5°	18912.9	18966.2	18595.5	18248.4	17231.0	14955.9	14653.3	13647.7	14487.2	15213.9
55°	19882.8	19885.8	19782.0	19734.5	19159.1	16539.8	16207.6	15285.1	16619.9	17521.7
57.5°	20793.5	20799.4	20953.6	21371.9	21395.6	18367.1	17990.3	17296.2	18990.0	19909.5
60°	21606.2	21647.7	22068.9	23047.8	23362.2	20461.2	20105.3	19672.2	21440.1	22365.6
62.5°	21879.1	22030.4	22967.7	24358.9	25305.1	23030.0	22680.0	22421.9	24014.8	24875.0
65°	21416.4	21763.4	23575.8	25441.6	27304.4	26082.3	25735.2	25453.4	26690.4	27500.2
67.5°	20280.3	20728.2	23540.2	26577.7	29730.8	29754.5	29431.2	28769.7	29558.7	29870.2
70°	17287.3	17957.7	21466.8	27001.8	32516.1	34776.4	34464.9	32762.3	32421.2	30914.3
72.5°	11138.3	12040.0	15807.2	23510.5	33136.1	39501.6	39483.8	36366.3	33325.9	28885.4
75°	4063.8	4615.5	7344.5	14757.1	27814.6	39261.4	39377.1	35749.3	30421.9	22312.2
77.5°	1480.2	1619.6	2396.7	5671.5	17106.4	31501.6	31741.9	28579.9	21653.7	11197.6
80°	777.2	854.3	1228.0	2201.0	7329.6	18708.2	19084.9	16984.8	10177.2	3372.6
82.5°	430.1	465.7	688.2	1195.4	3301.4	8000.0	8225.4	6709.7	3580.3	1429.7
85°	231.4	246.2	323.3	652.6	1613.6	2773.4	2835.7	2005.2	1426.8	839.5
87.5°	68.2	83.1	106.8	207.6	631.8	622.9	637.7	397.5	563.6	424.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957597  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5680.4	0°	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4	5680.4
5724.9	2.5°	5707.1	5698.2	5665.5	5650.7	5632.9	5630.0	5644.8	5647.8	5650.7	5653.7
5790.1	5°	5760.5	5730.8	5701.1	5683.3	5689.3	5692.2	5721.9	5742.7	5757.5	5769.4
5911.7	7.5°	5864.3	5840.6	5790.1	5787.2	5796.1	5822.8	5861.3	5908.8	5935.5	5956.2
6069.0	10°	6018.5	5974.0	5914.7	5923.6	5941.4	5980.0	6060.1	6098.6	6143.1	6181.7
6261.8	12.5°	6175.7	6137.2	6069.0	6074.9	6104.6	6172.8	6249.9	6297.4	6327.0	6356.7
6469.4	15°	6380.4	6312.2	6238.0	6238.0	6291.4	6365.6	6401.2	6439.7	6457.5	6490.2
6691.9	17.5°	6591.0	6502.0	6404.1	6398.2	6463.5	6499.1	6519.8	6525.8	6531.7	6567.3
6908.4	20°	6801.6	6703.7	6564.3	6552.5	6567.3	6561.4	6558.4	6552.5	6561.4	6605.9
7130.9	22.5°	7009.3	6896.5	6703.7	6650.3	6608.8	6552.5	6549.5	6546.5	6552.5	6597.0
7371.1	25°	7252.5	7116.0	6858.0	6697.8	6558.4	6481.3	6490.2	6493.1	6499.1	6534.7
7620.3	27.5°	7516.5	7365.2	7000.4	6683.0	6430.8	6377.5	6362.6	6371.5	6392.3	6448.6
7869.5	30°	7780.5	7602.5	7130.9	6623.7	6270.7	6196.5	6149.0	6169.8	6235.1	6291.4
8086.0	32.5°	8020.8	7842.8	7234.7	6493.1	6066.0	5950.3	5888.0	5914.7	5980.0	6000.7
8326.3	35°	8302.6	8100.8	7279.2	6285.5	5843.5	5665.5	5582.5	5543.9	5576.6	5555.8
8608.1	37.5°	8617.0	8406.4	7273.3	6012.6	5582.5	5377.8	5262.1	5116.8	5048.6	4977.4
9023.4	40°	9082.7	8780.1	7202.1	5683.3	5259.2	5072.3	4864.7	4618.5	4464.2	4324.8
9693.7	42.5°	9717.5	9299.2	7071.6	5321.5	4894.3	4719.3	4437.5	4149.8	3906.6	3675.2
10711.2	45°	10663.7	9978.5	6908.4	4935.9	4499.8	4327.8	4022.2	3698.9	3423.1	3126.4
12155.7	47.5°	12028.2	10892.1	6754.2	4496.8	4084.5	3927.3	3651.5	3351.9	3025.6	2737.9
14244.0	50°	13902.8	12203.2	6611.8	4069.7	3675.2	3556.5	3337.0	3031.5	2702.3	2470.9
16691.1	52.5°	16287.7	13985.9	6552.5	3657.4	3292.5	3248.1	3073.0	2788.3	2476.8	2281.1
19544.7	55°	19025.6	16118.6	6552.5	3262.9	2957.4	2972.2	2850.6	2586.6	2316.6	2141.6
22487.2	57.5°	21819.8	18278.1	6433.8	2898.0	2672.6	2734.9	2657.8	2426.4	2183.2	2002.2
25581.0	60°	24394.5	20087.5	5953.3	2565.8	2420.5	2518.4	2467.9	2269.2	1972.6	1821.3
28167.6	62.5°	26373.0	21107.9	5027.8	2301.8	2212.8	2325.5	2298.8	2061.5	1934.0	1871.7
30291.4	65°	27363.7	20941.8	3844.3	2067.5	2037.8	2212.8	2156.5	2147.6	2046.7	1975.5
30982.5	67.5°	26755.6	19512.0	2788.3	1895.4	1937.0	2109.0	2325.5	2361.1	2174.3	2034.9
29036.7	70°	24089.0	16925.5	2076.4	1732.3	1809.4	2112.0	2651.8	2470.9	2132.7	1969.6
23288.1	72.5°	18325.5	12621.4	1610.7	1560.3	1643.3	2126.8	2797.2	2420.5	2014.1	2177.2
14508.0	75°	10479.8	6929.2	1293.3	1349.6	1435.7	1987.4	2723.0	2290.0	1922.1	1999.3
5748.6	77.5°	3995.5	2663.7	1067.9	1142.0	1153.9	1735.3	2604.4	2281.1	1830.2	1785.7
1723.4	80°	1385.2	1041.2	883.9	907.7	892.8	1542.5	2497.6	1984.4	1498.0	1340.7
711.9	82.5°	566.6	519.1	700.0	670.4	634.8	1198.4	2017.1	1622.5	1225.1	1082.7
344.1	85°	246.2	329.3	462.7	406.4	367.8	830.6	1616.6	1373.4	1035.2	892.8
112.7	87.5°	50.4	124.6	195.8	183.9	189.8	554.7	1147.9	975.9	732.7	548.8
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>
5680.4
5665.5
5775.3
5962.2
6172.8
6368.6
6502.0
6579.2
6623.7
6626.6
6582.1
6505.0
6353.7
6074.9
5621.1
5021.9
4333.7
3654.4
3090.8
2705.2
2456.1
2266.2
2123.8
1972.6
1797.6
1850.9
1951.8
2011.1
1942.9
2159.4
1999.3
1628.5
1296.3
1070.8
889.9
430.1
0.0

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