

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: P944066

Luminaire Tested: **GALN-SB8D-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944066  
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-SB8D-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

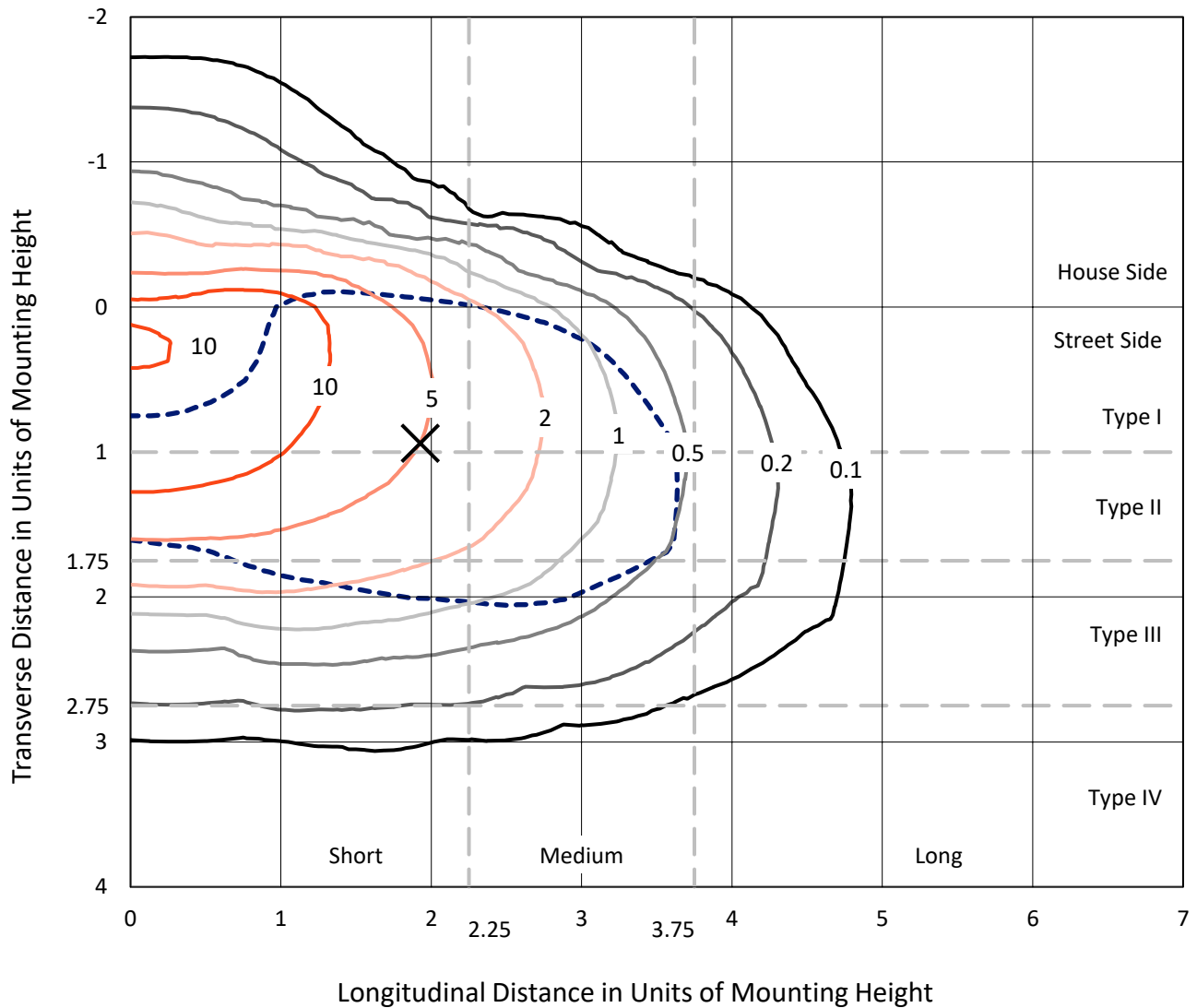
Lumens per Lamp: N/A  
Luminaire Lumens: 57987 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

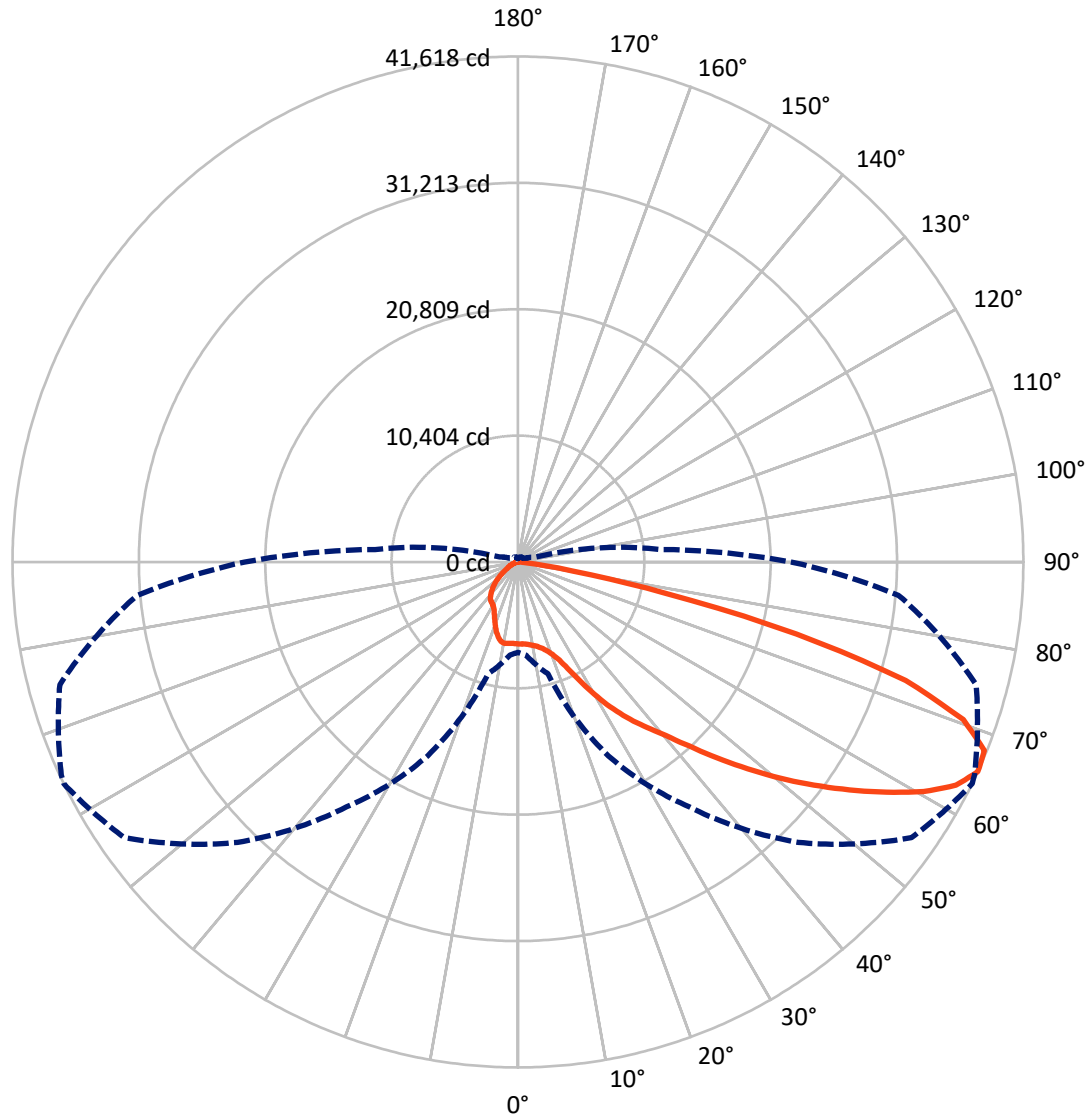
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	7754.6	0.0	7754.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	50232.4	0.0	50232.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	57987.0	0.0	57987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.3	1.1
10°-20°	1687.7	2.9
20°-30°	3198.1	5.5
30°-40°	6471.4	11.2
40°-50°	11024.1	19.0
50°-60°	14991.9	25.9
60°-70°	14078.1	24.3
70°-80°	5640.3	9.7
80°-90°	273.3	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°	57987.0	100.0
0°-180°	57987.0	100.0

**Coefficient of Utilization**



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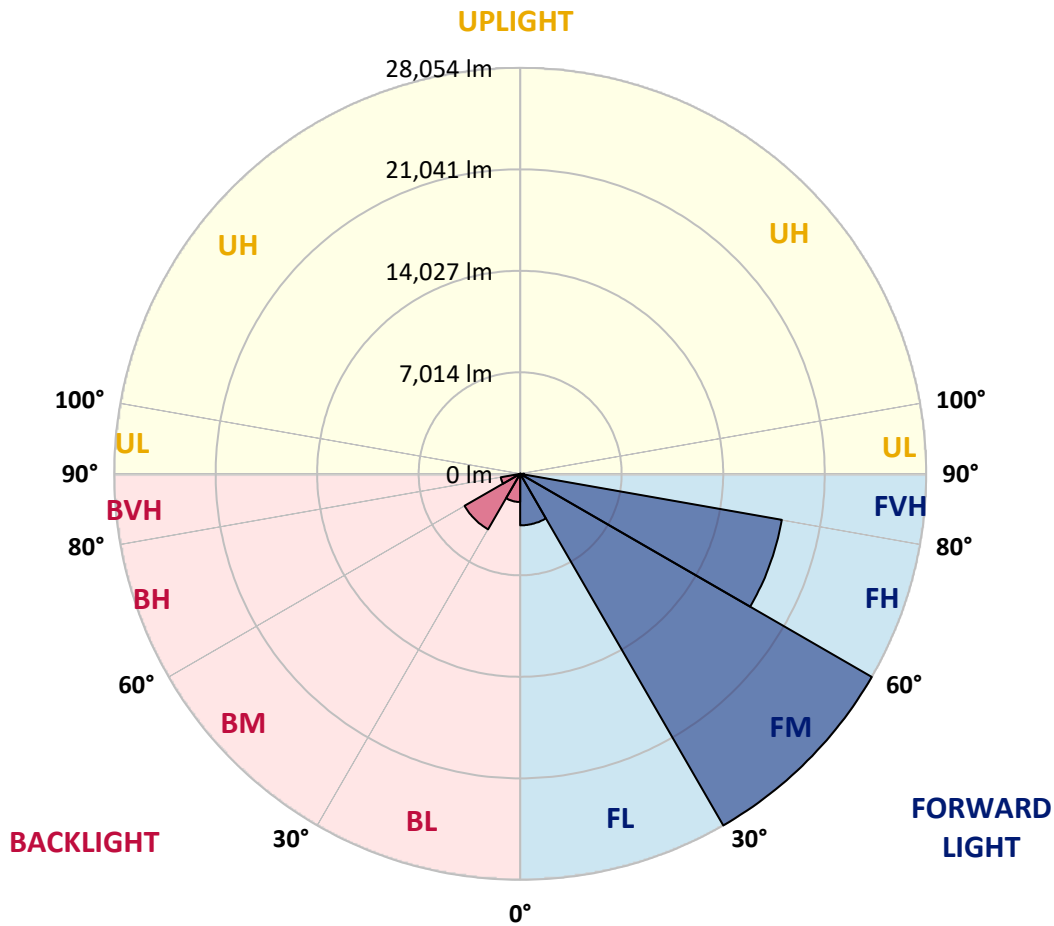
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3561.1	6.1			
FM (30°-60°)	28054.0	48.4			
FH (60°-80°)	18357.4	31.7			G5
FVH (80°-90°)	259.9	0.4			G3/500
BL (0°-30°)	1947.0	3.4	B3/2500		
BM (30°-60°)	4433.3	7.6	B3/5000		
BH (60°-80°)	1361.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	13.3	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°	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5
2.5°	6721.2	6767.8	6756.2	6744.5	6740.6	6748.4	6752.3	6748.4	6748.4	6748.4
5°	6592.9	6631.8	6631.8	6659.0	6697.8	6744.5	6779.5	6787.3	6795.0	6806.7
7.5°	6348.0	6379.1	6402.4	6491.8	6589.0	6713.4	6818.3	6872.8	6880.5	6923.3
10°	6180.8	6219.7	6258.6	6351.9	6491.8	6678.4	6857.2	6989.4	7008.8	7109.9
12.5°	6173.1	6211.9	6262.5	6363.5	6526.8	6725.1	6942.7	7133.2	7168.2	7315.9
15°	6254.7	6301.3	6348.0	6472.4	6647.3	6888.3	7121.6	7358.7	7393.7	7603.6
17.5°	6421.8	6484.0	6519.0	6643.4	6830.0	7098.2	7405.3	7677.4	7708.5	7953.4
20°	6752.3	6826.1	6837.8	6938.9	7121.6	7409.2	7774.6	8112.8	8151.7	8431.6
22.5°	7436.4	7541.4	7448.1	7498.6	7661.9	7949.6	8346.1	8773.7	8828.1	9146.9
25°	8641.5	8789.2	8548.2	8462.7	8532.7	8832.0	9329.6	9869.9	9932.1	10188.7
27.5°	11008.9	10818.4	10453.0	10095.4	9885.4	10056.5	10616.3	11284.9	11362.6	11611.4
30°	13609.5	13442.3	12948.6	12155.6	11658.1	11630.8	12147.9	12894.2	12983.6	13220.8
32.5°	16214.0	16054.6	15518.2	14542.4	13679.5	13251.9	13609.5	14437.5	14484.1	14635.7
35°	18775.7	18612.5	18076.0	17077.0	16015.7	15043.9	14973.9	15906.9	15922.4	16081.8
37.5°	21353.0	21217.0	20645.5	19665.9	18620.2	17279.1	16629.9	17298.5	17318.0	17473.5
40°	23191.7	23250.0	22857.4	22099.4	21201.4	19735.9	18488.1	18779.6	18663.0	18923.4
42.5°	24770.0	24886.6	24544.5	24163.5	23642.6	22352.1	20789.4	20738.8	20552.2	20692.2
45°	26134.4	26231.6	25924.5	25835.1	25823.4	24917.7	23304.4	23001.2	22740.8	22713.6
47.5°	26635.9	26822.5	26954.6	27254.0	27837.1	27456.1	25905.1	25434.7	25143.1	24929.3
50°	26826.4	27024.6	27475.5	28346.3	29726.3	29889.6	28494.0	27965.3	27607.7	27219.0
52.5°	26569.8	26923.5	27530.0	28995.5	30997.4	31841.0	30978.0	30515.4	30107.2	29473.6
55°	25057.6	25411.4	26651.4	28987.7	31631.1	33209.3	33325.9	33119.9	32661.2	31662.2
57.5°	21870.0	22394.8	24357.9	28000.3	31619.4	34387.2	35627.2	35775.0	35261.8	33831.3
60°	17454.0	18165.4	20560.0	25811.8	30643.7	35024.7	37644.8	38383.3	37839.1	35969.3
62.5°	12179.0	13003.1	15269.4	22383.2	28412.4	34566.0	39118.0	40482.5	40070.4	37881.9
65°	7428.7	7693.0	9520.0	17613.4	24618.4	32645.7	39572.9	41617.6	41481.5	39052.0
67.5°	4948.6	5170.1	5694.9	12077.9	19110.0	28808.9	38484.4	41419.3	41458.2	38861.5
70°	2981.6	3172.0	3514.1	7024.4	12385.0	22803.0	35114.1	38892.6	39118.0	36315.3
72.5°	1228.4	1356.7	1667.7	3183.7	6414.1	14472.5	27961.5	33392.0	33916.8	30534.9
75°	695.8	761.9	979.6	1597.7	2783.3	6744.5	16937.0	23704.8	24478.4	21045.9
77.5°	462.6	493.7	633.6	1034.0	1566.6	2301.3	7238.2	12350.0	13827.2	11494.8
80°	311.0	338.2	435.4	691.9	1018.5	987.4	2305.2	4575.4	5628.8	3949.5
82.5°	209.9	213.8	311.0	454.8	645.3	478.1	680.3	1422.8	1788.2	1142.9
85°	120.5	116.6	229.4	264.3	287.7	198.3	206.0	427.6	559.8	482.0
87.5°	15.5	23.3	89.4	70.0	38.9	42.8	42.8	73.9	108.8	116.6
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°
6744.5	0°	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5	6744.5
6752.3	2.5°	6752.3	6748.4	6736.7	6725.1	6697.8	6682.3	6690.1	6682.3	6678.4	6682.3
6802.8	5°	6802.8	6791.1	6760.0	6721.2	6666.7	6600.7	6557.9	6495.7	6437.4	6402.4
6938.9	7.5°	6938.9	6927.2	6884.4	6775.6	6600.7	6324.7	6072.0	5850.4	5683.3	5586.1
7156.5	10°	7156.5	7137.1	7071.0	6830.0	6371.3	5768.8	5267.3	4851.4	4579.3	4451.0
7413.1	12.5°	7413.1	7389.8	7273.2	6779.5	5935.9	4995.2	4303.3	3840.7	3588.0	3475.3
7708.5	15°	7716.3	7685.2	7455.9	6538.5	5302.3	4140.0	3506.4	3160.4	2997.1	2896.0
8085.6	17.5°	8093.4	8039.0	7591.9	6176.9	4614.2	3486.9	3016.6	2756.1	2612.3	2515.1
8579.3	20°	8583.2	8493.8	7700.8	5745.5	3980.6	3074.9	2686.1	2468.4	2359.6	2274.1
9279.0	22.5°	9267.4	9139.1	7832.9	5279.0	3533.6	2791.1	2441.2	2281.9	2192.4	2095.3
10254.7	25°	10114.8	9963.2	7996.2	4847.5	3226.5	2546.2	2262.4	2130.2	2025.3	1912.6
11533.7	27.5°	11300.4	11028.3	8190.6	4493.7	2962.1	2336.3	2099.1	1951.4	1830.9	1737.6
12983.6	30°	12622.1	12175.1	8361.6	4279.9	2721.1	2141.9	1885.3	1737.6	1624.9	1558.8
14285.9	32.5°	13873.8	13267.4	8474.3	4186.6	2503.4	1920.3	1652.1	1492.7	1407.2	1387.8
15560.9	35°	15055.6	14254.8	8462.7	4097.2	2309.1	1698.8	1422.8	1259.5	1193.4	1205.1
16933.1	37.5°	16416.1	15308.2	8381.0	3957.3	2149.7	1496.6	1224.5	1080.7	1022.4	1026.3
18600.8	40°	17998.3	16525.0	8330.5	3692.9	1974.8	1310.0	1061.2	944.6	901.9	886.3
20357.9	42.5°	19685.4	17702.8	8338.3	3393.6	1757.1	1142.9	948.5	851.3	812.4	800.8
22313.2	45°	21380.2	18826.3	8350.0	3082.6	1527.7	1014.6	866.9	785.2	761.9	746.4
24295.7	47.5°	22974.0	19782.5	8132.3	2748.3	1302.3	917.4	800.8	746.4	726.9	707.5
26286.0	50°	24459.0	20420.1	7607.5	2359.6	1123.4	839.7	750.3	711.4	691.9	672.5
28089.7	52.5°	25613.5	20521.1	6740.6	1959.2	999.0	781.4	719.2	684.2	660.8	641.4
29547.5	55°	26126.6	19887.5	5508.3	1586.0	901.9	730.8	688.1	653.1	625.9	606.4
30694.2	57.5°	25994.5	18554.2	4295.5	1275.0	808.6	680.3	649.2	625.9	594.8	563.7
31623.3	60°	25345.3	16769.9	3238.1	1061.2	723.0	625.9	606.4	587.0	544.2	497.6
31980.9	62.5°	24221.9	14526.9	2309.1	878.5	629.7	563.7	555.9	540.3	478.1	392.6
31452.3	65°	22503.7	11801.9	1554.9	730.8	540.3	493.7	497.6	470.4	388.7	291.5
29516.4	67.5°	19992.5	8629.8	995.2	598.6	450.9	412.1	415.9	400.4	330.4	248.8
25846.8	70°	16793.2	5714.4	649.2	454.8	361.5	318.8	342.1	346.0	279.9	202.1
19837.0	72.5°	12311.1	3374.2	454.8	338.2	264.3	221.6	279.9	287.7	225.5	151.6
11934.1	75°	7016.6	1601.6	342.1	244.9	163.3	155.5	217.7	217.7	155.5	101.1
5166.2	77.5°	2946.6	668.6	241.0	159.4	93.3	89.4	147.7	136.1	77.7	46.6
1259.5	80°	851.3	299.3	128.3	77.7	38.9	35.0	58.3	42.8	19.4	7.8
478.1	82.5°	334.3	132.2	50.5	31.1	15.5	15.5	7.8	0.0	0.0	0.0
272.1	85°	198.3	54.4	23.3	11.7	3.9	0.0	0.0	0.0	0.0	0.0
58.3	87.5°	50.5	11.7	7.8	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>
6744.5
6697.8
6410.2
5590.0
4439.3
3463.6
2899.9
2507.3
2258.5
2079.7
1900.9
1718.2
1547.2
1399.4
1205.1
1041.8
882.4
796.9
746.4
707.5
672.5
637.5
602.5
559.8
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