

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: P955070

Luminaire Tested: **GALN-SB8A-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955070  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

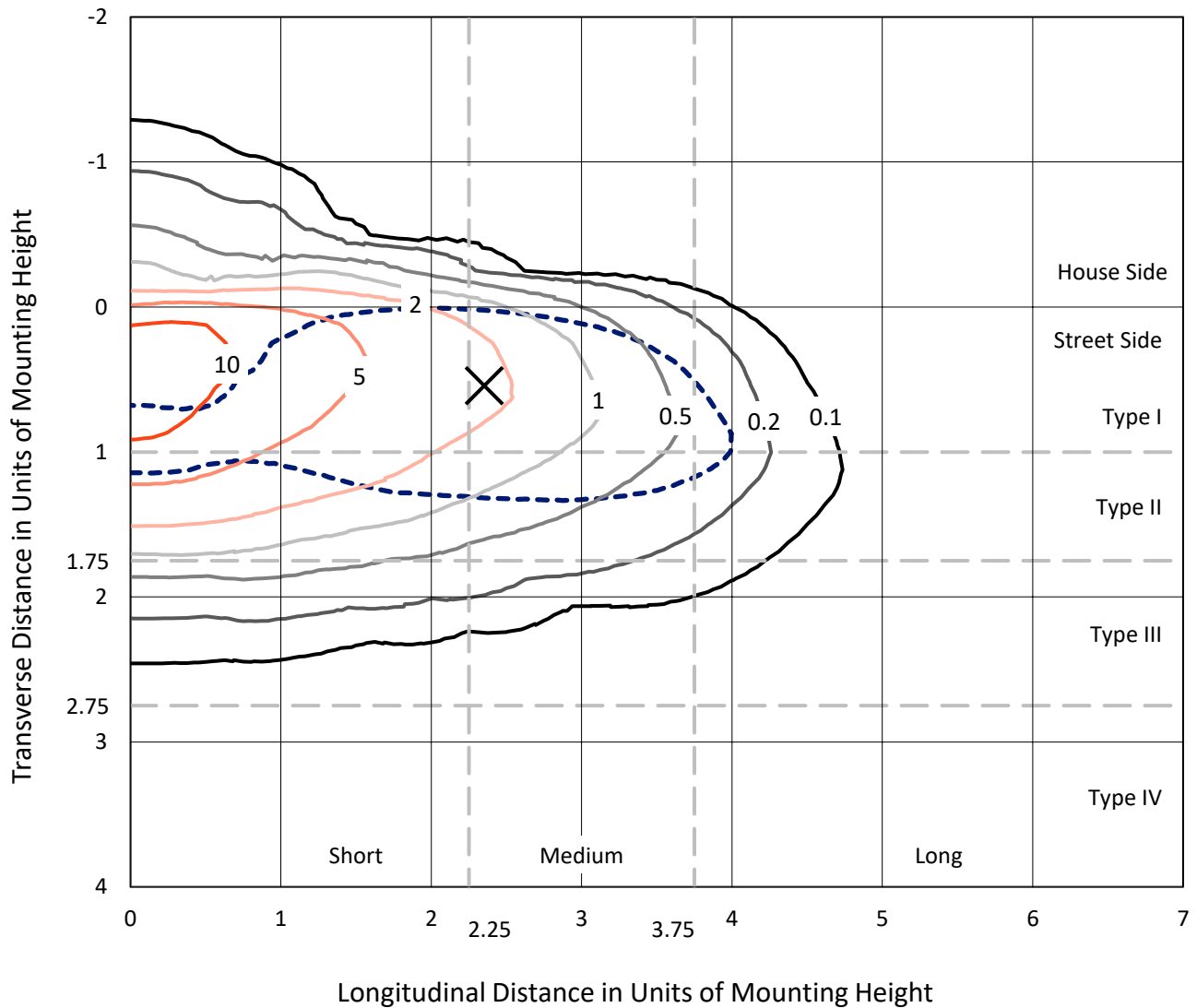
Lumens per Lamp: N/A  
Luminaire Lumens: 29376 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

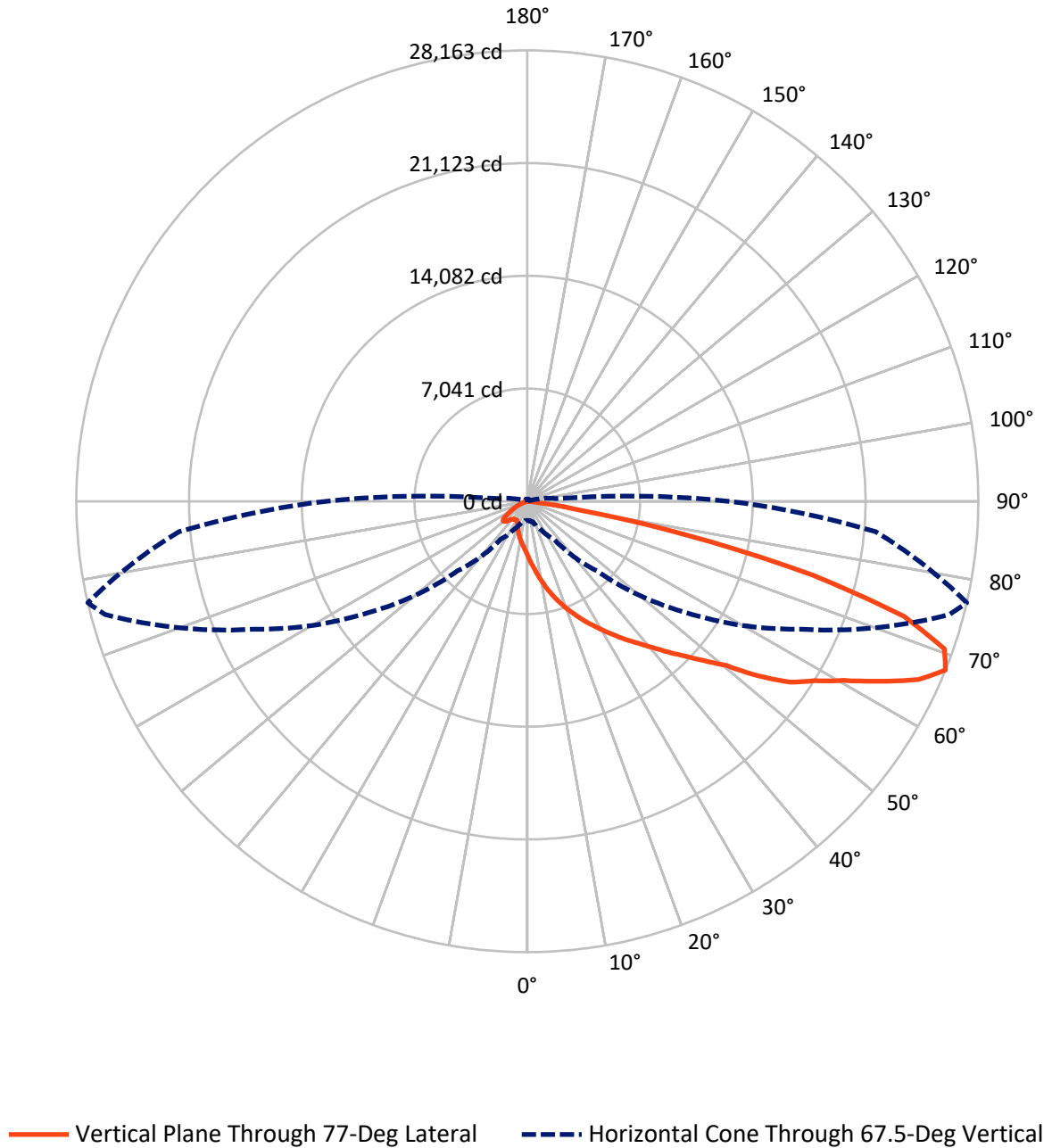
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2161.2	0.0	2161.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	27214.8	0.0	27214.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	29376.0	0.0	29376.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.7	1.2
10°-20°	1210.8	4.1
20°-30°	2336.5	8.0
30°-40°	4056.2	13.8
40°-50°	5889.4	20.0
50°-60°	6763.2	23.0
60°-70°	5871.8	20.0
70°-80°	2765.7	9.4
80°-90°	136.8	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°	29376.0	100.0
0°-180°	29376.0	100.0

**Coefficient of Utilization**



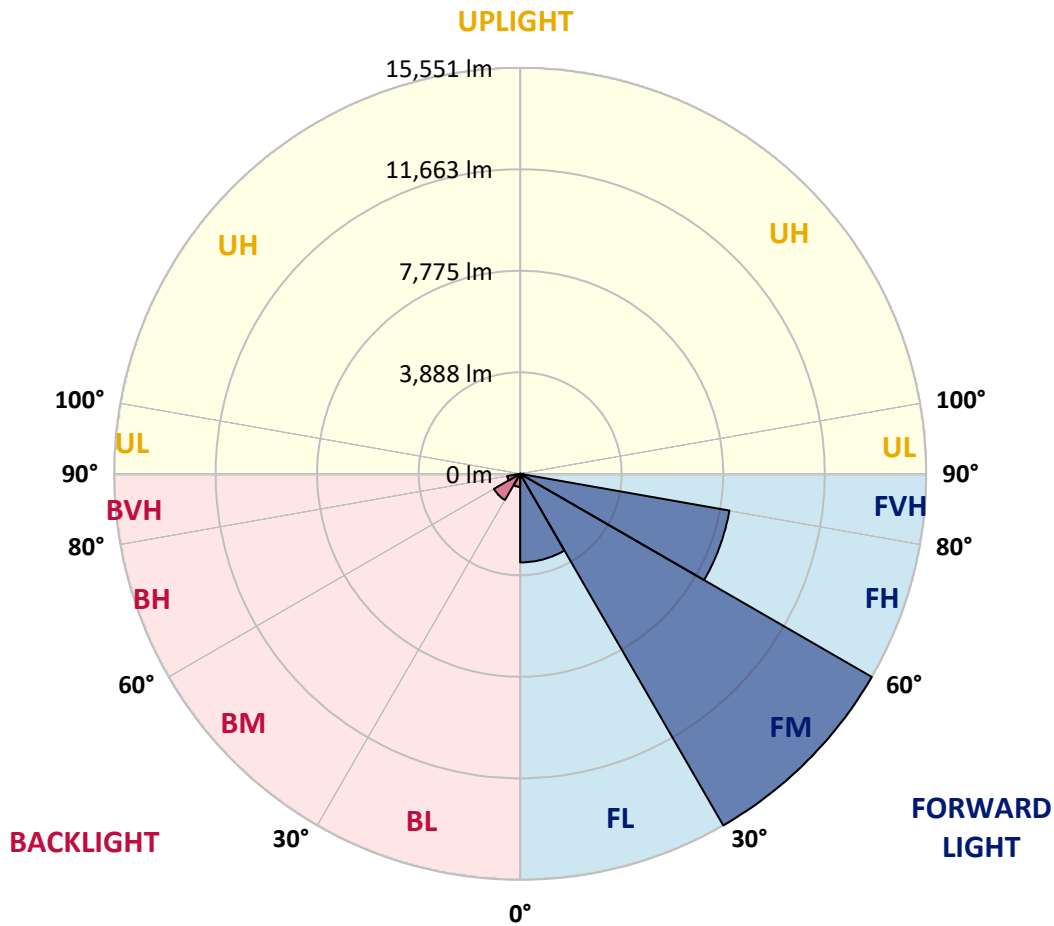
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3392.6	11.5			
FM (30°-60°)	15550.9	52.9			
FH (60°-80°)	8137.1	27.7			G4/12000
FVH (80°-90°)	134.3	0.5			G2/225
BL (0°-30°)	500.4	1.7	B2/1000		
BM (30°-60°)	1158.0	3.9	B2/2500		
BH (60°-80°)	500.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5
2.5°	4689.9	4719.1	4677.2	4596.9	4476.5	4398.1	4206.5	4025.9	3825.3	3761.4
5°	5717.0	5742.5	5695.1	5607.5	5447.0	5293.7	5042.0	4664.4	4272.2	4146.3
7.5°	6477.6	6492.2	6474.0	6393.7	6240.5	6067.2	5786.3	5339.3	4757.4	4618.8
10°	7024.9	7072.3	7066.8	7035.8	6933.7	6793.2	6494.0	5985.1	5301.0	5122.3
12.5°	7387.9	7440.8	7471.8	7541.1	7535.6	7446.3	7183.6	6645.5	5842.8	5633.0
15°	7493.7	7550.2	7668.8	7829.3	7971.6	8017.2	7833.0	7293.0	6439.3	6171.2
17.5°	7433.5	7521.1	7663.3	7916.9	8228.8	8435.0	8414.9	7918.7	6981.1	6674.6
20°	7566.7	7650.6	7761.8	7975.3	8338.3	8712.2	8861.8	8517.1	7519.2	7198.2
22.5°	8303.6	8289.0	8300.0	8334.6	8551.7	8922.0	9230.3	9060.7	8051.9	7723.5
25°	9471.1	9405.4	9294.1	9106.3	9051.5	9230.3	9551.4	9542.2	8613.7	8261.7
27.5°	10810.0	10799.1	10538.2	10085.8	9830.5	9761.1	9914.4	10011.0	9170.1	8794.3
30°	12092.4	12121.6	11769.5	11266.1	10797.3	10525.5	10386.8	10456.1	9735.6	9368.9
32.5°	13208.8	13239.8	12856.8	12267.5	11687.5	11359.1	11067.2	10895.8	10352.2	9952.7
35°	14151.9	14182.9	13743.3	13092.1	12473.7	12176.3	11846.2	11377.4	10972.4	10600.3
37.5°	14994.7	14985.6	14396.4	13739.7	13132.2	12896.9	12723.6	11970.2	11610.8	11251.5
40°	15492.7	15531.0	15027.5	14303.3	13714.1	13542.6	13531.7	12705.3	12347.8	11999.4
42.5°	15638.6	15706.1	15341.3	14746.6	14212.1	14026.0	14312.4	13500.7	13205.2	12865.9
45°	15375.9	15441.6	15275.6	14863.3	14551.4	14431.0	14983.7	14325.2	14120.9	13785.3
47.5°	14609.8	14691.9	14732.0	14644.4	14640.8	14763.0	15585.7	15193.5	15208.1	14865.2
50°	13126.7	13265.4	13633.9	13944.0	14423.7	15025.7	16171.3	16134.8	16434.0	16138.4
52.5°	10430.6	10627.6	11897.2	12745.5	13823.6	14976.4	16815.2	17645.2	18584.6	18152.3
55°	8382.1	8382.1	9414.5	11001.6	12652.4	14651.7	17096.1	18626.6	20049.5	19947.3
57.5°	6833.3	6915.4	7574.0	8976.7	10957.8	13878.3	17269.4	19243.2	21229.7	21154.9
60°	4217.5	4394.4	5638.5	7023.1	9029.6	12501.0	17160.0	19867.0	22661.7	22721.9
62.5°	2375.1	2440.7	2995.3	5053.0	7021.2	10649.5	16322.7	20215.5	24493.1	24748.5
65°	1639.9	1672.8	1886.2	3144.9	4866.9	8478.7	14686.4	19998.4	26328.3	26844.5
67.5°	1191.2	1207.6	1340.8	1920.9	2887.7	6147.5	12121.6	18903.9	27300.5	28163.4
70°	915.7	926.7	1023.4	1262.3	1705.6	3794.3	8803.4	16727.6	26596.4	27627.1
72.5°	744.3	755.2	830.0	934.0	1131.0	2243.7	5335.7	13584.6	23488.0	24600.8
75°	627.5	642.1	709.6	777.1	886.5	1441.1	2502.8	9460.1	17663.4	18393.1
77.5°	348.4	321.1	576.4	643.9	747.9	912.1	1171.1	5567.4	9892.5	10095.0
80°	217.1	224.4	457.9	518.1	574.6	459.7	536.3	2143.4	3429.4	3258.0
82.5°	12.8	29.2	352.1	374.0	394.0	197.0	202.5	727.8	826.3	758.9
85°	0.0	0.0	160.5	129.5	136.8	56.5	58.4	169.6	111.3	120.4
87.5°	0.0	0.0	0.0	3.6	0.0	5.5	10.9	14.6	5.5	7.3
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°
3387.5	0°	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5	3387.5
3560.8	2.5°	3433.1	3305.4	3046.4	2792.8	2586.7	2395.1	2258.3	2128.8	2063.1	2059.5
3790.6	5°	3537.1	3268.9	2750.8	2293.0	1924.5	1629.0	1437.4	1300.6	1231.3	1207.6
4073.4	7.5°	3683.0	3279.9	2491.8	1855.2	1421.0	1167.5	1058.0	1014.2	999.6	983.2
4392.6	10°	3867.2	3305.4	2260.1	1494.0	1120.0	992.3	948.6	930.3	919.4	908.4
4752.0	12.5°	4073.4	3329.1	2030.3	1240.4	985.1	919.4	888.4	866.5	851.9	839.1
5120.4	15°	4274.0	3343.7	1791.3	1063.5	915.7	862.8	830.0	806.3	786.2	771.6
5481.6	17.5°	4472.9	3363.8	1567.0	957.7	859.2	806.3	773.4	744.3	727.8	711.4
5861.1	20°	4693.6	3360.1	1355.4	882.9	802.6	749.7	715.1	687.7	671.3	653.1
6262.4	22.5°	4897.9	3341.9	1169.3	819.1	744.3	693.2	654.9	627.5	611.1	596.5
6672.8	25°	5133.2	3327.3	1014.2	760.7	689.5	638.5	596.5	571.0	552.7	540.0
7085.1	27.5°	5359.4	3305.4	901.1	707.8	636.6	587.4	547.3	518.1	501.6	492.5
7510.1	30°	5582.0	3299.9	859.2	656.7	589.2	540.0	499.8	472.5	459.7	456.0
7977.1	32.5°	5850.1	3314.5	877.4	638.5	545.4	496.2	457.9	437.8	425.0	425.0
8497.0	35°	6136.5	3310.9	904.8	654.9	516.2	452.4	423.2	410.4	397.7	397.7
9073.4	37.5°	6495.9	3316.3	926.7	682.2	505.3	415.9	399.5	383.1	375.8	375.8
9704.6	40°	7032.2	3496.9	915.7	706.0	501.6	390.4	357.5	352.1	346.6	346.6
10417.8	42.5°	7688.9	3889.1	930.3	707.8	499.8	372.1	328.4	339.3	326.5	324.7
11222.3	45°	8407.6	4317.8	1023.4	669.5	498.0	363.0	313.8	326.5	306.5	306.5
12154.4	47.5°	9120.9	4742.8	1118.2	614.7	492.5	361.2	301.0	293.7	288.2	290.0
13369.3	50°	10104.1	5089.4	1154.7	540.0	479.8	357.5	277.3	279.1	275.4	279.1
15082.2	52.5°	11174.9	5162.4	1110.9	456.0	443.3	346.6	260.9	268.2	266.3	270.0
16288.0	55°	11842.5	5084.0	917.6	379.4	386.7	302.8	244.4	259.0	259.0	259.0
17466.4	57.5°	12532.1	4750.1	651.2	308.3	321.1	248.1	229.8	249.9	248.1	246.3
18885.6	60°	13028.2	4210.2	428.7	253.6	255.4	204.3	213.4	235.3	233.5	224.4
20348.6	62.5°	13398.5	3613.7	275.4	215.3	195.2	184.2	195.2	213.4	206.1	186.1
21589.1	65°	13356.6	2787.3	211.6	184.2	160.5	160.5	169.6	186.1	164.2	131.3
21826.2	67.5°	12577.7	1886.2	175.1	155.1	135.0	133.2	140.5	155.1	140.5	111.3
20611.3	70°	11185.8	1233.1	140.5	120.4	107.6	98.5	113.1	133.2	118.6	89.4
17546.7	72.5°	9078.9	751.6	105.8	87.6	78.4	63.8	89.4	109.5	94.9	65.7
12201.9	75°	5873.8	383.1	73.0	56.5	42.0	38.3	65.7	82.1	65.7	40.1
5414.1	77.5°	2247.4	160.5	40.1	25.5	21.9	18.2	36.5	49.3	27.4	9.1
1048.9	80°	432.3	67.5	20.1	12.8	10.9	7.3	5.5	3.6	0.0	0.0
186.1	82.5°	74.8	21.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
36.5	85°	25.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	9.1	0.0	0.0	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>
3387.5
2055.8
1204.0
979.6
904.8
835.5
769.8
709.6
651.2
594.7
538.1
492.5
454.2
425.0
397.7
375.8
346.6
322.9
306.5
290.0
279.1
270.0
259.0
246.3
224.4
182.4
127.7
107.6
85.7
62.0
34.7
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