

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: P943847

Luminaire Tested: **GALN-SB8C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60599 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

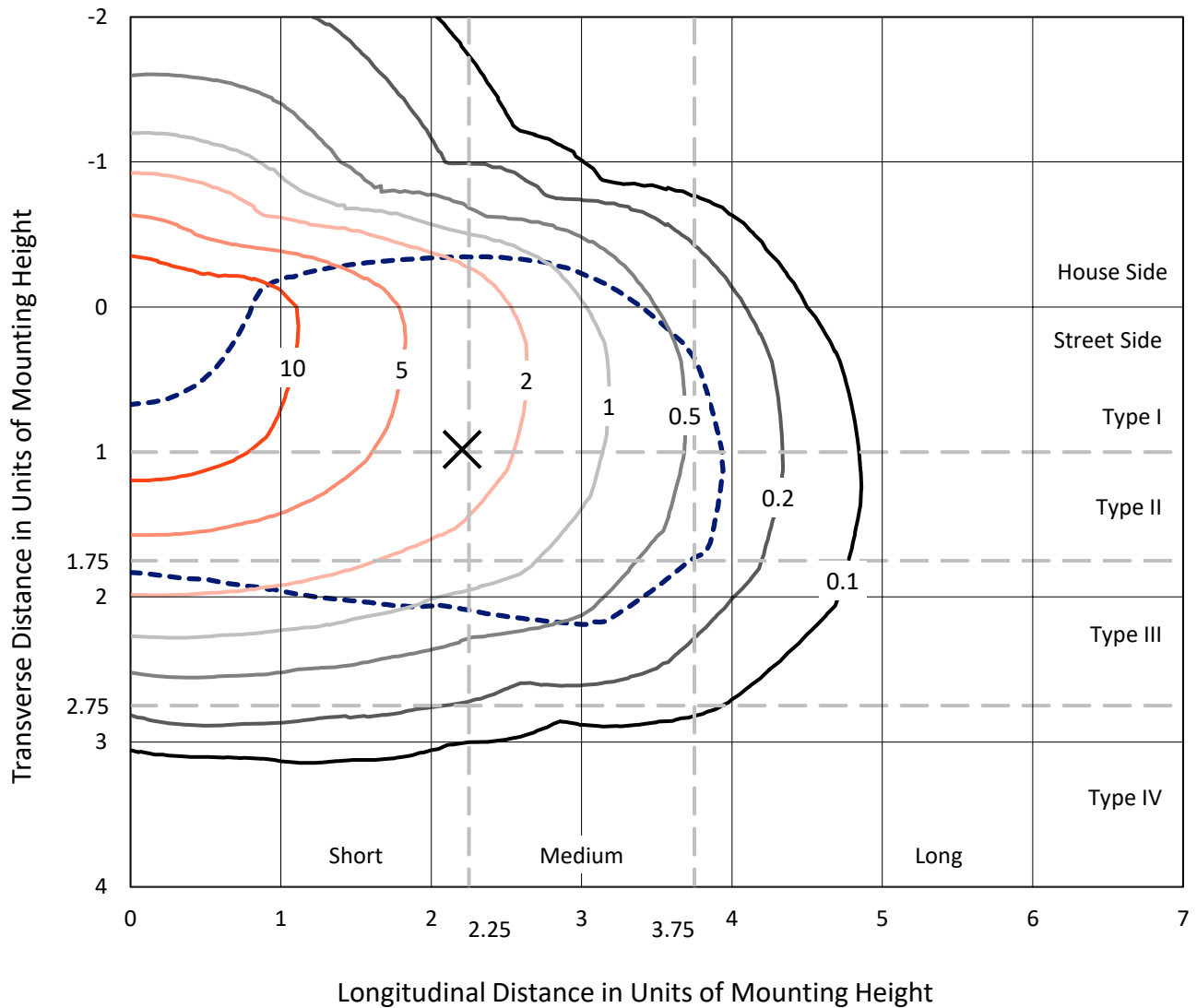
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

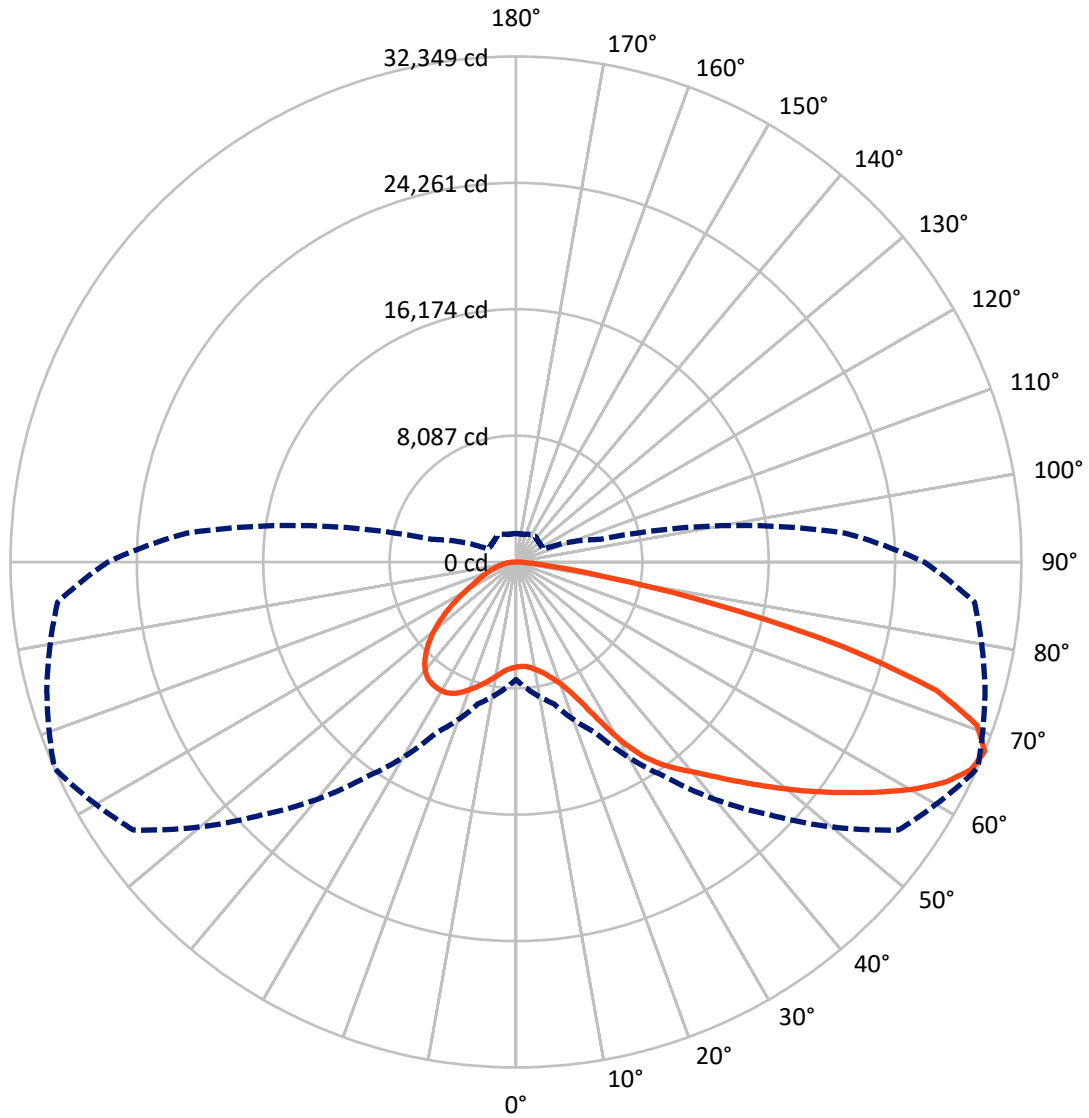
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15067.8	0.0	15067.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	45531.2	0.0	45531.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	60599.0	0.0	60599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	1.1
10°-20°	2201.6	3.6
20°-30°	4243.5	7.0
30°-40°	7440.5	12.3
40°-50°	11061.6	18.3
50°-60°	14021.6	23.1
60°-70°	13719.8	22.6
70°-80°	6544.5	10.8
80°-90°	699.4	1.2
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°	60599.0	100.0
0°-180°	60599.0	100.0

Coefficient of Utilization



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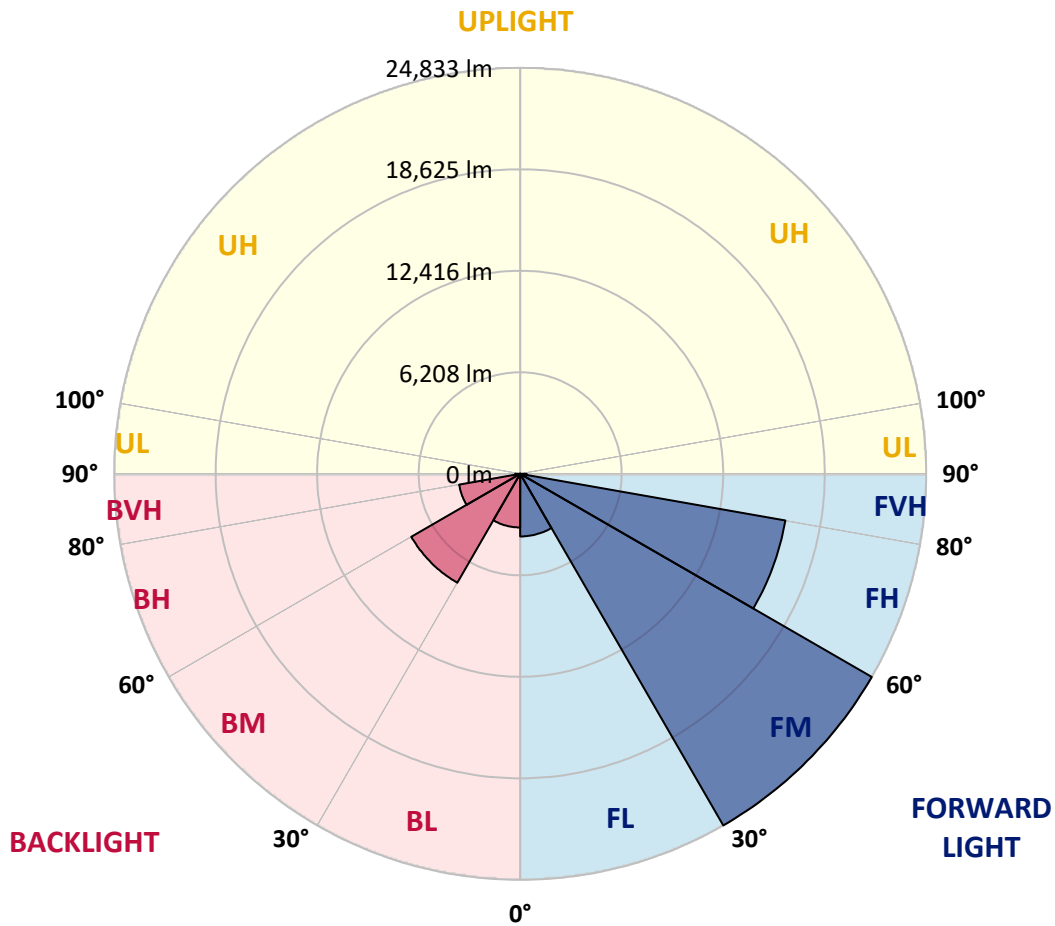
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3829.3	6.3			
FM (30°-60°)	24833.0	41.0			
FH (60°-80°)	16472.5	27.2			G5
FVH (80°-90°)	396.5	0.7			G3/500
BL (0°-30°)	3282.3	5.4	B4/5000		
BM (30°-60°)	7690.8	12.7	B4/8500		
BH (60°-80°)	3791.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	302.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2
2.5°	6651.2	6689.4	6679.8	6663.9	6660.7	6667.1	6676.7	6686.2	6683.0	6698.9
5°	6632.1	6670.3	6667.1	6667.1	6679.8	6705.3	6721.2	6737.1	6721.2	6740.3
7.5°	6644.8	6673.5	6686.2	6698.9	6730.8	6778.5	6816.7	6851.8	6832.7	6855.0
10°	6807.2	6829.5	6842.2	6842.2	6864.5	6918.6	6956.8	7020.5	7004.6	7039.6
12.5°	7103.3	7125.6	7125.6	7112.9	7128.8	7163.8	7176.5	7246.6	7217.9	7275.2
15°	7466.3	7510.8	7475.8	7453.5	7459.9	7494.9	7491.7	7545.9	7517.2	7565.0
17.5°	7867.4	7924.7	7867.4	7864.3	7851.5	7889.7	7892.9	7940.7	7889.7	7924.7
20°	8341.8	8421.4	8373.7	8389.6	8360.9	8376.9	8392.8	8462.8	8383.2	8408.7
22.5°	9010.5	9106.0	9055.0	9115.5	9096.4	9083.7	9080.5	9204.7	9080.5	9090.1
25°	9984.7	10099.4	10010.2	10093.0	10093.0	10134.4	10182.1	10341.3	10134.4	10073.9
27.5°	11423.9	11538.5	11363.4	11414.3	11398.4	11500.3	11449.3	11844.1	11621.3	11522.6
30°	13155.9	13359.7	13028.6	13015.8	12999.9	13162.3	13235.5	13496.6	13270.5	13171.8
32.5°	15028.0	15241.4	14846.6	14731.9	14671.4	14770.1	14709.7	14919.8	14763.8	14611.0
35°	17008.4	17218.6	16842.9	16620.0	16378.0	16171.1	15954.6	16008.7	15862.2	15629.8
37.5°	18880.6	19265.8	18867.8	18629.0	18183.3	17778.9	17174.0	16922.5	16785.6	16572.2
40°	20787.7	21007.4	20705.0	20501.2	20017.2	19383.6	18415.7	17884.0	17699.3	17492.4
42.5°	22191.8	22402.0	22239.6	22099.5	21720.6	20985.1	19733.9	19068.4	18801.0	18568.6
45°	23306.2	23462.2	23360.3	23411.3	23248.9	22535.7	21099.8	20338.8	20061.8	19778.4
47.5°	23755.1	23920.7	24083.1	24385.6	24662.6	24137.2	22567.5	21714.3	21421.3	21131.6
50°	23704.2	23872.9	24344.2	24987.3	25847.0	25671.9	24114.9	23178.9	22908.2	22577.1
52.5°	23296.7	23487.7	24092.6	25162.4	26531.5	26821.2	25691.0	24691.2	24436.5	24041.7
55°	22226.9	22341.5	23248.9	24764.4	26693.9	27623.6	27235.1	26302.3	26047.6	25496.7
57.5°	20243.3	20408.9	21730.2	23691.5	26286.3	28168.0	28591.5	27996.1	27750.9	26958.1
60°	17654.8	17919.0	19431.4	21889.4	25248.4	28164.9	29823.7	29661.3	29457.5	28397.3
62.5°	14725.6	15031.2	16486.3	19342.2	23433.6	27365.7	30594.2	31055.8	30950.8	29725.0
65°	11309.2	11519.4	12968.1	16046.9	20609.4	25649.6	30683.3	32007.8	32026.9	30734.3
67.5°	7529.9	8134.9	9392.5	12041.5	16827.0	22844.5	29900.1	32163.8	32348.5	31081.3
70°	3674.2	4470.2	5702.4	7826.0	12041.5	18543.1	27852.8	30883.9	31294.6	30068.8
72.5°	1525.1	1783.0	2454.8	3862.1	6912.3	12512.8	23739.2	27413.4	28174.4	26642.9
75°	1028.4	1114.4	1404.1	1980.4	3148.9	6170.4	17119.9	20440.7	21666.5	20122.3
77.5°	792.8	846.9	1022.0	1385.0	1872.1	2333.8	9163.3	12318.5	12952.1	11990.6
80°	624.0	665.4	764.1	1009.3	1327.7	1248.1	3123.4	5581.4	5947.5	4989.2
82.5°	541.3	557.2	547.6	684.5	881.9	729.1	1025.2	2060.0	2273.3	1649.3
85°	391.6	436.2	455.3	423.5	468.0	369.3	420.3	729.1	802.3	716.4
87.5°	159.2	235.6	289.7	273.8	171.9	105.1	130.5	213.3	245.2	267.4
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°
6721.2	0°	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2	6721.2
6724.4	2.5°	6727.6	6749.9	6765.8	6784.9	6797.6	6816.7	6855.0	6877.2	6880.4	6896.3
6775.4	5°	6788.1	6819.9	6855.0	6905.9	6963.2	7011.0	7084.2	7135.1	7154.2	7170.2
6899.5	7.5°	6918.6	6963.2	7026.9	7116.0	7198.8	7262.5	7351.6	7412.1	7472.6	7494.9
7096.9	10°	7112.9	7176.5	7268.9	7389.9	7479.0	7561.8	7654.1	7705.1	7765.6	7791.0
7332.5	12.5°	7354.8	7421.7	7542.7	7711.4	7794.2	7851.5	7883.4	7870.6	7883.4	7905.6
7615.9	15°	7631.8	7705.1	7842.0	8023.4	8080.8	8029.8	7959.8	7896.1	7886.5	7892.9
7959.8	17.5°	7959.8	8013.9	8173.1	8325.9	8284.5	8074.4	7921.6	7819.7	7768.7	7752.8
8399.1	20°	8418.3	8418.3	8548.8	8644.3	8367.3	8010.7	7771.9	7606.4	7501.3	7456.7
8997.7	22.5°	8975.4	8924.5	9007.3	8940.4	8351.4	7832.4	7501.3	7214.7	7055.5	6991.9
9835.1	25°	9682.3	9621.8	9599.5	9185.6	8236.8	7549.0	7011.0	6663.9	6523.8	6488.8
11041.8	27.5°	10748.9	10596.0	10306.3	9319.3	8026.6	7103.3	6437.9	6116.3	6036.7	6039.9
12592.4	30°	12168.9	11863.2	11153.2	9341.6	7682.8	6472.9	5852.0	5622.8	5584.6	5600.5
13894.6	32.5°	13483.9	13194.1	12019.3	9239.7	7154.2	5855.2	5326.7	5173.9	5116.5	5135.6
14888.0	35°	14515.4	14435.8	12821.6	9096.4	6504.7	5275.7	4855.5	4724.9	4613.5	4588.0
15824.0	37.5°	15489.7	15457.9	13423.4	8895.8	5861.6	4865.0	4476.6	4304.6	4142.3	4053.1
16858.8	40°	16559.5	16527.7	13818.2	8587.0	5291.7	4508.4	4135.9	3909.8	3709.3	3546.9
18030.5	42.5°	17763.0	17575.2	14006.0	8144.4	4807.7	4205.9	3858.9	3553.2	3289.0	3139.3
19355.0	45°	19078.0	18654.5	14002.8	7580.9	4400.2	3928.9	3562.8	3129.8	2884.6	2744.5
20714.5	47.5°	20472.5	19686.1	13830.9	6956.8	4005.4	3623.3	3104.3	2773.2	2610.8	2524.8
22191.8	50°	21911.7	20650.8	13538.0	6240.5	3601.0	3276.2	2817.8	2591.7	2467.5	2387.9
23656.4	52.5°	23264.8	21526.4	13184.6	5428.6	3190.3	2938.7	2690.4	2515.3	2384.7	2295.6
25076.5	55°	24522.5	22281.0	12684.7	4597.6	2856.0	2712.7	2629.9	2483.4	2333.8	2228.7
26518.8	57.5°	25640.0	22771.3	11821.9	3817.5	2617.2	2556.7	2566.2	2429.3	2257.4	2168.2
27938.8	60°	26569.7	23131.1	10545.1	3094.8	2423.0	2403.9	2467.5	2327.4	2126.9	2025.0
29139.1	62.5°	27126.9	23124.7	8978.6	2534.4	2257.4	2263.8	2337.0	2200.1	1996.3	1900.8
29766.4	65°	27079.1	22558.0	7259.3	2168.2	2098.2	2104.6	2200.1	2060.0	1888.1	1830.7
29451.1	67.5°	26120.8	21176.2	5568.7	1929.4	1923.1	1951.7	2063.2	1964.5	1821.2	1814.8
27572.6	70°	23525.9	18307.5	4011.7	1738.4	1741.6	1783.0	1929.4	1904.0	1786.2	1798.9
23182.0	72.5°	18864.7	13958.3	2693.6	1537.8	1541.0	1607.9	1802.1	1856.2	1751.1	1919.9
16448.1	75°	12563.7	8704.8	1732.0	1324.5	1327.7	1413.7	1690.7	1763.9	1655.6	1913.5
8558.3	77.5°	6036.7	3913.0	1254.5	1114.4	1114.4	1194.0	1461.4	1579.2	1410.5	1486.9
2750.9	80°	2085.5	1471.0	987.0	897.9	878.8	932.9	1232.2	1369.1	1216.3	1120.7
897.9	82.5°	821.4	764.1	792.8	697.3	633.6	668.6	958.4	1130.3	894.7	808.7
506.2	85°	471.2	496.7	560.4	461.7	366.1	410.7	703.6	811.9	675.0	595.4
165.6	87.5°	127.4	175.1	257.9	238.8	165.6	175.1	334.3	448.9	388.4	299.3
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°
6721.2
6893.2
7167.0
7498.1
7803.8
7912.0
7915.2
7775.1
7447.2
6982.3
6495.2
6049.4
5654.6
5161.1
4607.1
4056.3
3562.8
3148.9
2738.2
2505.7
2359.3
2257.4
2187.3
2110.9
1980.4
1872.1
1827.6
1824.4
1795.7
1945.4
1929.4
1362.7
1050.7
805.5
608.1
308.8
0.0

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