

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: P957478

Luminaire Tested: **GALN-SB9D-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957478
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-SB9D-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 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: 80110 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

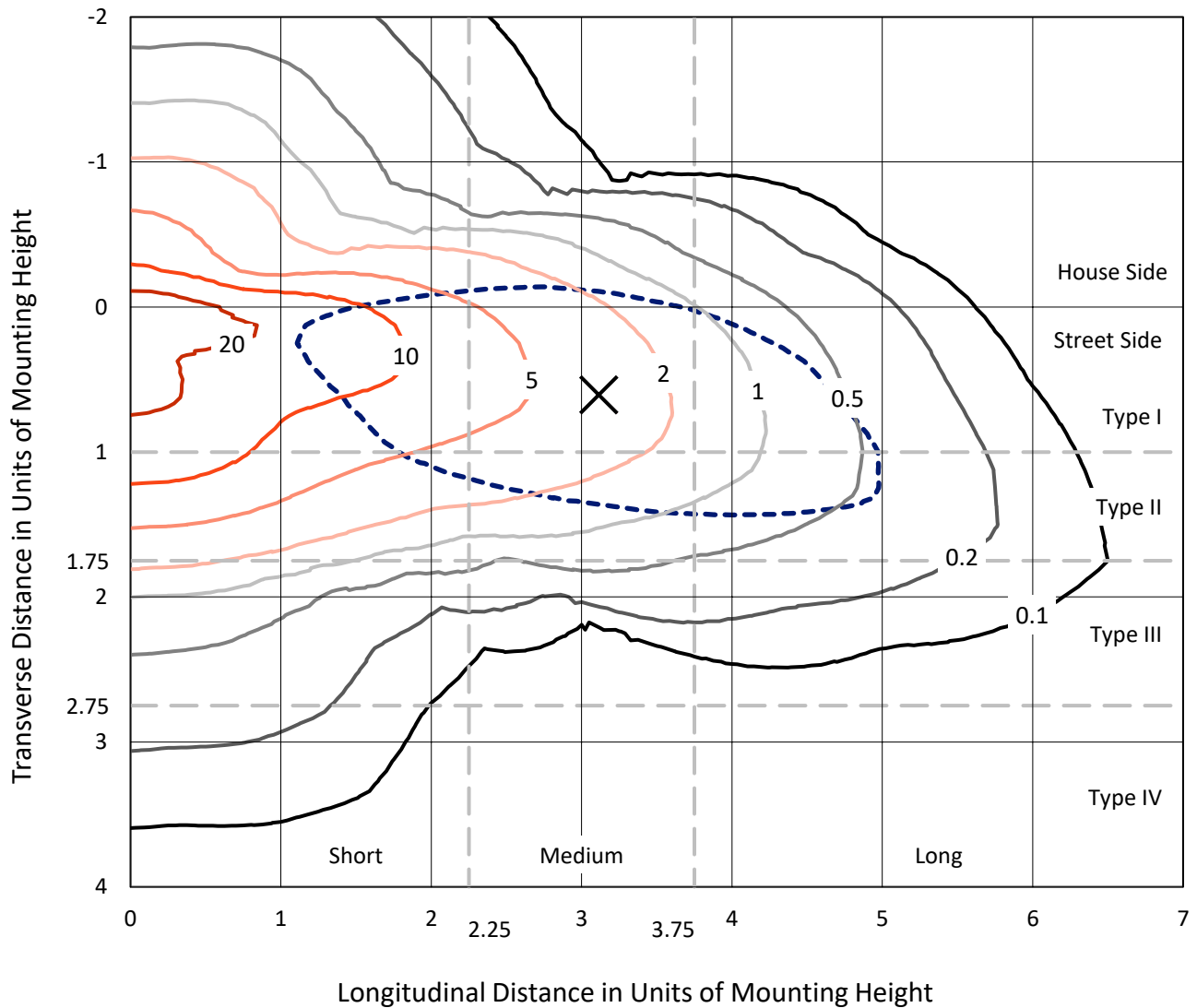
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

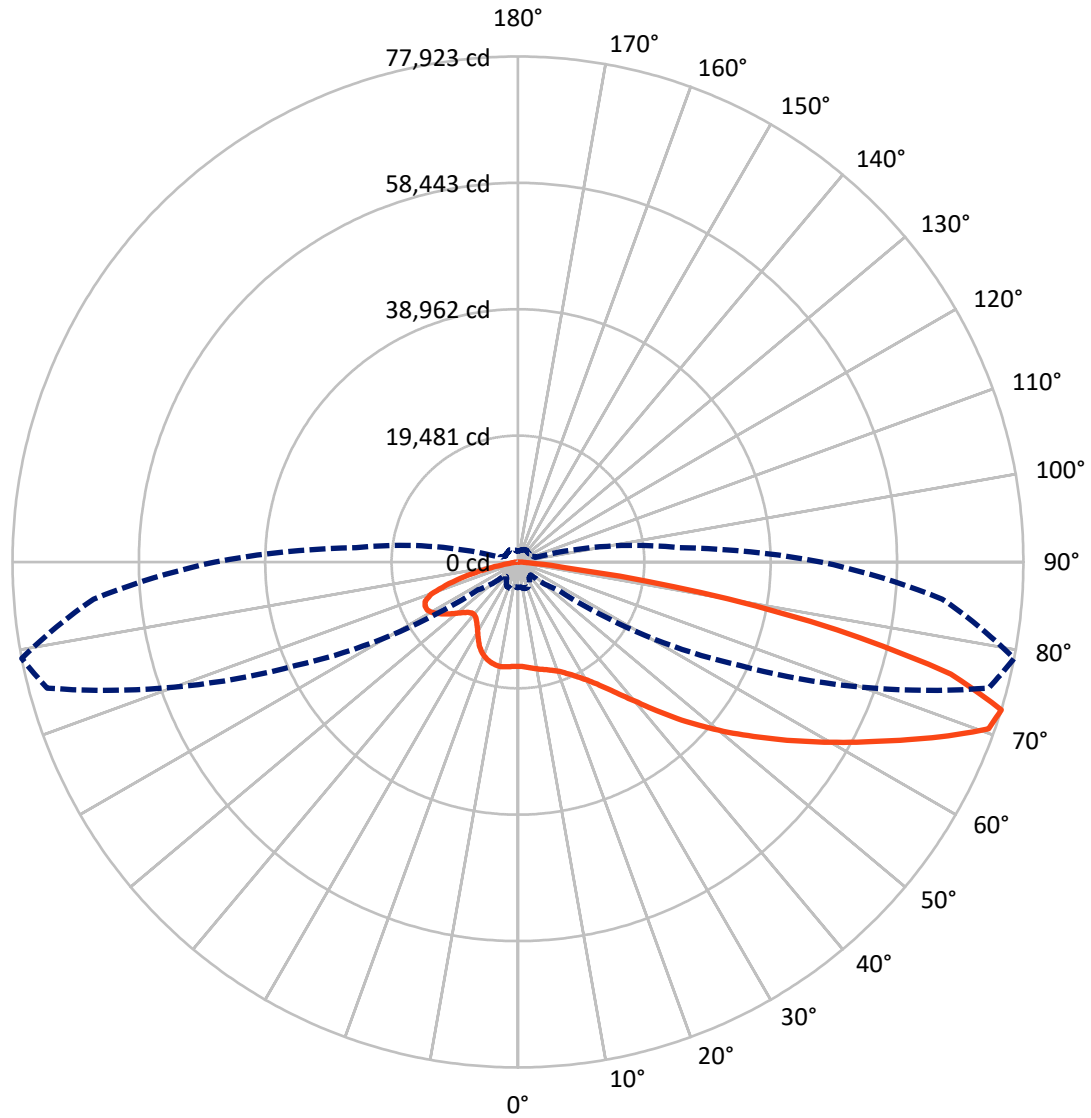
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 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
House Side	Lumens	17628.6	0.0	17628.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	62481.4	0.0	62481.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	80110.0	0.0	80110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1459.7	1.8
10°-20°	3816.4	4.8
20°-30°	6158.2	7.7
30°-40°	9242.5	11.5
40°-50°	13111.1	16.4
50°-60°	16557.5	20.7
60°-70°	16816.4	21.0
70°-80°	11461.1	14.3
80°-90°	1487.0	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°	80110.0	100.0
0°-180°	80110.0	100.0

Coefficient of Utilization



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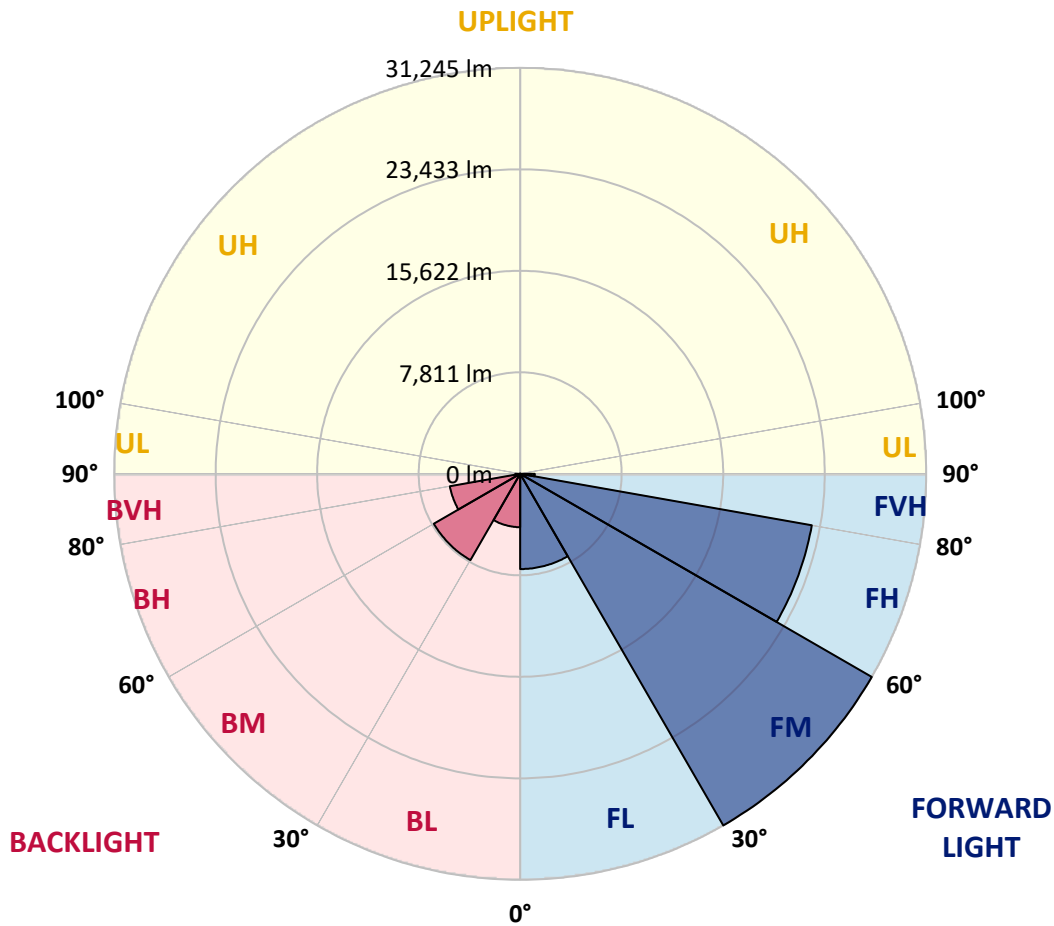
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7328.1	9.1			
FM (30°-60°)	31244.5	39.0			
FH (60°-80°)	22788.6	28.4			G5
FVH (80°-90°)	1120.2	1.4			G5
BL (0°-30°)	4106.2	5.1	B4/5000		
BM (30°-60°)	7666.6	9.6	B4/8500		
BH (60°-80°)	5489.0	6.9	B5		G5
BVH (80°-90°)	366.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3
2.5°	16089.8	16013.5	16060.1	16043.2	16064.4	16089.8	16098.3	16111.0	16153.4	16149.1
5°	16055.9	15979.6	16043.2	16022.0	16077.1	16136.4	16187.3	16233.9	16301.7	16331.3
7.5°	15983.9	15933.0	15996.6	16060.1	16161.8	16250.8	16322.9	16428.8	16526.3	16543.2
10°	15564.3	15526.2	15674.5	15839.8	16119.5	16361.0	16517.8	16640.7	16746.6	16763.6
12.5°	15127.9	15081.3	15246.5	15471.1	15924.5	16361.0	16691.5	16852.5	16945.8	17000.9
15°	15055.8	15017.7	15110.9	15305.9	15683.0	16246.6	16810.2	17106.8	17187.3	17250.9
17.5°	15403.3	15331.3	15369.4	15437.2	15657.6	16140.6	16903.4	17394.9	17517.8	17585.6
20°	16208.4	16106.7	16047.4	15911.8	15873.7	16157.6	16894.9	17742.4	17903.4	17988.2
22.5°	17280.5	17212.7	17085.6	16742.4	16369.5	16365.2	17055.9	18187.4	18488.2	18568.7
25°	18577.2	18475.5	18314.5	17848.4	17132.2	16776.3	17327.1	18755.2	19259.4	19280.6
27.5°	20068.8	19916.3	19695.9	19081.5	18115.3	17420.4	17742.4	19407.8	20145.1	20136.6
30°	21640.9	21488.4	21255.3	20509.5	19293.3	18289.1	18318.7	20111.2	21196.0	21149.4
32.5°	22789.3	22674.9	22628.3	22052.0	20649.3	19314.5	18979.8	20890.9	22492.7	22450.3
35°	23670.7	23522.4	23577.5	23285.1	22128.2	20462.9	19789.1	21818.9	24069.0	24064.8
37.5°	24543.6	24412.3	24458.9	24263.9	23496.9	21920.6	20776.5	22954.5	26022.5	26115.7
40°	25340.3	25200.4	25386.9	25204.7	24560.6	23471.5	21899.4	24238.5	28285.3	28463.3
42.5°	25819.1	25708.9	26018.3	26022.5	25484.3	24780.9	23132.5	25653.8	30904.1	31302.4
45°	25984.4	25946.2	26412.4	26509.8	26302.2	25539.4	24242.8	27196.3	33726.3	34438.2
47.5°	25806.4	25734.4	26378.5	26738.6	26903.9	25895.4	25162.3	28865.9	36607.8	37650.2
50°	24908.0	24768.2	25725.9	26484.4	27073.4	26128.4	26090.3	30793.9	39883.4	41023.3
52.5°	23293.5	23187.6	24276.7	25594.5	26700.5	26242.9	27132.7	32900.0	42993.7	44468.3
55°	21229.9	21090.0	22289.3	24009.7	25772.5	26204.7	28175.2	35256.0	46663.4	48159.2
57.5°	17958.5	17678.9	19195.9	21229.9	24259.7	26158.1	29260.0	37599.4	50392.4	52184.8
60°	13187.1	12771.8	14632.1	17043.2	21301.9	25704.7	30603.2	40226.6	54867.2	56481.7
62.5°	7678.4	7436.8	8653.0	10903.1	16055.9	23035.1	31357.5	43281.8	59265.7	60960.7
65°	5962.2	5894.4	6000.3	6174.0	8936.9	17246.6	29031.1	46260.8	64859.2	66045.7
67.5°	5453.7	5402.8	5449.4	5123.1	4534.1	9606.4	22967.3	47015.1	70851.0	71571.4
70°	4847.7	4788.4	4940.9	4661.3	3568.0	4368.9	14839.7	44277.7	75618.2	76970.0
72.5°	3949.4	3881.6	4237.5	4110.4	3004.4	2805.2	7453.8	37773.1	75118.2	77923.4
75°	3034.1	2995.9	3419.7	3525.6	2449.3	2207.7	3576.5	28077.7	66105.0	68931.4
77.5°	2356.1	2326.4	2542.5	2928.1	1974.7	1712.0	2199.3	17810.2	49816.1	50311.9
80°	1767.0	1682.3	1881.5	2267.1	1538.2	1250.1	1491.6	10386.1	31488.9	28543.8
82.5°	1106.0	1063.6	1228.9	1512.8	1084.8	860.2	970.4	5737.6	12619.3	7432.6
85°	631.4	614.4	669.5	864.5	589.0	495.8	555.1	2534.0	2305.2	1584.8
87.5°	254.3	245.8	305.1	385.6	216.1	182.2	194.9	610.2	508.5	470.4
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°
16081.3	0°	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3	16081.3
16144.9	2.5°	16127.9	16127.9	16068.6	15975.4	15869.4	15801.6	15691.5	15661.8	15547.4	15513.5
16289.0	5°	16322.9	16289.0	16106.7	15844.0	15483.8	15153.3	14788.9	14560.1	14238.0	14123.6
16572.9	7.5°	16568.6	16475.4	16161.8	15585.5	14831.3	14089.7	13318.5	12733.7	12174.3	11975.2
16805.9	10°	16793.2	16661.9	16127.9	15119.4	13814.3	12530.3	11301.4	10441.2	9788.6	9521.7
17064.4	12.5°	17017.8	16776.3	15903.3	14343.9	12369.3	10627.7	9318.3	8648.7	8246.2	7924.1
17276.3	15°	17229.7	16890.7	15555.9	13305.8	10784.4	9017.4	8051.3	7517.3	7195.3	6983.4
17585.6	17.5°	17475.5	16988.1	15034.7	11987.9	9275.9	7902.9	7114.8	6792.7	6729.2	6703.7
18009.4	20°	17818.7	17077.1	14348.2	10513.2	8165.7	7013.1	6606.3	6576.6	6572.4	6559.7
18517.9	22.5°	18187.4	17183.1	13441.4	9174.2	7220.7	6458.0	6385.9	6326.6	6288.5	6284.2
19132.3	25°	18623.8	17217.0	12305.7	8076.7	6415.6	6195.2	6110.5	6021.5	5996.1	5996.1
19831.5	27.5°	19047.6	17102.6	10983.6	7123.2	5962.2	5953.7	5843.5	5813.9	5809.6	5822.3
20628.2	30°	19471.3	16886.4	9670.0	6241.8	5699.4	5699.4	5661.3	5682.5	5699.4	5741.8
21721.4	32.5°	20043.4	16657.6	8572.5	5589.3	5470.6	5428.2	5466.4	5508.8	5525.7	5580.8
23157.9	35°	20882.4	16496.6	7699.5	5233.3	5233.3	5178.2	5199.4	5190.9	5152.8	5127.4
24895.3	37.5°	21992.6	16488.1	6979.2	5068.1	5034.2	5025.7	5029.9	4974.8	4826.5	4648.5
26997.1	40°	23327.4	16716.9	6424.1	4953.6	4928.2	4979.1	4953.6	4805.3	4398.5	4089.2
29582.0	42.5°	25119.9	17369.5	6068.1	4813.8	4890.1	4953.6	4851.9	4339.2	4063.8	3856.1
32527.1	45°	27230.2	18428.9	5885.9	4665.5	4818.0	4894.3	4402.8	4178.2	3957.8	3707.8
35739.1	47.5°	29620.1	19763.7	5843.5	4525.7	4657.0	4703.6	4212.1	4110.4	3860.4	3589.2
38968.1	50°	32222.0	21344.3	5957.9	4360.4	4424.0	4262.9	4148.5	4055.3	3796.8	3529.8
42277.6	52.5°	34912.8	23085.9	6186.8	4135.8	4190.9	4012.9	4123.1	4042.6	3758.7	3398.5
45697.2	55°	37557.0	24840.2	6407.1	3873.1	3953.6	3788.3	4051.1	3991.7	3584.9	3178.1
49345.7	57.5°	40243.6	26586.1	6623.2	3640.0	3724.8	3572.2	3936.6	3856.1	3390.0	2974.7
53329.0	60°	43036.1	28281.1	6724.9	3415.4	3474.8	3373.1	3762.9	3623.1	3169.7	2767.1
57244.4	62.5°	45650.6	29692.2	6559.7	3190.8	3229.0	3186.6	3534.1	3347.6	2949.3	2534.0
61325.1	65°	48273.6	30531.2	6051.2	2970.5	2979.0	2957.8	3212.0	3051.0	2690.8	2330.6
64897.3	67.5°	50650.9	31001.6	5241.8	2733.2	2712.0	2703.5	2911.2	2729.0	2440.8	2127.2
67613.6	70°	51155.1	29806.6	4004.4	2453.5	2453.5	2432.3	2580.6	2394.2	2165.4	1911.1
65668.6	72.5°	46722.7	25073.3	2843.4	2135.7	2169.6	2127.2	2250.1	2093.3	1885.7	1716.2
56596.1	75°	37675.6	18386.5	2067.9	1809.4	1868.7	1796.7	1911.1	1800.9	1623.0	1618.7
39002.0	77.5°	25886.9	11369.2	1500.1	1491.6	1534.0	1440.8	1572.1	1512.8	1351.8	1279.7
16975.4	80°	11047.2	4534.1	1093.3	1152.6	1152.6	1067.9	1220.4	1237.4	1097.5	1063.6
3275.6	82.5°	2199.3	1288.2	767.0	792.4	745.8	720.4	864.5	957.7	1322.1	1470.4
987.3	85°	661.1	474.6	461.9	432.2	381.4	385.6	508.5	961.9	1186.5	678.0
326.3	87.5°	182.2	118.7	122.9	97.5	80.5	105.9	173.7	728.9	398.3	169.5
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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<u>180°</u>
16081.3
15568.6
14208.3
12000.6
9581.0
8030.1
7021.5
6720.7
6602.0
6330.8
6021.5
5856.2
5771.5
5627.4
5186.7
4652.8
4080.7
3847.7
3690.9
3568.0
3500.2
3373.1
3156.9
2966.3
2754.4
2529.8
2305.2
2101.8
1902.6
1665.3
1457.7
1199.2
1063.6
1474.7
584.8
144.1
0.0

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