

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: P943396

Luminaire Tested: **GALN-SB7D-835-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943396  
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-SB7D-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

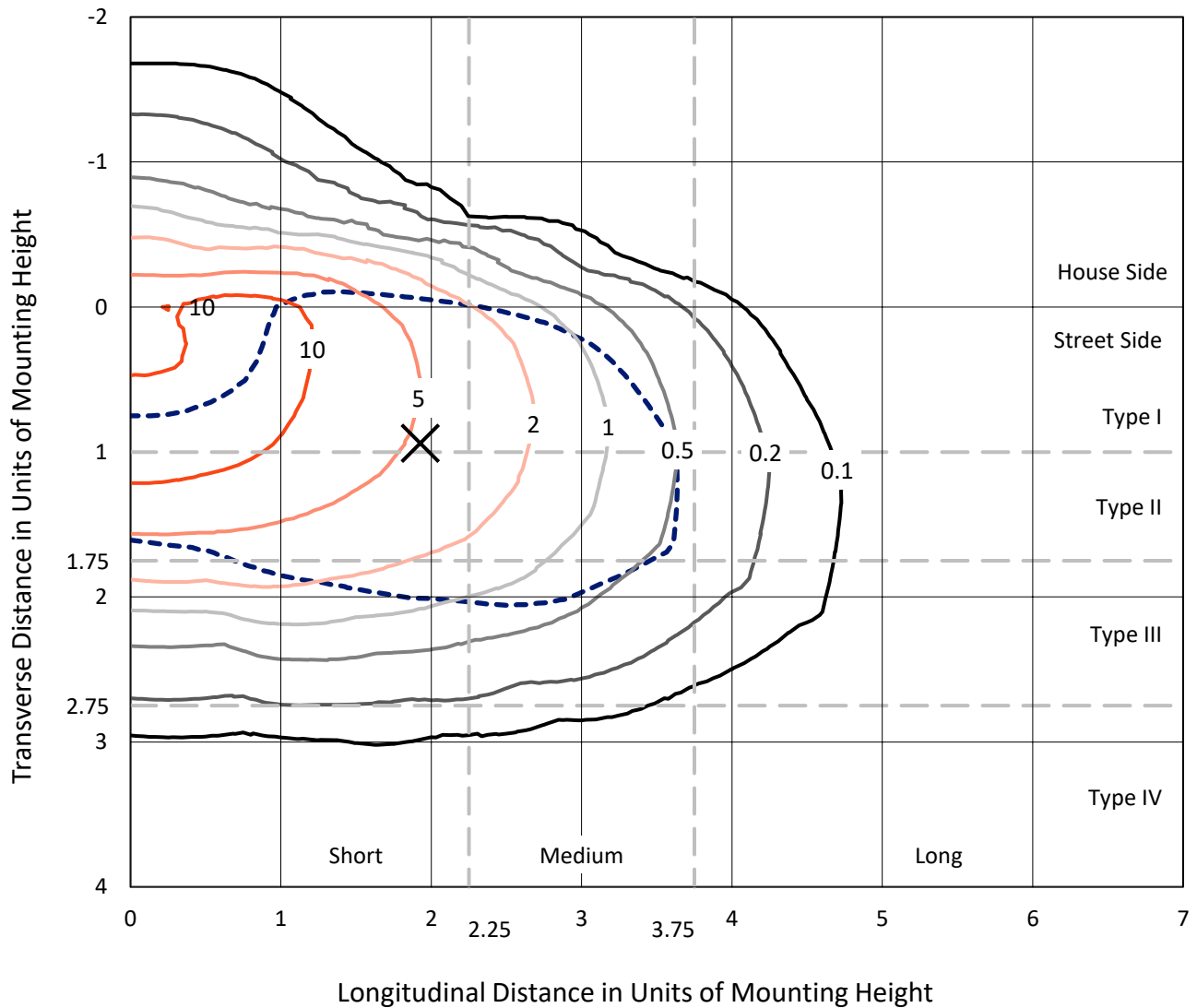
Lumens per Lamp: N/A  
Luminaire Lumens: 52644 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

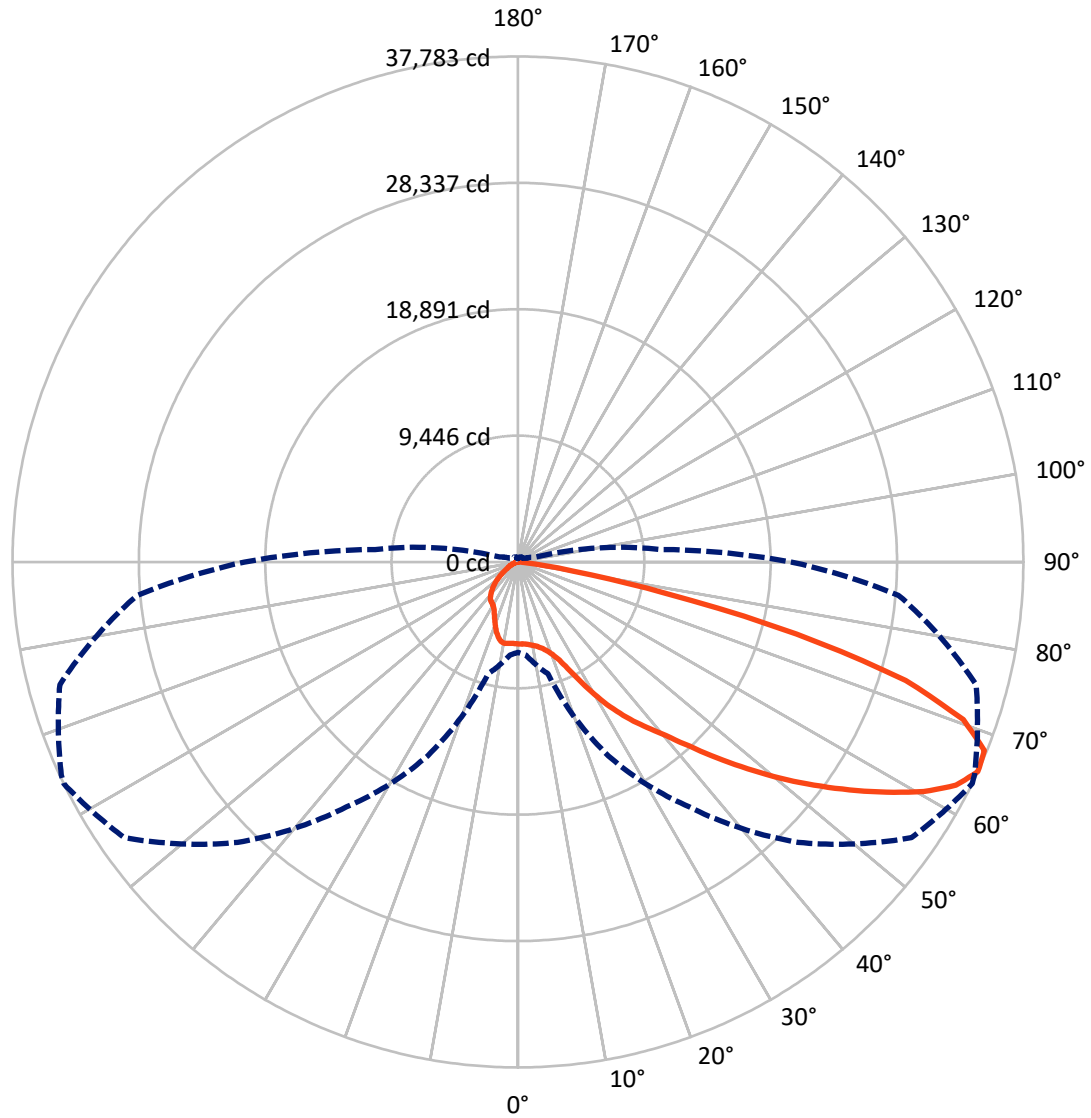
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	7040.1	0.0	7040.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	45603.9	0.0	45603.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	52644.0	0.0	52644.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.9	1.1
10°-20°	1532.2	2.9
20°-30°	2903.4	5.5
30°-40°	5875.1	11.2
40°-50°	10008.3	19.0
50°-60°	13610.5	25.9
60°-70°	12780.9	24.3
70°-80°	5120.6	9.7
80°-90°	248.1	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°	52644.0	100.0
0°-180°	52644.0	100.0



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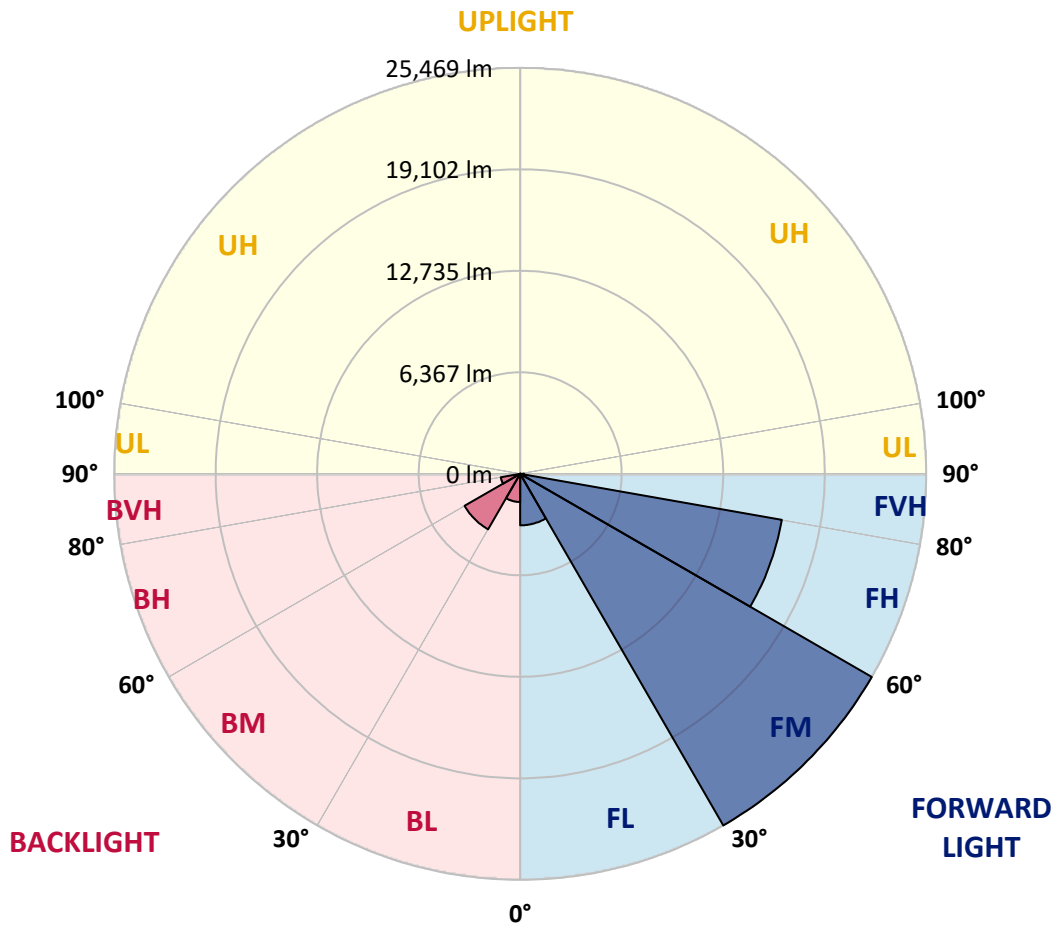
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3232.9	6.1			
FM (30°-60°)	25469.1	48.4			
FH (60°-80°)	16665.9	31.7			G5
FVH (80°-90°)	236.0	0.4			G3/500
BL (0°-30°)	1767.6	3.4	B3/2500		
BM (30°-60°)	4024.8	7.6	B3/5000		
BH (60°-80°)	1235.7	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°	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0
2.5°	6101.9	6144.2	6133.6	6123.0	6119.5	6126.6	6130.1	6126.6	6126.6	6126.6
5°	5985.4	6020.7	6020.7	6045.4	6080.7	6123.0	6154.8	6161.9	6168.9	6179.5
7.5°	5763.1	5791.3	5812.5	5893.7	5981.9	6094.8	6190.1	6239.5	6246.6	6285.4
10°	5611.3	5646.6	5681.9	5766.6	5893.7	6063.0	6225.4	6345.4	6363.0	6454.8
12.5°	5604.3	5639.6	5685.4	5777.2	5925.4	6105.4	6303.0	6476.0	6507.7	6641.8
15°	5678.4	5720.7	5763.1	5876.0	6034.8	6253.6	6465.4	6680.6	6712.4	6903.0
17.5°	5830.1	5886.6	5918.4	6031.3	6200.7	6444.2	6723.0	6970.0	6998.3	7220.6
20°	6130.1	6197.2	6207.7	6299.5	6465.4	6726.5	7058.3	7365.3	7400.6	7654.7
22.5°	6751.2	6846.5	6761.8	6807.7	6955.9	7217.1	7577.0	7965.3	8014.7	8304.0
25°	7845.3	7979.4	7760.6	7682.9	7746.4	8018.2	8469.9	8960.5	9016.9	9249.9
27.5°	9994.5	9821.6	9489.8	9165.2	8974.6	9129.9	9638.1	10245.1	10315.7	10541.5
30°	12355.5	12203.7	11755.5	11035.6	10583.9	10559.2	11028.5	11706.1	11787.3	12002.6
32.5°	14720.0	14575.3	14088.3	13202.5	12419.0	12030.8	12355.5	13107.2	13149.5	13287.2
35°	17045.7	16897.5	16410.5	15503.5	14540.0	13657.7	13594.2	14441.2	14455.3	14600.0
37.5°	19385.5	19262.0	18743.2	17853.9	16904.5	15687.0	15097.6	15704.6	15722.3	15863.4
40°	21054.8	21107.7	20751.3	20063.1	19247.9	17917.4	16784.6	17049.2	16943.4	17179.8
42.5°	22487.6	22593.5	22282.9	21937.1	21464.2	20292.5	18873.8	18827.9	18658.5	18785.6
45°	23726.4	23814.6	23535.8	23454.6	23444.0	22621.7	21157.1	20881.9	20645.4	20620.7
47.5°	24181.6	24351.0	24471.0	24742.7	25272.1	24926.3	23518.1	23091.1	22826.4	22632.3
50°	24354.5	24534.5	24943.9	25734.4	26987.3	27135.5	25868.5	25388.6	25063.9	24711.0
52.5°	24121.6	24442.8	24993.3	26323.8	28141.3	28907.1	28123.7	27703.7	27333.1	26757.9
55°	22748.8	23069.9	24195.7	26316.7	28716.5	30149.4	30255.2	30068.2	29651.8	28744.8
57.5°	19854.9	20331.3	22113.5	25420.3	28706.0	31218.7	32344.5	32478.6	32012.8	30714.0
60°	15845.8	16491.6	18665.6	23433.4	27820.1	31797.5	34176.1	34846.6	34352.6	32655.1
62.5°	11056.8	11804.9	13862.4	20320.7	25794.4	31381.0	35513.7	36752.4	36378.3	34391.4
65°	6744.2	6984.2	8642.8	15990.5	22350.0	29637.6	35926.6	37782.9	37659.4	35453.7
67.5°	4492.6	4693.7	5170.2	10965.0	17349.2	26154.4	34938.4	37602.9	37638.2	35280.7
70°	2706.8	2879.8	3190.3	6377.1	11243.8	20701.9	31878.6	35309.0	35513.7	32969.2
72.5°	1115.2	1231.7	1514.0	2890.4	5823.1	13139.0	25385.0	30315.2	30791.7	27721.3
75°	631.7	691.7	889.3	1450.5	2526.9	6123.0	15376.4	21520.6	22222.9	19106.7
77.5°	420.0	448.2	575.2	938.7	1422.2	2089.2	6571.2	11212.1	12553.1	10435.6
80°	282.3	307.0	395.3	628.2	924.6	896.4	2092.8	4153.8	5110.2	3585.6
82.5°	190.6	194.1	282.3	412.9	585.8	434.1	617.6	1291.7	1623.4	1037.6
85°	109.4	105.9	208.2	240.0	261.2	180.0	187.0	388.2	508.2	437.6
87.5°	14.1	21.2	81.2	63.5	35.3	38.8	38.8	67.1	98.8	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°
6123.0	0°	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0
6130.1	2.5°	6130.1	6126.6	6116.0	6105.4	6080.7	6066.6	6073.6	6066.6	6063.0	6066.6
6176.0	5°	6176.0	6165.4	6137.2	6101.9	6052.5	5992.5	5953.6	5897.2	5844.2	5812.5
6299.5	7.5°	6299.5	6288.9	6250.1	6151.3	5992.5	5741.9	5512.5	5311.3	5159.6	5071.4
6497.1	10°	6497.1	6479.5	6419.5	6200.7	5784.2	5237.2	4782.0	4404.4	4157.3	4040.9
6730.1	12.5°	6730.1	6708.9	6603.0	6154.8	5389.0	4534.9	3906.7	3486.8	3257.4	3155.0
6998.3	15°	7005.3	6977.1	6768.9	5936.0	4813.7	3758.5	3183.3	2869.2	2721.0	2629.2
7340.6	17.5°	7347.7	7298.2	6892.4	5607.8	4189.1	3165.6	2738.6	2502.2	2371.6	2283.3
7788.8	20°	7792.3	7711.2	6991.2	5216.1	3613.8	2791.5	2438.6	2241.0	2142.2	2064.5
8424.0	22.5°	8413.5	8297.0	7111.2	4792.6	3208.0	2533.9	2216.3	2071.6	1990.4	1902.2
9309.8	25°	9182.8	9045.2	7259.4	4400.8	2929.2	2311.6	2054.0	1934.0	1838.7	1736.3
10470.9	27.5°	10259.2	10012.1	7435.9	4079.7	2689.2	2121.0	1905.7	1771.6	1662.2	1577.5
11787.3	30°	11459.1	11053.2	7591.2	3885.6	2470.4	1944.6	1711.6	1577.5	1475.2	1415.2
12969.6	32.5°	12595.5	12044.9	7693.5	3800.9	2272.8	1743.4	1499.9	1355.2	1277.5	1259.9
14127.1	35°	13668.3	12941.3	7682.9	3719.7	2096.3	1542.2	1291.7	1143.4	1083.4	1094.0
15372.9	37.5°	14903.5	13897.7	7608.8	3592.7	1951.6	1358.7	1111.7	981.1	928.2	931.7
16886.9	40°	16339.9	15002.3	7562.9	3352.7	1792.8	1189.3	963.5	857.6	818.8	804.6
18482.1	42.5°	17871.5	16071.7	7570.0	3080.9	1595.2	1037.6	861.1	772.9	737.6	727.0
20257.2	45°	19410.2	17091.6	7580.6	2798.6	1386.9	921.1	787.0	712.9	691.7	677.6
22057.1	47.5°	20857.2	17959.8	7382.9	2495.1	1182.3	832.9	727.0	677.6	659.9	642.3
23864.0	50°	22205.3	18538.5	6906.5	2142.2	1019.9	762.3	681.1	645.8	628.2	610.5
25501.5	52.5°	23253.5	18630.3	6119.5	1778.7	907.0	709.4	652.9	621.1	600.0	582.3
26824.9	55°	23719.3	18055.0	5000.8	1439.9	818.8	663.5	624.7	592.9	568.2	550.5
27866.0	57.5°	23599.3	16844.5	3899.7	1157.6	734.1	617.6	589.4	568.2	540.0	511.7
28709.5	60°	23009.9	15224.7	2939.8	963.5	656.4	568.2	550.5	532.9	494.1	451.7
29034.2	62.5°	21990.0	13188.4	2096.3	797.6	571.7	511.7	504.7	490.5	434.1	356.4
28554.2	65°	20430.1	10714.4	1411.7	663.5	490.5	448.2	451.7	427.0	352.9	264.7
26796.7	67.5°	18150.3	7834.7	903.5	543.5	409.4	374.1	377.6	363.5	300.0	225.9
23465.2	70°	15245.8	5187.8	589.4	412.9	328.2	289.4	310.6	314.1	254.1	183.5
18009.2	72.5°	11176.8	3063.3	412.9	307.0	240.0	201.2	254.1	261.2	204.7	137.6
10834.4	75°	6370.1	1454.0	310.6	222.3	148.2	141.2	197.6	197.6	141.2	91.8
4690.2	77.5°	2675.1	607.0	218.8	144.7	84.7	81.2	134.1	123.5	70.6	42.3
1143.4	80°	772.9	271.7	116.5	70.6	35.3	31.8	52.9	38.8	17.6	7.1
434.1	82.5°	303.5	120.0	45.9	28.2	14.1	14.1	7.1	0.0	0.0	0.0
247.0	85°	180.0	49.4	21.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0
52.9	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>
6123.0
6080.7
5819.5
5074.9
4030.3
3144.5
2632.7
2276.3
2050.4
1888.1
1725.7
1559.9
1404.6
1270.5
1094.0
945.8
801.1
723.5
677.6
642.3
610.5
578.8
547.0
508.2
444.7
349.4
257.6
215.3
176.5
130.6
84.7
42.3
7.1
0.0
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0.0

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