

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: P954632

Luminaire Tested: **GALN-SB7D-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63772 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

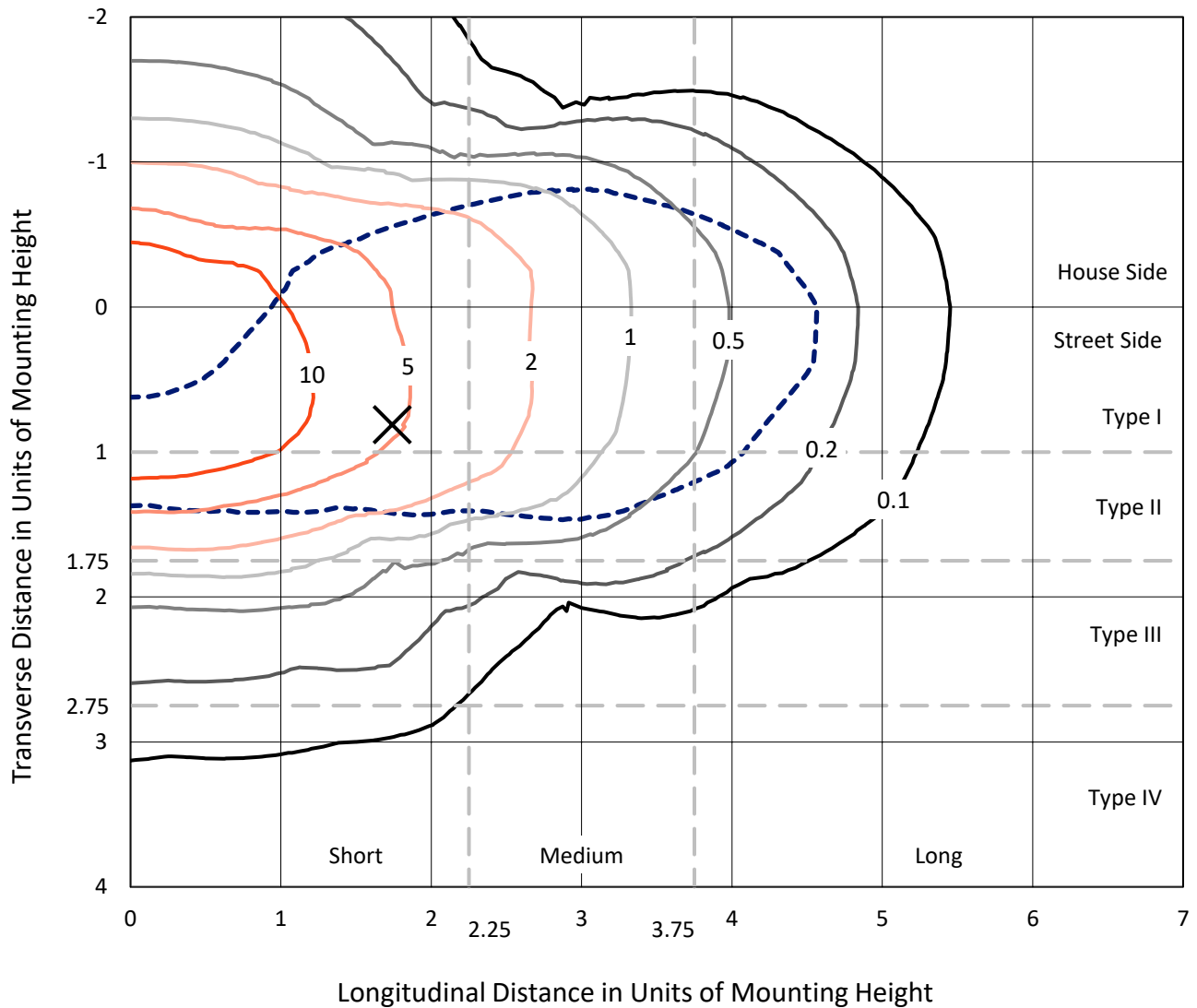
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

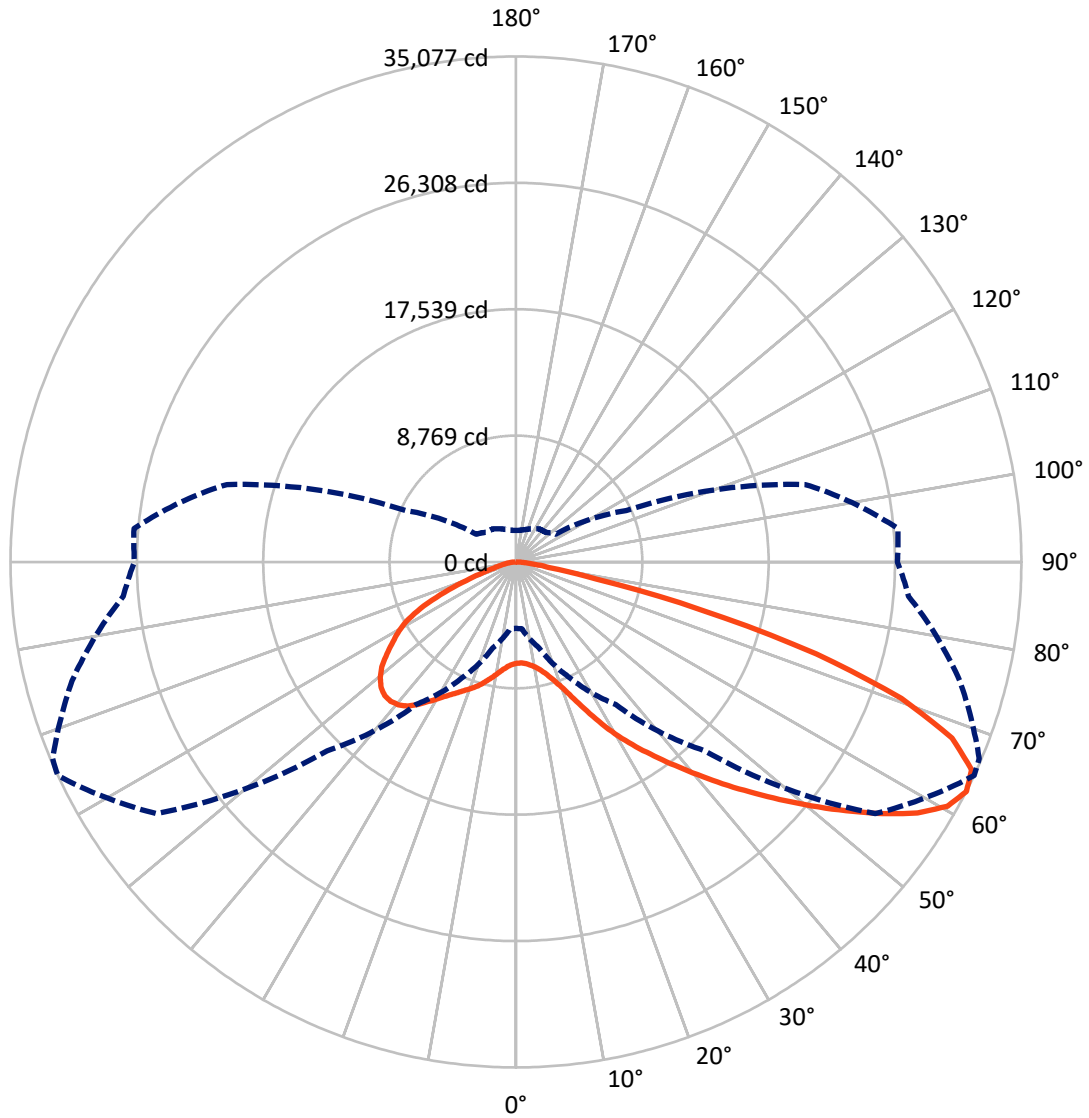
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20123.7	0.0	20123.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	43648.3	0.0	43648.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	63772.0	0.0	63772.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.6	1.1
10°-20°	2375.9	3.7
20°-30°	4817.4	7.6
30°-40°	8336.3	13.1
40°-50°	12615.5	19.8
50°-60°	14790.8	23.2
60°-70°	12400.3	19.4
70°-80°	6846.0	10.7
80°-90°	889.3	1.4
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°	63772.0	100.0
0°-180°	63772.0	100.0

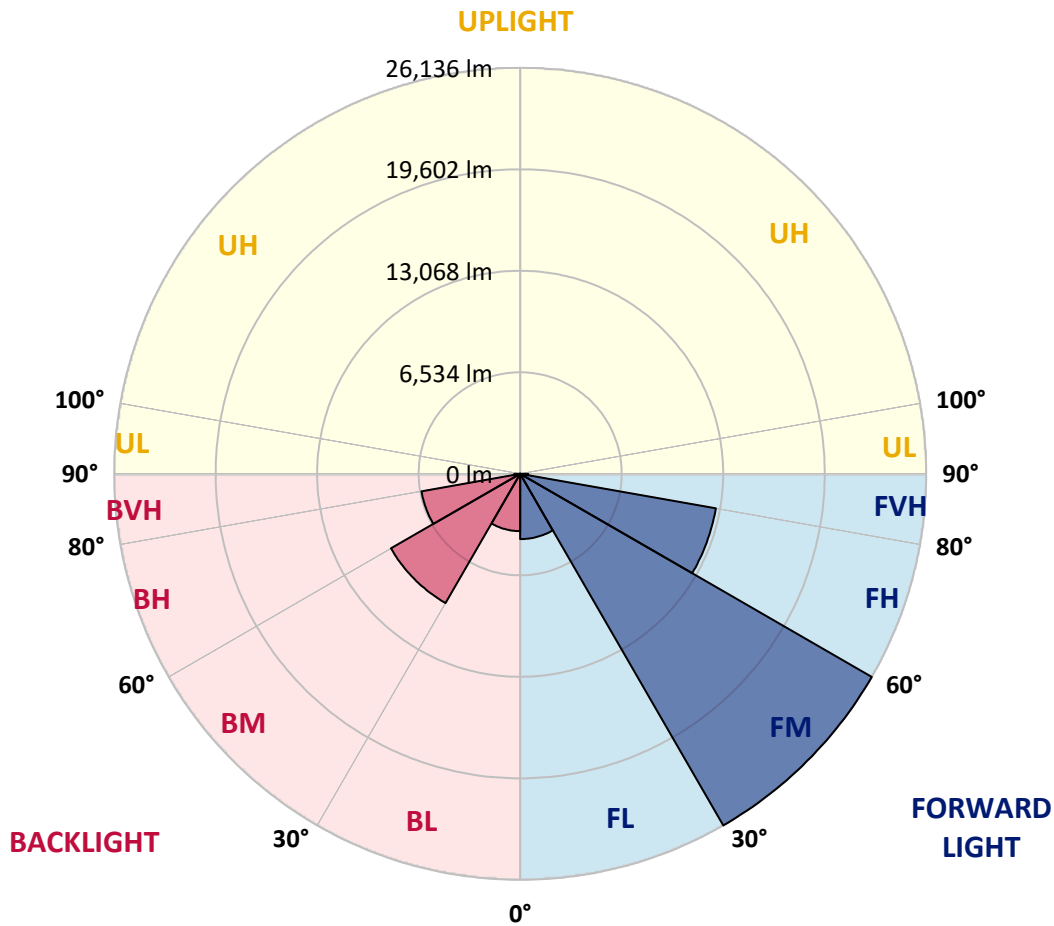


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4203.4	6.6			
FM (30°-60°)	26135.8	41.0			
FH (60°-80°)	12790.8	20.1			G5
FVH (80°-90°)	518.3	0.8			G4/750
BL (0°-30°)	3690.4	5.8	B4/5000		
BM (30°-60°)	9606.8	15.1	B5		
BH (60°-80°)	6455.5	10.1	B5		G5
BVH (80°-90°)	371.0	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4
2.5°	6981.1	6961.2	6977.8	6977.8	6984.4	6981.1	7004.2	7010.9	7020.8	7040.6
5°	6911.6	6908.3	6938.1	6964.5	6991.0	7014.2	7043.9	7087.0	7093.6	7116.7
7.5°	6888.4	6868.6	6914.9	6948.0	7010.9	7067.1	7146.5	7219.3	7249.1	7259.0
10°	7067.1	7034.0	7077.0	7096.9	7149.8	7206.1	7298.7	7414.5	7447.6	7487.3
12.5°	7371.5	7335.1	7398.0	7427.7	7477.4	7527.0	7589.9	7702.3	7718.9	7791.7
15°	7788.4	7745.4	7785.1	7821.5	7904.2	7950.5	8013.4	8122.5	8122.5	8178.8
17.5°	8354.1	8297.9	8327.7	8340.9	8393.8	8463.3	8569.2	8665.1	8714.8	8694.9
20°	9197.8	9128.3	9128.3	9062.2	9042.3	9098.6	9237.5	9369.9	9422.8	9320.2
22.5°	10465.0	10365.7	10309.5	10084.5	9995.2	10001.8	10140.8	10302.9	10345.9	10163.9
25°	12076.3	11920.8	11844.7	11513.8	11312.0	11136.6	11245.8	11454.3	11513.8	11288.8
27.5°	13687.5	13697.5	13624.7	13227.7	12893.5	12572.6	12516.3	12734.7	12797.5	12542.8
30°	15947.3	15712.4	15573.4	15097.0	14620.6	14170.6	13939.0	14028.3	14044.9	13740.5
32.5°	17896.0	17836.5	17538.7	17121.8	16509.8	15805.0	15417.9	15275.7	15249.2	14815.8
35°	20116.1	20083.0	19768.7	19272.4	18610.7	17631.4	16933.2	16526.3	16493.2	15884.4
37.5°	22372.5	22372.5	22064.8	21522.2	20837.4	19613.2	18551.1	17906.0	17800.1	17006.0
40°	24172.4	24063.2	24119.5	23891.2	23107.0	21806.8	20347.7	19411.4	19269.1	18316.2
42.5°	25194.7	25158.3	25495.8	25750.6	25429.7	24390.8	22326.2	21042.5	20844.0	19758.8
45°	25423.0	25383.3	25985.5	26918.5	27368.5	26941.7	24476.8	22759.6	22518.1	21267.5
47.5°	24897.0	24817.6	25701.0	27173.3	28615.8	29366.8	26806.0	24622.4	24271.7	22736.5
50°	23315.5	23239.4	24576.0	26531.4	29036.0	31014.5	29333.8	26597.6	26061.6	24311.4
52.5°	19877.9	19914.3	22008.6	24695.1	28483.5	32040.2	31510.8	28678.7	28033.5	25922.6
55°	15484.1	15563.5	18137.6	21095.4	26273.3	31884.7	32996.3	30822.6	30180.8	27438.0
57.5°	11087.0	11437.7	13849.7	16777.7	22028.4	29419.8	33320.6	32860.7	32238.7	29092.2
60°	7186.2	7249.1	9730.5	12681.7	16774.4	25039.2	32662.2	34405.8	33919.4	30779.6
62.5°	4605.5	4648.5	6160.6	8870.3	12073.0	18524.7	30445.4	35077.4	34928.5	31894.6
65°	3384.7	3351.6	4139.0	5862.8	8132.5	11424.5	26141.0	34753.2	35047.7	32592.7
67.5°	2825.5	2779.2	3166.3	4059.6	5991.8	6488.1	19341.9	32645.6	33724.2	32513.3
70°	2574.1	2534.4	2769.3	3014.1	4675.0	4344.1	9750.3	28380.9	30041.8	31610.1
72.5°	2180.3	2110.9	2431.8	2676.6	3636.1	3331.7	4029.8	21800.2	23825.0	28715.1
75°	1690.7	1644.4	1919.0	2355.7	2732.9	2600.5	2547.6	13237.6	15447.7	22207.1
77.5°	1340.0	1277.1	1528.6	1836.3	2458.3	1962.0	1856.1	5700.7	7890.9	14177.2
80°	1009.1	952.9	1161.3	1452.5	1889.2	1478.9	1201.0	2325.9	2974.4	7182.9
82.5°	718.0	668.3	810.6	1065.4	1270.5	1326.7	737.8	1303.6	1465.7	2769.3
85°	459.9	430.1	542.6	668.3	807.3	853.6	450.0	681.6	747.7	1141.5
87.5°	251.5	205.1	291.2	311.0	373.9	340.8	215.1	248.1	268.0	413.6
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°
7027.4	0°	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4	7027.4
7040.6	2.5°	7053.9	7063.8	7096.9	7106.8	7130.0	7159.7	7179.6	7199.4	7199.4	7219.3
7146.5	5°	7149.8	7173.0	7242.5	7278.8	7338.4	7398.0	7434.4	7477.4	7503.8	7517.1
7315.2	7.5°	7335.1	7371.5	7470.7	7533.6	7636.2	7718.9	7775.1	7834.7	7847.9	7884.3
7550.2	10°	7586.5	7629.6	7742.0	7861.2	7983.6	8086.1	8139.1	8182.1	8198.6	8205.2
7851.2	12.5°	7874.4	7937.3	8082.8	8228.4	8357.4	8446.8	8460.0	8450.1	8403.8	8364.1
8221.8	15°	8228.4	8284.7	8446.8	8605.6	8731.3	8747.9	8665.1	8612.2	8556.0	8546.0
8635.4	17.5°	8651.9	8681.7	8830.6	8986.1	8996.0	8939.8	8817.3	8767.7	8714.8	8678.4
9174.7	20°	9144.9	9135.0	9240.8	9307.0	9237.5	9065.5	8880.2	8797.5	8744.5	8701.5
9836.4	22.5°	9733.8	9657.7	9644.5	9627.9	9442.7	9082.0	8830.6	8724.7	8642.0	8582.4
10759.5	25°	10590.7	10299.6	10097.7	9985.3	9568.4	8992.7	8671.8	8436.8	8281.3	8178.8
11887.7	27.5°	11662.7	11173.0	10663.5	10388.9	9568.4	8810.7	8288.0	7907.5	7652.7	7546.8
12979.5	30°	12685.0	12172.2	11421.2	10875.3	9545.2	8512.9	7669.3	7139.9	6842.1	6736.2
13912.5	32.5°	13558.5	12999.4	12225.2	11407.9	9489.0	8029.9	6901.7	6316.1	6028.2	5902.5
14835.6	35°	14369.1	13773.6	13032.4	11993.6	9340.1	7321.9	6058.0	5611.3	5290.4	5088.6
15775.3	37.5°	15199.6	14491.5	13796.7	12522.9	9072.1	6494.7	5409.5	5029.0	4651.8	4380.5
16774.4	40°	16102.8	15255.8	14613.9	12837.2	8632.1	5707.3	4906.6	4559.2	4158.9	3871.0
17925.8	42.5°	17158.2	16172.3	15523.8	12999.4	8029.9	5148.1	4579.1	4238.3	3861.1	3626.2
19159.9	45°	18260.0	17181.4	16354.3	12996.1	7358.3	4886.8	4473.2	4135.7	3718.8	3474.0
20427.1	47.5°	19414.7	18236.8	17072.2	12784.3	6775.9	4923.1	4413.6	3914.0	3454.1	3215.9
21707.5	50°	20572.7	19391.5	17767.0	12387.3	6527.8	4843.7	4192.0	3603.0	3060.4	2845.4
22908.5	52.5°	21720.7	20619.0	18365.9	11821.5	6276.4	4549.3	3907.4	3199.4	2898.3	2749.4
24149.2	55°	22875.4	21833.2	19017.6	10997.7	5647.7	4205.2	3431.0	3047.2	2769.3	2633.6
25363.5	57.5°	24033.4	23236.1	19636.3	10173.8	4857.0	3781.7	3169.6	2861.9	2640.2	2524.4
26379.2	60°	25237.8	24840.7	20274.9	9416.2	4076.2	3239.1	2977.7	2713.0	2488.0	2359.0
27355.2	62.5°	26478.5	26607.5	20774.5	8440.2	3358.2	2908.2	2805.7	2534.4	2316.0	2193.6
28162.5	65°	27729.1	28311.4	21102.0	7087.0	2723.0	2593.9	2620.4	2339.2	2117.5	2011.6
28754.8	67.5°	28672.0	29538.9	21009.4	5363.2	2233.3	2296.1	2388.8	2134.0	1925.6	1842.9
28658.8	70°	28777.9	29393.3	20096.2	3672.5	1869.3	2005.0	2130.7	1932.2	1717.1	1657.6
27308.9	72.5°	27368.5	27408.2	17552.0	2398.7	1581.5	1760.2	1859.4	1727.1	1518.6	1459.1
23891.2	75°	23672.8	22667.0	12886.9	1581.5	1323.4	1512.0	1604.7	1512.0	1310.2	1323.4
17876.2	77.5°	17935.7	16053.2	7824.8	1124.9	1105.1	1270.5	1396.2	1330.0	1158.0	1300.3
8989.4	80°	9240.8	8685.0	3490.5	840.4	873.5	1015.7	1148.1	1062.1	916.5	873.5
2008.3	82.5°	2117.5	2461.6	1376.4	602.2	631.9	731.2	876.8	797.4	658.4	555.8
837.1	85°	741.1	810.6	608.8	377.2	370.6	456.6	595.5	532.7	446.7	357.3
354.0	87.5°	234.9	307.7	228.3	152.2	158.8	205.1	274.6	251.5	208.4	135.7
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°
7027.4
7219.3
7523.7
7871.1
8188.7
8364.1
8546.0
8681.7
8704.8
8602.3
8218.5
7599.8
6799.1
5965.3
5154.7
4453.3
3927.3
3672.5
3513.7
3249.0
2858.6
2749.4
2620.4
2504.6
2349.1
2190.3
2008.3
1846.2
1660.9
1455.8
1277.1
1144.8
797.4
549.2
377.2
142.3
0.0

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