

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: P954433

Luminaire Tested: **GALN-SB7C-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954433  
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-SB7C-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

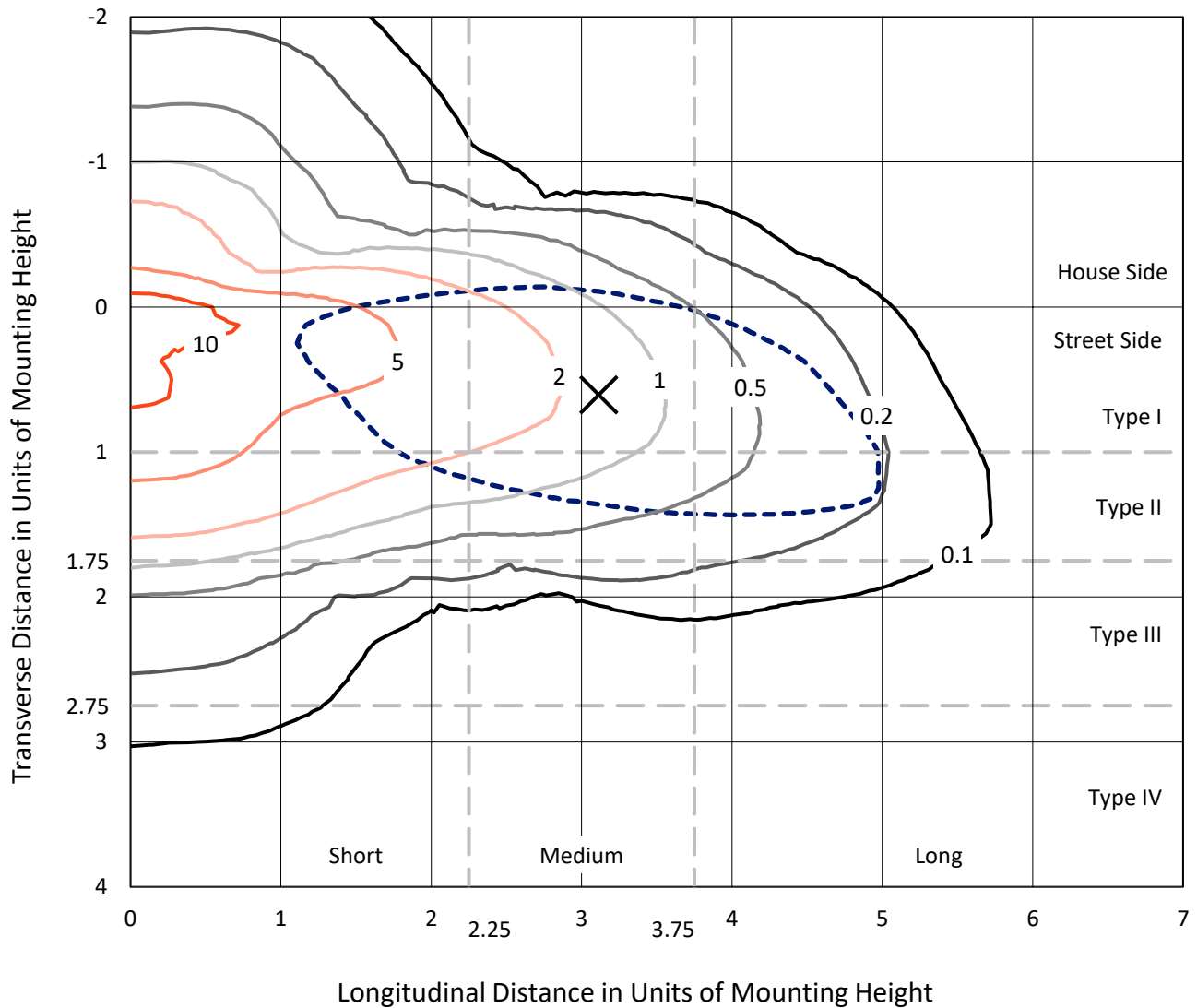
Lumens per Lamp: N/A  
Luminaire Lumens: 38361 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

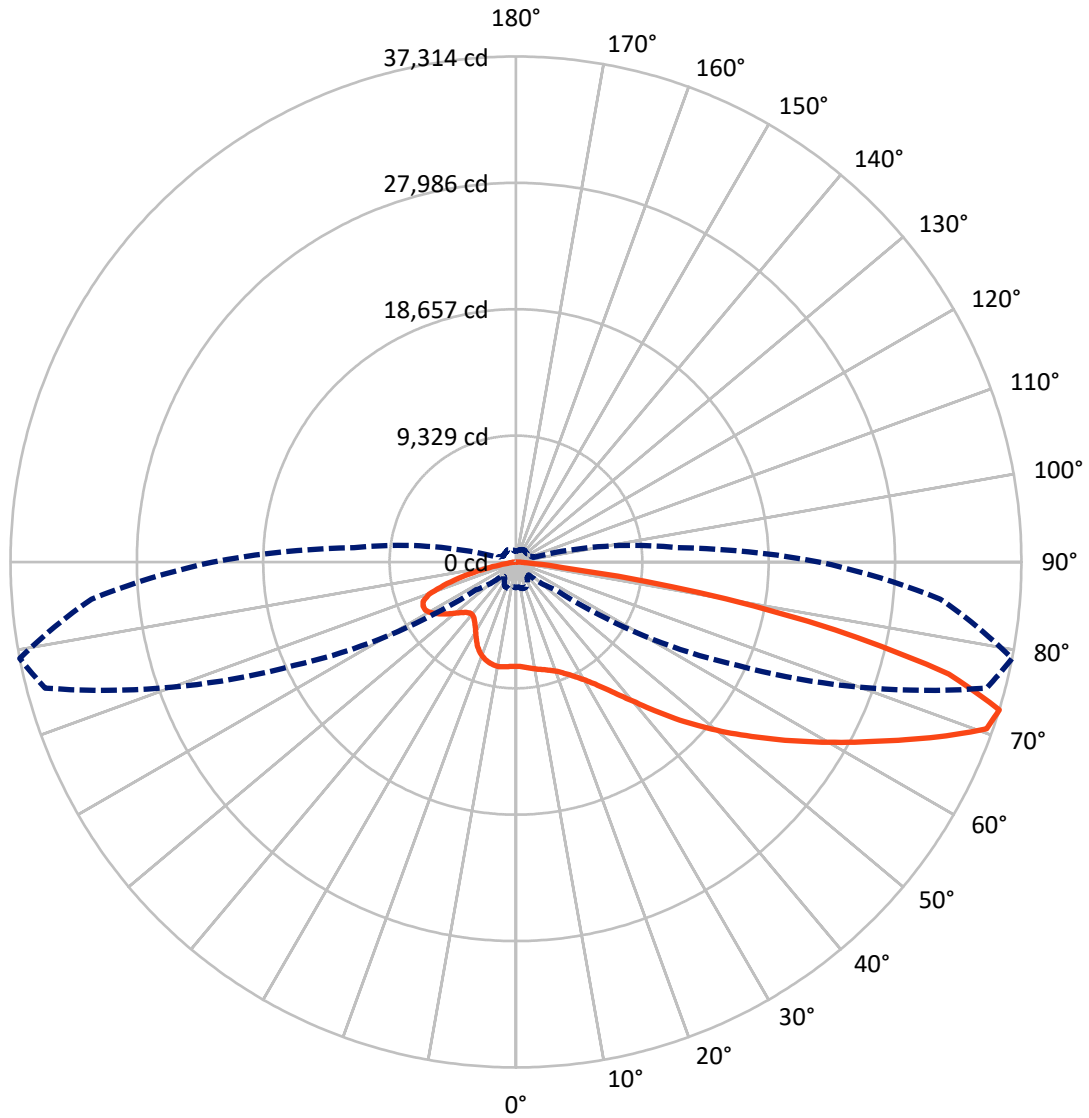
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	8441.5	0.0	8441.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	29919.5	0.0	29919.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	38361.0	0.0	38361.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.0	1.8
10°-20°	1827.5	4.8
20°-30°	2948.9	7.7
30°-40°	4425.8	11.5
40°-50°	6278.3	16.4
50°-60°	7928.6	20.7
60°-70°	8052.6	21.0
70°-80°	5488.2	14.3
80°-90°	712.1	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°	38361.0	100.0
0°-180°	38361.0	100.0

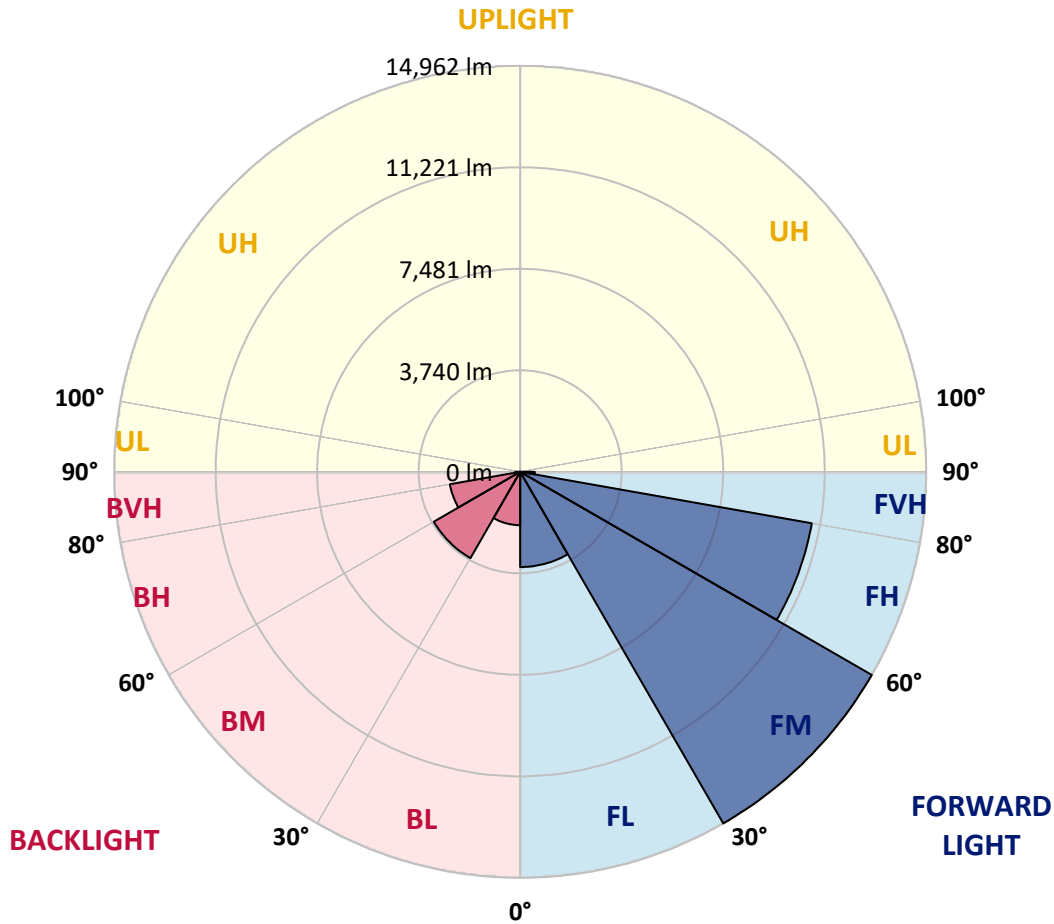


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3509.1	9.1			
FM (30°-60°)	14961.6	39.0			
FH (60°-80°)	10912.4	28.4			G4/12000
FVH (80°-90°)	536.4	1.4			G4/750
BL (0°-30°)	1966.3	5.1	B3/2500		
BM (30°-60°)	3671.2	9.6	B3/5000		
BH (60°-80°)	2628.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	175.7	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-G4**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6
2.5°	7704.7	7668.1	7690.5	7682.3	7692.5	7704.7	7708.7	7714.8	7735.1	7733.1
5°	7688.4	7651.9	7682.3	7672.2	7698.6	7727.0	7751.3	7773.7	7806.1	7820.3
7.5°	7653.9	7629.6	7660.0	7690.5	7739.2	7781.8	7816.3	7867.0	7913.7	7921.8
10°	7453.1	7434.8	7505.8	7584.9	7718.9	7834.5	7909.6	7968.5	8019.2	8027.3
12.5°	7244.0	7221.7	7300.9	7408.4	7625.5	7834.5	7992.8	8069.9	8114.6	8140.9
15°	7209.6	7191.3	7235.9	7329.3	7509.9	7779.7	8049.6	8191.7	8230.2	8260.7
17.5°	7375.9	7341.4	7359.7	7392.2	7497.7	7729.0	8094.3	8329.6	8388.5	8421.0
20°	7761.5	7712.8	7684.4	7619.4	7601.2	7737.1	8090.2	8496.0	8573.1	8613.7
22.5°	8274.9	8242.4	8181.5	8017.2	7838.6	7836.6	8167.3	8709.1	8853.2	8891.7
25°	8895.8	8847.1	8770.0	8546.8	8203.8	8033.4	8297.2	8981.0	9222.5	9232.6
27.5°	9610.0	9537.0	9431.5	9137.2	8674.6	8341.8	8496.0	9293.5	9646.6	9642.5
30°	10362.8	10289.8	10178.2	9821.1	9238.7	8757.8	8772.0	9630.3	10149.8	10127.5
32.5°	10912.7	10858.0	10835.6	10559.7	9888.0	9248.8	9088.5	10003.7	10770.7	10750.4
35°	11334.8	11263.8	11290.2	11150.2	10596.2	9798.7	9476.1	10448.1	11525.5	11523.5
37.5°	11752.8	11689.9	11712.2	11618.9	11251.6	10496.8	9948.9	10991.9	12461.0	12505.6
40°	12134.3	12067.3	12156.6	12069.4	11760.9	11239.4	10486.6	11606.7	13544.5	13629.8
42.5°	12363.6	12310.8	12459.0	12461.0	12203.3	11866.4	11077.1	12284.4	14798.6	14989.3
45°	12442.7	12424.5	12647.7	12694.3	12594.9	12229.7	11608.7	13023.1	16150.0	16490.9
47.5°	12357.5	12323.0	12631.4	12803.9	12883.0	12400.1	12049.1	13822.5	17529.8	18029.0
50°	11927.3	11860.4	12318.9	12682.2	12964.2	12511.7	12493.4	14745.8	19098.3	19644.2
52.5°	11154.2	11103.5	11625.0	12256.0	12785.6	12566.5	12992.6	15754.3	20587.7	21293.8
55°	10166.0	10099.1	10673.3	11497.1	12341.3	12548.2	13491.8	16882.5	22344.9	23061.2
57.5°	8599.5	8465.6	9192.0	10166.0	11616.9	12525.9	14011.2	18004.6	24130.6	24988.9
60°	6314.7	6115.8	7006.6	8161.2	10200.5	12308.8	14654.5	19262.7	26273.4	27046.5
62.5°	3676.8	3561.1	4143.5	5221.0	7688.4	11030.4	15015.7	20725.7	28379.6	29191.3
65°	2855.0	2822.5	2873.3	2956.5	4279.5	8258.6	13901.7	22152.2	31058.1	31626.3
67.5°	2611.5	2587.2	2609.5	2453.2	2171.2	4600.1	10998.0	22513.4	33927.3	34272.3
70°	2321.3	2292.9	2366.0	2232.1	1708.5	2092.0	7106.1	21202.5	36210.1	36857.4
72.5°	1891.2	1858.7	2029.1	1968.3	1438.7	1343.3	3569.3	18087.8	35970.7	37314.0
75°	1452.9	1434.6	1637.5	1688.2	1172.8	1057.2	1712.6	13445.1	31654.7	33008.1
77.5°	1128.2	1114.0	1217.5	1402.1	945.6	819.8	1053.1	8528.5	23854.6	24092.0
80°	846.2	805.6	900.9	1085.6	736.6	598.6	714.3	4973.4	15078.6	13668.3
82.5°	529.6	509.3	588.5	724.4	519.5	411.9	464.7	2747.5	6042.8	3559.1
85°	302.3	294.2	320.6	413.9	282.1	237.4	265.8	1213.4	1103.9	758.9
87.5°	121.7	117.7	146.1	184.7	103.5	87.3	93.3	292.2	243.5	225.2
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°
7700.6	0°	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6	7700.6
7731.0	2.5°	7722.9	7722.9	7694.5	7649.9	7599.1	7566.7	7513.9	7499.7	7444.9	7428.7
7800.0	5°	7816.3	7800.0	7712.8	7587.0	7414.5	7256.2	7081.7	6972.1	6817.9	6763.1
7936.0	7.5°	7934.0	7889.3	7739.2	7463.2	7102.0	6746.9	6377.6	6097.6	5829.7	5734.4
8047.6	10°	8041.5	7978.6	7722.9	7240.0	6615.0	6000.2	5411.7	4999.8	4687.3	4559.5
8171.4	12.5°	8149.0	8033.4	7615.4	6868.7	5923.1	5089.1	4462.1	4141.5	3948.7	3794.5
8272.8	15°	8250.5	8088.2	7449.0	6371.5	5164.2	4318.0	3855.4	3599.7	3445.5	3344.0
8421.0	17.5°	8368.2	8134.8	7199.4	5740.5	4441.8	3784.4	3406.9	3252.7	3222.3	3210.1
8623.9	20°	8532.6	8177.5	6870.7	5034.3	3910.2	3358.2	3163.4	3149.2	3147.2	3141.1
8867.4	22.5°	8709.1	8228.2	6436.4	4393.1	3457.7	3092.4	3057.9	3029.5	3011.3	3009.2
9161.6	25°	8918.1	8244.4	5892.6	3867.6	3072.1	2966.6	2926.0	2883.4	2871.2	2871.2
9496.4	27.5°	9121.0	8189.6	5259.5	3411.0	2855.0	2850.9	2798.2	2784.0	2782.0	2788.0
9877.9	30°	9323.9	8086.1	4630.5	2988.9	2729.2	2729.2	2710.9	2721.1	2729.2	2749.5
10401.4	32.5°	9597.9	7976.6	4105.0	2676.4	2619.6	2599.3	2617.6	2637.9	2646.0	2672.4
11089.3	35°	9999.6	7899.5	3687.0	2506.0	2506.0	2479.6	2489.8	2485.7	2467.4	2455.3
11921.2	37.5°	10531.3	7895.4	3342.0	2426.9	2410.6	2406.6	2408.6	2382.2	2311.2	2226.0
12927.7	40°	11170.4	8005.0	3076.2	2372.1	2359.9	2384.2	2372.1	2301.1	2106.3	1958.1
14165.5	42.5°	12028.8	8317.5	2905.7	2305.1	2341.6	2372.1	2323.4	2077.8	1946.0	1846.5
15575.7	45°	13039.3	8824.8	2818.5	2234.1	2307.1	2343.7	2108.3	2000.7	1895.2	1775.5
17113.8	47.5°	14183.7	9463.9	2798.2	2167.1	2230.0	2252.4	2017.0	1968.3	1848.6	1718.7
18660.0	50°	15429.6	10220.8	2853.0	2088.0	2118.4	2041.3	1986.5	1941.9	1818.1	1690.3
20244.8	52.5°	16718.1	11054.8	2962.6	1980.4	2006.8	1921.6	1974.4	1935.8	1799.9	1627.4
21882.3	55°	17984.3	11894.8	3068.1	1854.6	1893.2	1814.1	1939.9	1911.5	1716.7	1521.9
23629.4	57.5°	19270.8	12730.9	3171.6	1743.0	1783.6	1710.6	1885.1	1846.5	1623.3	1424.5
25536.8	60°	20608.0	13542.5	3220.3	1635.5	1663.9	1615.2	1801.9	1734.9	1517.8	1325.0
27411.7	62.5°	21860.0	14218.2	3141.1	1527.9	1546.2	1525.9	1692.3	1603.0	1412.3	1213.4
29365.8	65°	23116.0	14620.0	2897.6	1422.4	1426.5	1416.3	1538.1	1461.0	1288.5	1116.0
31076.4	67.5°	24254.4	14845.2	2510.1	1308.8	1298.7	1294.6	1394.0	1306.8	1168.8	1018.6
32377.0	70°	24495.8	14273.0	1917.5	1174.9	1174.9	1164.7	1235.7	1146.5	1036.9	915.1
31445.7	72.5°	22373.4	12006.5	1361.6	1022.7	1038.9	1018.6	1077.5	1002.4	903.0	821.8
27101.3	75°	18041.1	8804.5	990.2	866.4	894.9	860.4	915.1	862.4	777.2	775.1
18676.3	77.5°	12396.0	5444.2	718.3	714.3	734.6	689.9	752.8	724.4	647.3	612.8
8128.8	80°	5290.0	2171.2	523.5	551.9	551.9	511.3	584.4	592.5	525.5	509.3
1568.5	82.5°	1053.1	616.9	367.3	379.5	357.1	345.0	413.9	458.6	633.1	704.1
472.8	85°	316.5	227.3	221.2	207.0	182.6	184.7	243.5	460.6	568.2	324.7
156.2	87.5°	87.3	56.8	58.8	46.7	38.6	50.7	83.2	349.0	190.7	81.2
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>
7700.6
7455.1
6803.7
5746.5
4587.9
3845.2
3362.3
3218.2
3161.4
3031.5
2883.4
2804.3
2763.7
2694.7
2483.7
2228.0
1954.1
1842.5
1767.4
1708.5
1676.1
1615.2
1511.7
1420.4
1318.9
1211.4
1103.9
1006.5
911.1
797.5
698.0
574.2
509.3
706.1
280.0
69.0
0.0

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