

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: P954727

Luminaire Tested: **GALN-SB7D-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954727  
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-SB7D-927-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

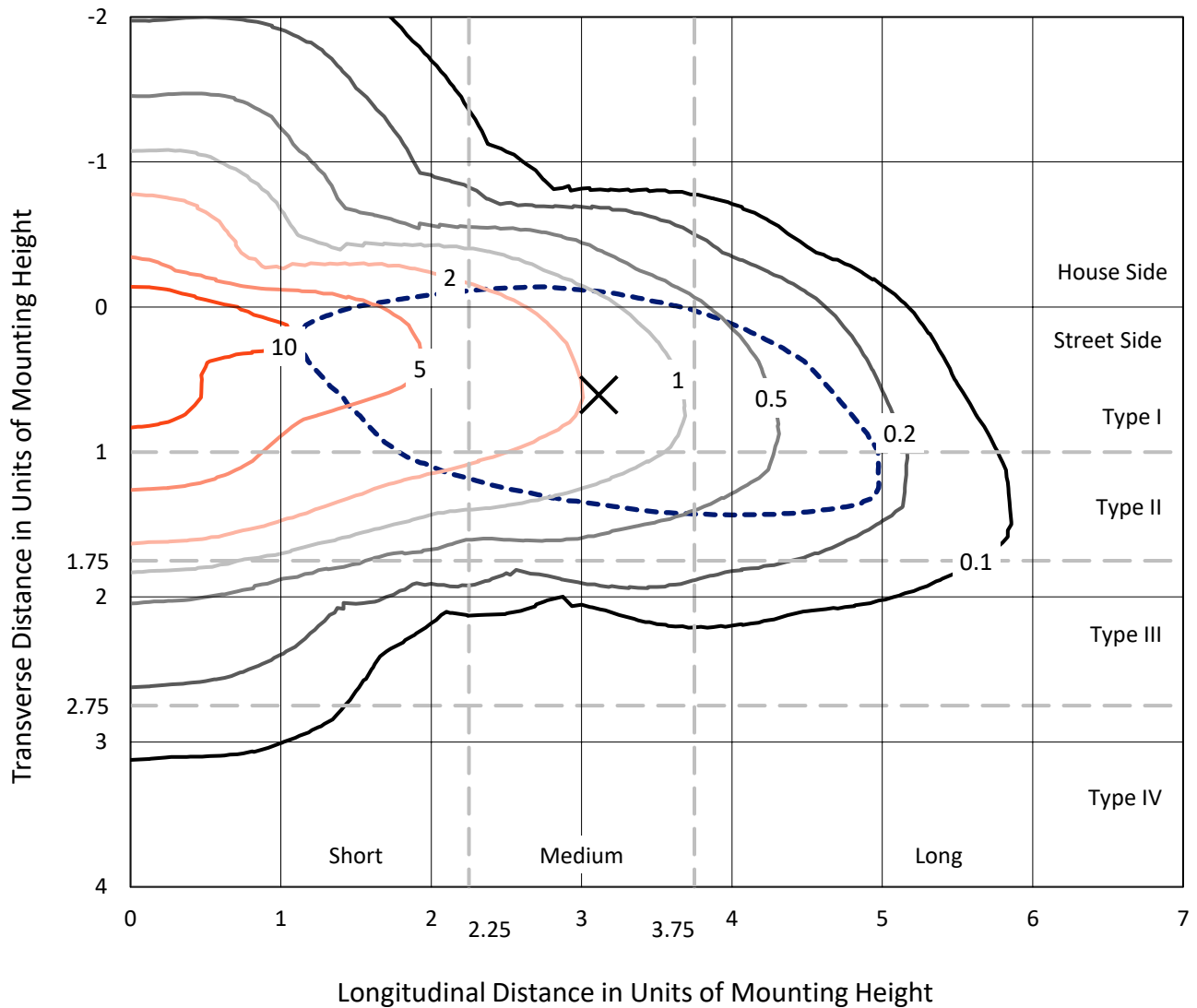
Lumens per Lamp: N/A  
Luminaire Lumens: 43784 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

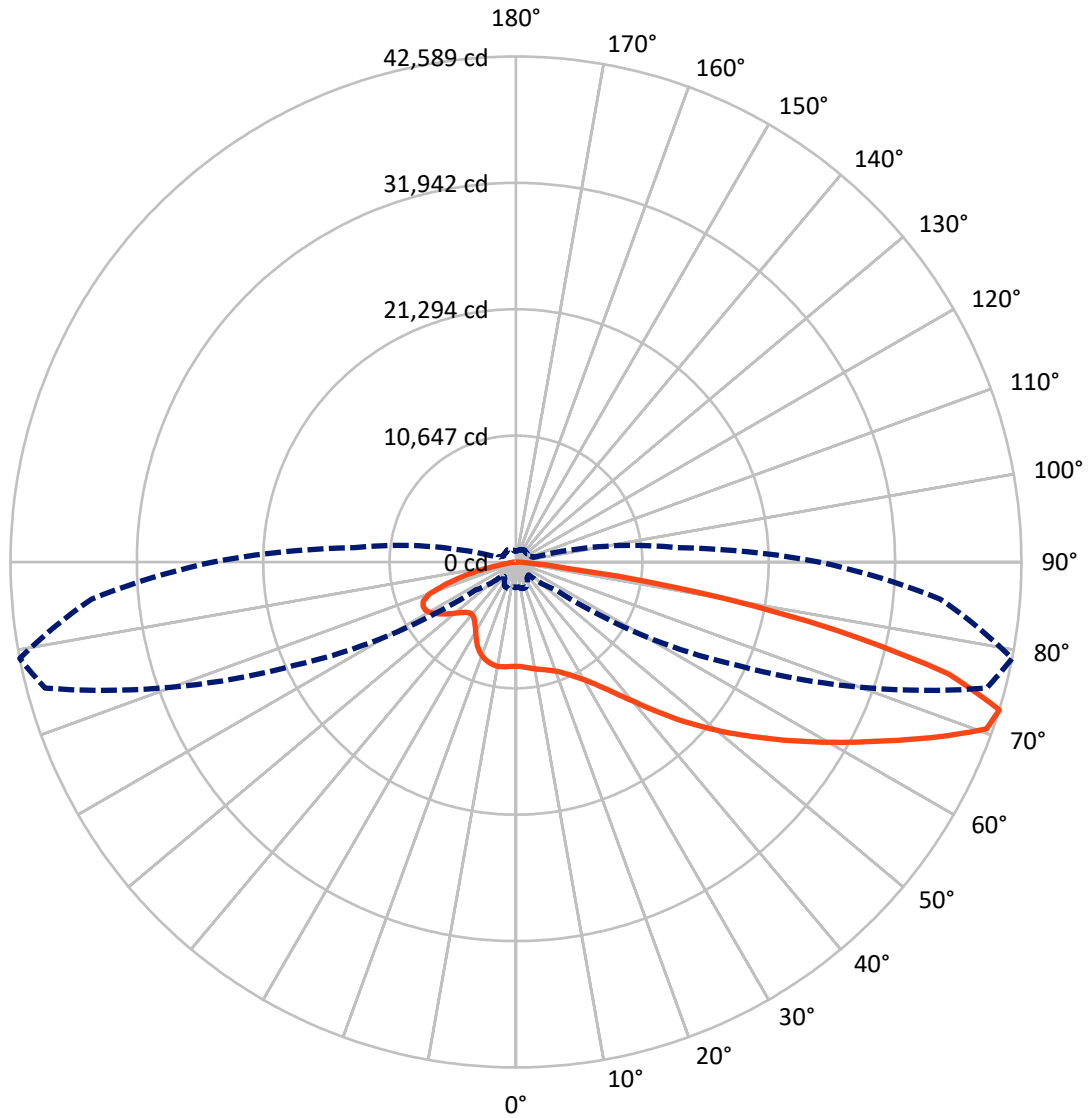
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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
<b>House Side</b>	Lumens	9634.9	0.0	9634.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	34149.1	0.0	34149.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	43784.0	0.0	43784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	797.8	1.8
10°-20°	2085.9	4.8
20°-30°	3365.7	7.7
30°-40°	5051.5	11.5
40°-50°	7165.8	16.4
50°-60°	9049.5	20.7
60°-70°	9191.0	21.0
70°-80°	6264.1	14.3
80°-90°	812.7	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°	43784.0	100.0
0°-180°	43784.0	100.0

**Coefficient of Utilization**



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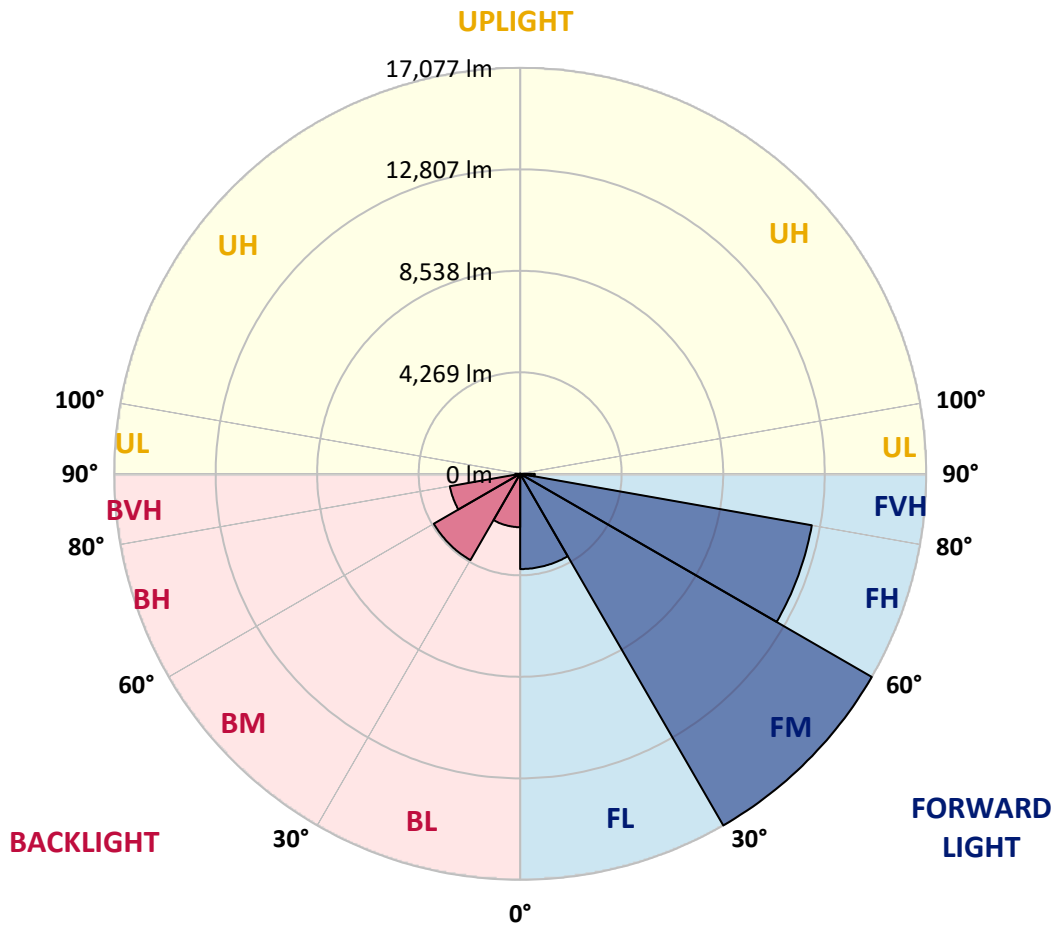
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4005.2	9.1			
FM (30°-60°)	17076.7	39.0			
FH (60°-80°)	12455.1	28.4			G5
FVH (80°-90°)	612.2	1.4			G4/750
BL (0°-30°)	2244.2	5.1	B3/2500		
BM (30°-60°)	4190.2	9.6	B3/5000		
BH (60°-80°)	3000.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	200.5	0.5			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2
2.5°	8793.9	8752.2	8777.6	8768.4	8780.0	8793.9	8798.5	8805.4	8828.6	8826.3
5°	8775.3	8733.6	8768.4	8756.8	8786.9	8819.3	8847.1	8872.6	8909.7	8925.9
7.5°	8736.0	8708.2	8742.9	8777.6	8833.2	8881.9	8921.2	8979.1	9032.4	9041.7
10°	8506.7	8485.8	8566.9	8657.2	8810.1	8942.1	9027.8	9094.9	9152.8	9162.1
12.5°	8268.1	8242.6	8333.0	8455.7	8703.5	8942.1	9122.7	9210.7	9261.7	9291.8
15°	8228.7	8207.9	8258.9	8365.4	8571.5	8879.5	9187.6	9349.7	9393.7	9428.4
17.5°	8418.7	8379.3	8400.1	8437.2	8557.6	8821.6	9238.5	9507.2	9574.3	9611.4
20°	8858.7	8803.1	8770.7	8696.6	8675.7	8830.9	9233.9	9697.1	9785.1	9831.4
22.5°	9444.6	9407.6	9338.1	9150.5	8946.7	8944.4	9321.9	9940.3	10104.7	10148.7
25°	10153.3	10097.8	10009.8	9755.0	9363.6	9169.0	9470.1	10250.6	10526.2	10537.8
27.5°	10968.6	10885.2	10764.8	10429.0	9900.9	9521.1	9697.1	10607.3	11010.3	11005.6
30°	11827.8	11744.4	11617.1	11209.4	10544.8	9995.9	10012.1	10991.7	11584.6	11559.2
32.5°	12455.5	12392.9	12367.4	12052.5	11285.9	10556.3	10373.4	11417.9	12293.3	12270.2
35°	12937.2	12856.1	12886.2	12726.4	12094.2	11184.0	10815.7	11925.1	13154.9	13152.6
37.5°	13414.3	13342.5	13368.0	13261.4	12842.2	11980.7	11355.4	12545.8	14222.6	14273.5
40°	13849.7	13773.3	13875.2	13775.6	13423.5	12828.3	11969.1	13247.5	15459.3	15556.6
42.5°	14111.4	14051.2	14220.2	14222.6	13928.4	13544.0	12643.0	14021.1	16890.6	17108.3
45°	14201.7	14180.9	14435.6	14488.9	14375.4	13958.5	13249.8	14864.1	18433.0	18822.1
47.5°	14104.4	14065.1	14417.1	14614.0	14704.3	14153.1	13752.4	15776.6	20007.9	20577.7
50°	13613.5	13537.0	14060.4	14475.0	14796.9	14280.5	14259.6	16830.4	21798.2	22421.2
52.5°	12731.1	12673.2	13268.4	13988.6	14593.1	14343.0	14829.4	17981.4	23498.1	24304.1
55°	11603.2	11526.7	12182.2	13122.5	14085.9	14322.1	15399.1	19269.1	25503.8	26321.3
57.5°	9815.2	9662.4	10491.5	11603.2	13259.1	14296.7	15992.0	20549.9	27541.9	28521.5
60°	7207.4	6980.4	7997.1	9315.0	11642.5	14048.9	16726.2	21985.8	29987.6	30870.0
62.5°	4196.6	4064.6	4729.3	5959.1	8775.3	12589.8	17138.4	23655.6	32391.6	33318.0
65°	3258.6	3221.6	3279.5	3374.4	4884.4	9426.1	15866.9	25283.8	35448.7	36097.2
67.5°	2980.7	2952.9	2978.4	2800.0	2478.1	5250.4	12552.7	25696.0	38723.5	39117.2
70°	2649.5	2617.1	2700.5	2547.6	1950.1	2387.8	8110.6	24199.9	41329.0	42067.8
72.5°	2158.5	2121.5	2316.0	2246.5	1642.0	1533.2	4073.8	20644.8	41055.7	42588.9
75°	1658.3	1637.4	1869.0	1926.9	1338.6	1206.6	1954.7	15345.8	36129.6	37674.4
77.5°	1287.7	1271.5	1389.6	1600.4	1079.3	935.7	1202.0	9734.1	27226.9	27497.9
80°	965.8	919.5	1028.3	1239.1	840.7	683.2	815.2	5676.5	17210.2	15600.6
82.5°	604.5	581.3	671.6	826.8	592.9	470.1	530.4	3135.9	6897.0	4062.3
85°	345.1	335.8	365.9	472.5	321.9	271.0	303.4	1385.0	1259.9	866.2
87.5°	139.0	134.3	166.8	210.8	118.1	99.6	106.5	333.5	277.9	257.1
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°
8789.2	0°	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2	8789.2
8824.0	2.5°	8814.7	8814.7	8782.3	8731.3	8673.4	8636.4	8576.1	8559.9	8497.4	8478.9
8902.7	5°	8921.2	8902.7	8803.1	8659.5	8462.7	8282.0	8082.8	7957.8	7781.8	7719.2
9057.9	7.5°	9055.6	9004.6	8833.2	8518.2	8106.0	7700.7	7279.2	6959.6	6653.9	6545.0
9185.3	10°	9178.3	9106.5	8814.7	8263.5	7550.2	6848.4	6176.8	5706.6	5350.0	5204.1
9326.5	12.5°	9301.1	9169.0	8691.9	7839.7	6760.4	5808.5	5092.9	4727.0	4506.9	4330.9
9442.3	15°	9416.9	9231.6	8502.0	7272.2	5894.2	4928.4	4400.4	4108.6	3932.6	3816.8
9611.4	17.5°	9551.2	9284.8	8217.2	6552.0	5069.7	4319.3	3888.6	3712.5	3677.8	3663.9
9843.0	20°	9738.8	9333.5	7842.0	5746.0	4462.9	3833.0	3610.6	3594.4	3592.1	3585.2
10120.9	22.5°	9940.3	9391.4	7346.4	5014.1	3946.5	3529.6	3490.2	3457.8	3436.9	3434.6
10456.7	25°	10178.8	9409.9	6725.7	4414.3	3506.4	3386.0	3339.7	3291.0	3277.1	3277.1
10838.9	27.5°	10410.4	9347.4	6003.1	3893.2	3258.6	3254.0	3193.8	3177.6	3175.2	3182.2
11274.3	30°	10642.0	9229.3	5285.1	3411.5	3115.0	3115.0	3094.2	3105.8	3115.0	3138.2
11871.8	32.5°	10954.7	9104.2	4685.3	3054.8	2990.0	2966.8	2987.6	3010.8	3020.1	3050.2
12656.9	35°	11413.3	9016.2	4208.2	2860.3	2860.3	2830.2	2841.7	2837.1	2816.3	2802.4
13606.5	37.5°	12020.0	9011.6	3814.5	2769.9	2751.4	2746.8	2749.1	2719.0	2637.9	2540.7
14755.2	40°	12749.6	9136.6	3511.1	2707.4	2693.5	2721.3	2707.4	2626.3	2404.0	2234.9
16168.0	42.5°	13729.3	9493.3	3316.5	2631.0	2672.7	2707.4	2651.8	2371.6	2221.0	2107.6
17777.6	45°	14882.6	10072.3	3216.9	2549.9	2633.3	2675.0	2406.3	2283.6	2163.1	2026.5
19533.1	47.5°	16188.8	10801.8	3193.8	2473.5	2545.3	2570.8	2302.1	2246.5	2109.9	1961.7
21297.9	50°	17610.9	11665.7	3256.3	2383.2	2417.9	2329.9	2267.4	2216.4	2075.1	1929.2
23106.7	52.5°	19081.5	12617.6	3381.4	2260.4	2290.5	2193.3	2253.5	2209.5	2054.3	1857.4
24975.7	55°	20526.7	13576.4	3501.8	2116.8	2160.8	2070.5	2214.1	2181.7	1959.3	1737.0
26969.8	57.5°	21995.1	14530.6	3619.9	1989.4	2035.8	1952.4	2151.6	2107.6	1852.8	1625.8
29146.9	60°	23521.3	15457.0	3675.5	1866.7	1899.1	1843.5	2056.6	1980.2	1732.4	1512.3
31286.9	62.5°	24950.3	16228.2	3585.2	1743.9	1764.8	1741.6	1931.5	1829.6	1611.9	1385.0
33517.2	65°	26383.9	16686.8	3307.2	1623.5	1628.1	1616.6	1755.5	1667.5	1470.7	1273.8
35469.5	67.5°	27683.2	16943.9	2864.9	1493.8	1482.2	1477.6	1591.1	1491.5	1334.0	1162.6
36954.1	70°	27958.8	16290.7	2188.6	1341.0	1341.0	1329.4	1410.4	1308.5	1183.5	1044.5
<b>35891.1</b>	<b>72.5°</b>	<b>25536.2</b>	<b>13703.8</b>	<b>1554.0</b>	<b>1167.3</b>	<b>1185.8</b>	<b>1162.6</b>	<b>1229.8</b>	<b>1144.1</b>	<b>1030.6</b>	<b>938.0</b>
30932.5	75°	20591.6	10049.1	1130.2	988.9	1021.4	982.0	1044.5	984.3	887.0	884.7
21316.5	77.5°	14148.4	6213.8	819.9	815.2	838.4	787.4	859.2	826.8	738.8	699.4
9277.9	80°	6037.8	2478.1	597.5	630.0	630.0	583.6	667.0	676.3	599.8	581.3
1790.3	82.5°	1202.0	704.1	419.2	433.1	407.6	393.7	472.5	523.4	722.6	803.7
539.6	85°	361.3	259.4	252.4	236.2	208.4	210.8	277.9	525.7	648.5	370.6
178.3	87.5°	99.6	64.8	67.2	53.3	44.0	57.9	95.0	398.4	217.7	92.6
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°
8789.2
8509.0
7765.5
6558.9
5236.5
4388.8
3837.6
3673.2
3608.3
3460.1
3291.0
3200.7
3154.4
3075.6
2834.8
2543.0
2230.3
2102.9
2017.2
1950.1
1913.0
1843.5
1725.4
1621.2
1505.4
1382.7
1259.9
1148.7
1039.9
910.2
796.7
655.4
581.3
806.0
319.6
78.7
0.0

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