

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: P944816

Luminaire Tested: **GALN-SB9D-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

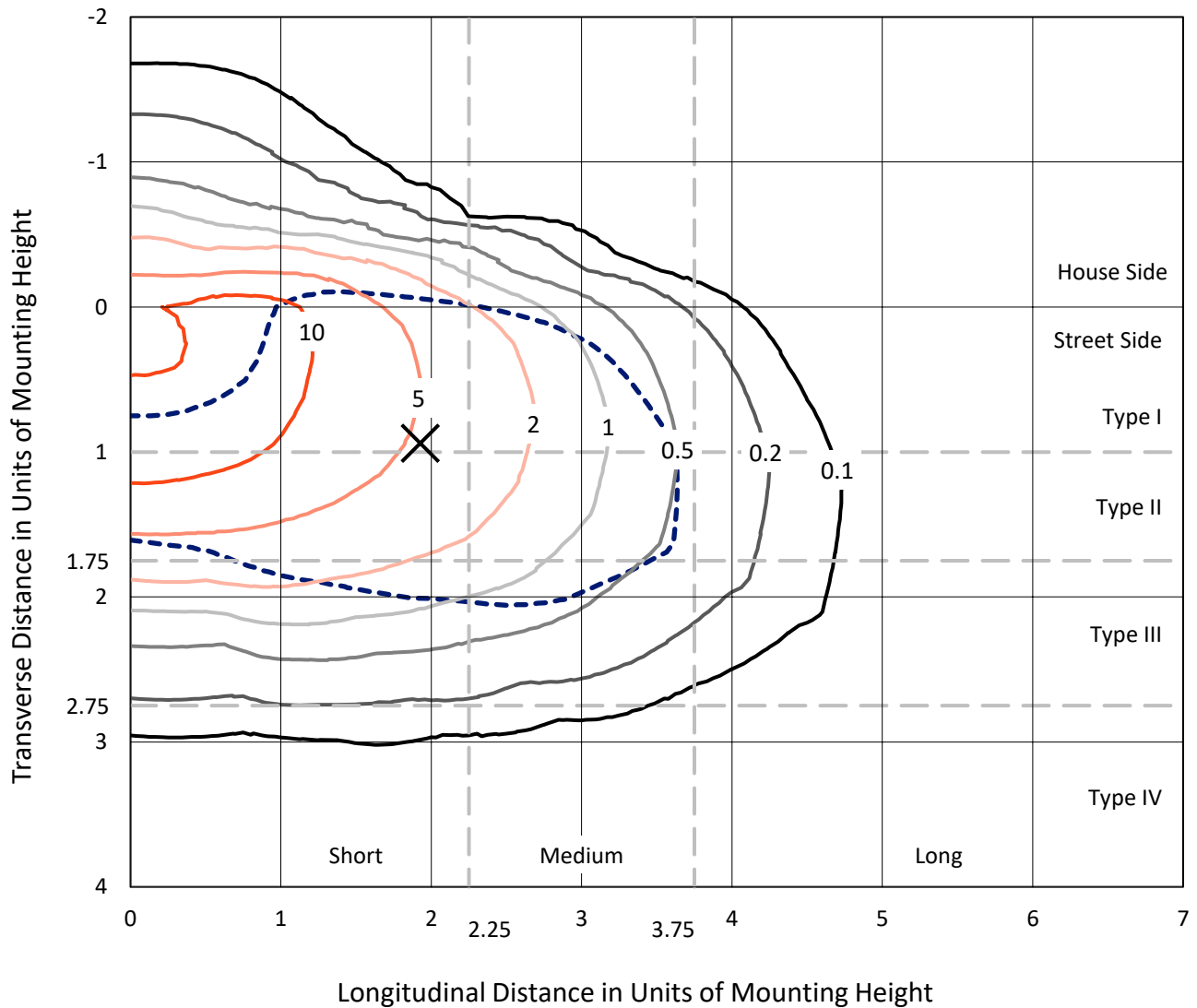
Lumens per Lamp: N/A  
Luminaire Lumens: 52675 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

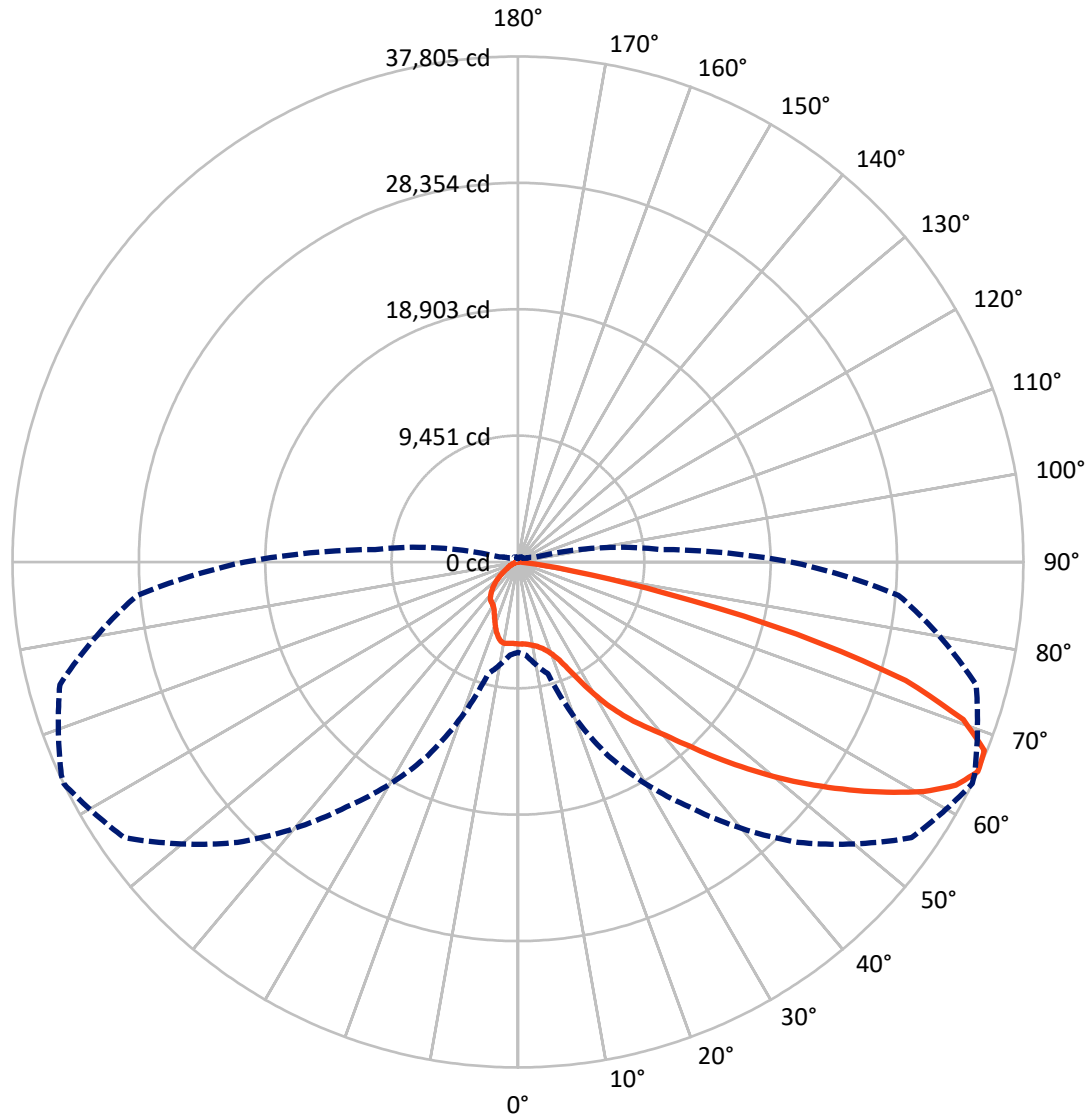
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7044.2	0.0	7044.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	45630.7	0.0	45630.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	52675.0	0.0	52675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.2	1.1
10°-20°	1533.1	2.9
20°-30°	2905.1	5.5
30°-40°	5878.6	11.2
40°-50°	10014.2	19.0
50°-60°	13618.5	25.9
60°-70°	12788.5	24.3
70°-80°	5123.6	9.7
80°-90°	248.2	0.5
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°	52675.0	100.0
0°-180°	52675.0	100.0

**Coefficient of Utilization**



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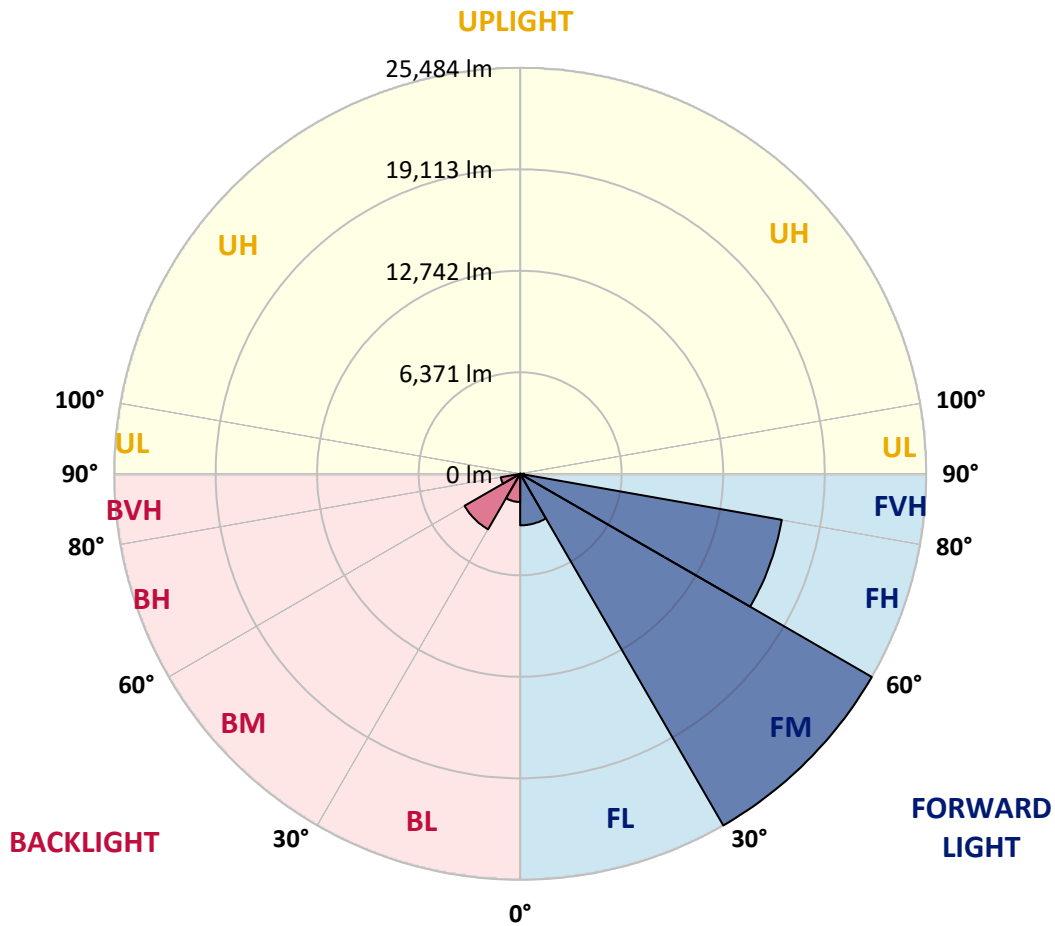
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3234.8	6.1			
FM (30°-60°)	25484.1	48.4			
FH (60°-80°)	16675.7	31.7			G5
FVH (80°-90°)	236.1	0.4			G3/500
BL (0°-30°)	1768.6	3.4	B3/2500		
BM (30°-60°)	4027.1	7.6	B3/5000		
BH (60°-80°)	1236.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6
2.5°	6105.5	6147.8	6137.2	6126.6	6123.1	6130.2	6133.7	6130.2	6130.2	6130.2
5°	5988.9	6024.2	6024.2	6049.0	6084.3	6126.6	6158.4	6172.6	6172.6	6183.1
7.5°	5766.5	5794.7	5815.9	5897.1	5985.4	6098.4	6193.7	6250.2	6250.2	6289.1
10°	5614.6	5649.9	5685.2	5770.0	5897.1	6066.6	6229.1	6366.8	6366.8	6458.6
12.5°	5607.6	5642.9	5688.8	5780.6	5928.9	6109.0	6306.7	6511.6	6511.6	6645.7
15°	5681.7	5724.1	5766.5	5879.5	6038.4	6257.3	6469.2	6716.4	6716.4	6907.0
17.5°	5833.6	5890.1	5921.8	6034.8	6204.3	6448.0	6727.0	7002.4	7002.4	7224.9
20°	6133.7	6200.8	6211.4	6303.2	6469.2	6730.5	7062.4	7404.9	7404.9	7659.2
22.5°	6755.2	6850.5	6765.8	6811.7	6960.0	7221.3	7581.5	8019.4	8019.4	8308.9
25°	7849.9	7984.1	7765.1	7687.4	7751.0	8022.9	8474.9	9022.2	9022.2	9255.3
27.5°	10000.4	9827.4	9495.4	9170.6	8979.9	9135.2	9643.7	10321.7	10321.7	10547.7
30°	12362.8	12210.9	11762.5	11042.1	10590.1	10565.4	11035.0	11794.2	11794.2	12009.6
32.5°	14728.7	14583.9	14096.6	13210.3	12426.3	12037.9	12362.8	13157.3	13157.3	13295.0
35°	17055.7	16907.4	16420.1	15512.6	14548.6	13665.8	13602.2	14463.8	14463.8	14608.6
37.5°	19396.9	19273.3	18754.3	17864.4	16914.5	15696.2	15106.5	15731.5	15731.5	15872.8
40°	21067.2	21120.2	20763.5	20074.9	19259.2	17928.0	16794.4	16953.3	16953.3	17189.9
42.5°	22500.9	22606.8	22296.1	21950.0	21476.8	20304.5	18884.9	18669.5	18669.5	18796.6
45°	23740.3	23828.6	23549.6	23468.4	23457.8	22635.1	21169.6	20657.6	20657.6	20632.9
47.5°	24195.9	24365.3	24485.4	24757.3	25287.0	24940.9	23532.0	22839.9	22839.9	22645.7
50°	24368.9	24549.0	24958.6	25749.6	27003.2	27151.5	25883.8	25078.7	25078.7	24725.5
52.5°	24135.8	24457.2	25008.0	26339.3	28157.9	28924.1	28140.2	27349.2	27349.2	26773.6
55°	22762.2	23083.5	24210.0	26332.2	28733.5	30167.1	30273.1	29669.2	29669.2	28761.7
57.5°	19866.6	20343.3	22126.6	25435.3	28722.9	31237.1	32363.5	32031.6	32031.6	30732.1
60°	15855.1	16501.3	18676.6	23447.2	27836.5	31816.2	34196.2	34372.8	34372.8	32674.3
62.5°	11063.3	11811.9	13870.6	20332.7	25809.6	31399.5	35534.6	36399.7	36399.7	34411.6
65°	6748.1	6988.3	8647.9	15999.9	22363.2	29655.1	35947.7	37805.1	37681.5	35474.5
67.5°	4495.2	4696.5	5173.2	10971.5	17359.4	26169.8	34959.0	37625.0	37660.4	35301.5
70°	2708.4	2881.5	3192.2	6380.9	11250.4	20714.1	31897.4	35329.8	35534.6	32988.6
72.5°	1115.9	1232.4	1514.9	2892.1	5826.5	13146.7	25400.0	30333.1	30809.8	27737.7
75°	632.1	692.1	889.9	1451.3	2528.3	6126.6	15385.5	21533.3	22236.0	19118.0
77.5°	420.2	448.5	575.6	939.3	1423.1	2090.5	6575.1	11218.7	12560.5	10441.8
80°	282.5	307.2	395.5	628.6	925.2	896.9	2094.0	4156.2	5113.2	3587.7
82.5°	190.7	194.2	282.5	413.2	586.2	434.3	618.0	1292.4	1624.4	1038.2
85°	109.5	105.9	208.3	240.1	261.3	180.1	187.2	388.4	508.5	437.9
87.5°	14.1	21.2	81.2	63.6	35.3	38.8	38.8	67.1	98.9	105.9
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°
6126.6	0°	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6	6126.6
6133.7	2.5°	6133.7	6130.2	6119.6	6109.0	6084.3	6070.2	6077.2	6070.2	6066.6	6070.2
6179.6	5°	6179.6	6169.0	6140.8	6105.5	6056.0	5996.0	5957.2	5900.7	5847.7	5815.9
6303.2	7.5°	6303.2	6292.6	6253.8	6154.9	5996.0	5745.3	5515.8	5314.5	5162.6	5074.3
6501.0	10°	6501.0	6483.3	6423.3	6204.3	5787.7	5240.3	4784.8	4407.0	4159.8	4043.2
6734.0	12.5°	6734.0	6712.8	6606.9	6158.4	5392.2	4537.6	3909.0	3488.8	3259.3	3156.9
7002.4	15°	7009.5	6981.2	6772.9	5939.5	4816.6	3760.7	3185.2	2870.9	2722.6	2630.8
7344.9	17.5°	7352.0	7302.5	6896.5	5611.1	4191.5	3167.5	2740.2	2503.6	2373.0	2284.7
7793.4	20°	7796.9	7715.7	6995.3	5219.1	3616.0	2793.2	2440.1	2242.3	2143.4	2065.8
8429.0	22.5°	8418.4	8301.9	7115.4	4795.4	3209.9	2535.4	2217.6	2072.8	1991.6	1903.3
9315.3	25°	9188.2	9050.5	7263.7	4403.4	2930.9	2312.9	2055.2	1935.1	1839.8	1737.4
10477.1	27.5°	10265.2	10018.0	7440.3	4082.1	2690.8	2122.3	1906.9	1772.7	1663.2	1578.5
11794.2	30°	11465.8	11059.7	7595.6	3887.9	2471.8	1945.7	1712.6	1578.5	1476.0	1416.0
12977.2	32.5°	12602.9	12052.0	7698.0	3803.1	2274.1	1744.4	1500.8	1356.0	1278.3	1260.6
14135.4	35°	13676.4	12948.9	7687.4	3721.9	2097.5	1543.1	1292.4	1144.1	1084.1	1094.7
15382.0	37.5°	14912.3	13905.9	7613.3	3594.8	1952.8	1359.5	1112.3	981.7	928.7	932.2
16896.8	40°	16349.5	15011.2	7567.4	3354.6	1793.9	1190.0	964.0	858.1	819.2	805.1
18492.9	42.5°	17882.0	16081.1	7574.4	3082.7	1596.1	1038.2	861.6	773.3	738.0	727.4
20269.1	45°	19421.7	17101.7	7585.0	2800.2	1387.8	921.6	787.5	713.3	692.1	678.0
22070.1	47.5°	20869.5	17970.3	7387.3	2496.6	1183.0	833.4	727.4	678.0	660.3	642.7
23878.0	50°	22218.4	18549.4	6910.6	2143.4	1020.5	762.7	681.5	646.2	628.6	610.9
25516.5	52.5°	23267.1	18641.3	6123.1	1779.7	907.5	709.8	653.3	621.5	600.3	582.6
26840.7	55°	23733.3	18065.7	5003.7	1440.7	819.2	663.9	625.0	593.2	568.5	550.9
27882.4	57.5°	23613.2	16854.5	3902.0	1158.2	734.5	618.0	589.7	568.5	540.3	512.0
28726.4	60°	23023.5	15233.6	2941.5	964.0	656.8	568.5	550.9	533.2	494.4	452.0
29051.3	62.5°	22003.0	13196.1	2097.5	798.1	572.1	512.0	505.0	490.8	434.3	356.7
28571.0	65°	20442.2	10720.8	1412.5	663.9	490.8	448.5	452.0	427.3	353.1	264.8
26812.5	67.5°	18161.0	7839.3	904.0	543.8	409.6	374.3	377.8	363.7	300.2	226.0
23479.0	70°	15254.8	5190.9	589.7	413.2	328.4	289.6	310.7	314.3	254.2	183.6
18019.8	72.5°	11183.3	3065.1	413.2	307.2	240.1	201.3	254.2	261.3	204.8	137.7
10840.8	75°	6373.8	1454.9	310.7	222.5	148.3	141.2	197.7	197.7	141.2	91.8
4693.0	77.5°	2676.7	607.4	218.9	144.8	84.7	81.2	134.2	123.6	70.6	42.4
1144.1	80°	773.3	271.9	116.5	70.6	35.3	31.8	53.0	38.8	17.7	7.1
434.3	82.5°	303.7	120.1	45.9	28.2	14.1	14.1	7.1	0.0	0.0	0.0
247.2	85°	180.1	49.4	21.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0
53.0	87.5°	45.9	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
6126.6
6084.3
5823.0
5077.9
4032.6
3146.3
2634.3
2277.6
2051.6
1889.2
1726.8
1560.8
1405.4
1271.2
1094.7
946.4
801.6
723.9
678.0
642.7
610.9
579.1
547.3
508.5
444.9
349.6
257.8
215.4
176.6
130.7
84.7
42.4
7.1
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