

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: P957128

Luminaire Tested: **GALN-SB9C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957128  
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-SB9C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

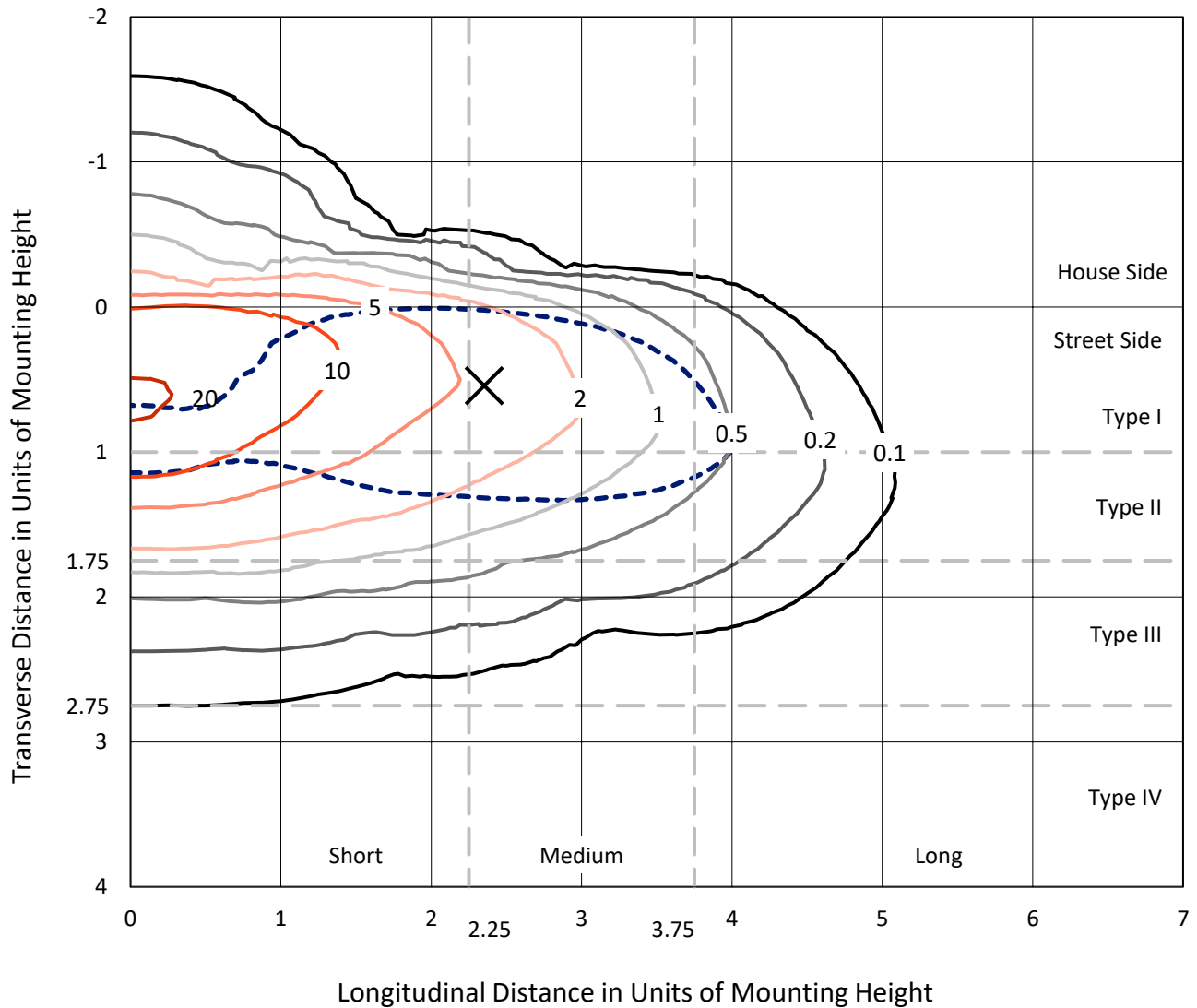
Lumens per Lamp: N/A  
Luminaire Lumens: 50222 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

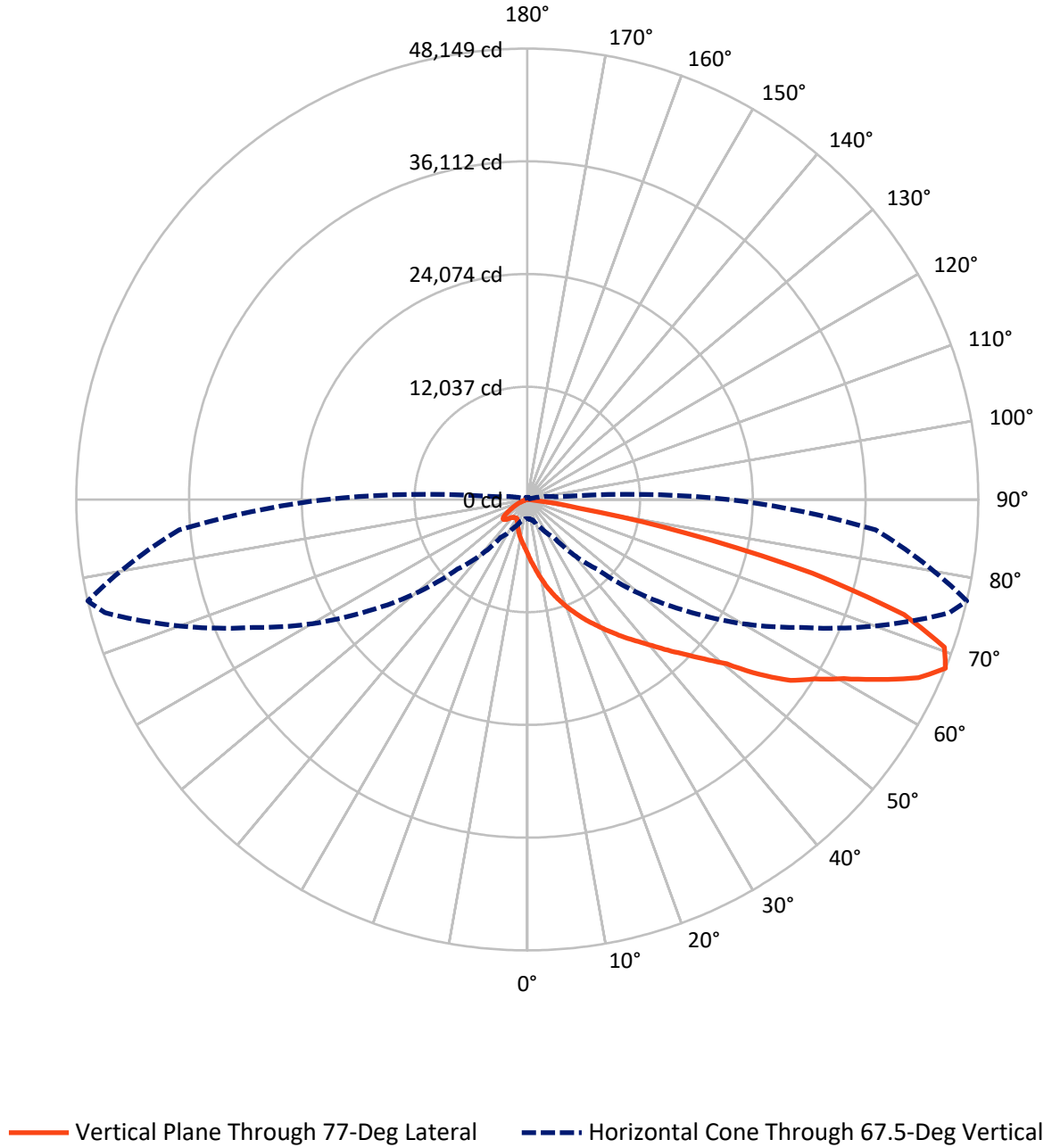
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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	3694.9	0.0	3694.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	46527.1	0.0	46527.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	50222.0	0.0	50222.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.1	1.2
10°-20°	2070.0	4.1
20°-30°	3994.5	8.0
30°-40°	6934.6	13.8
40°-50°	10068.7	20.0
50°-60°	11562.6	23.0
60°-70°	10038.5	20.0
70°-80°	4728.2	9.4
80°-90°	233.8	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°	50222.0	100.0
0°-180°	50222.0	100.0

**Coefficient of Utilization**



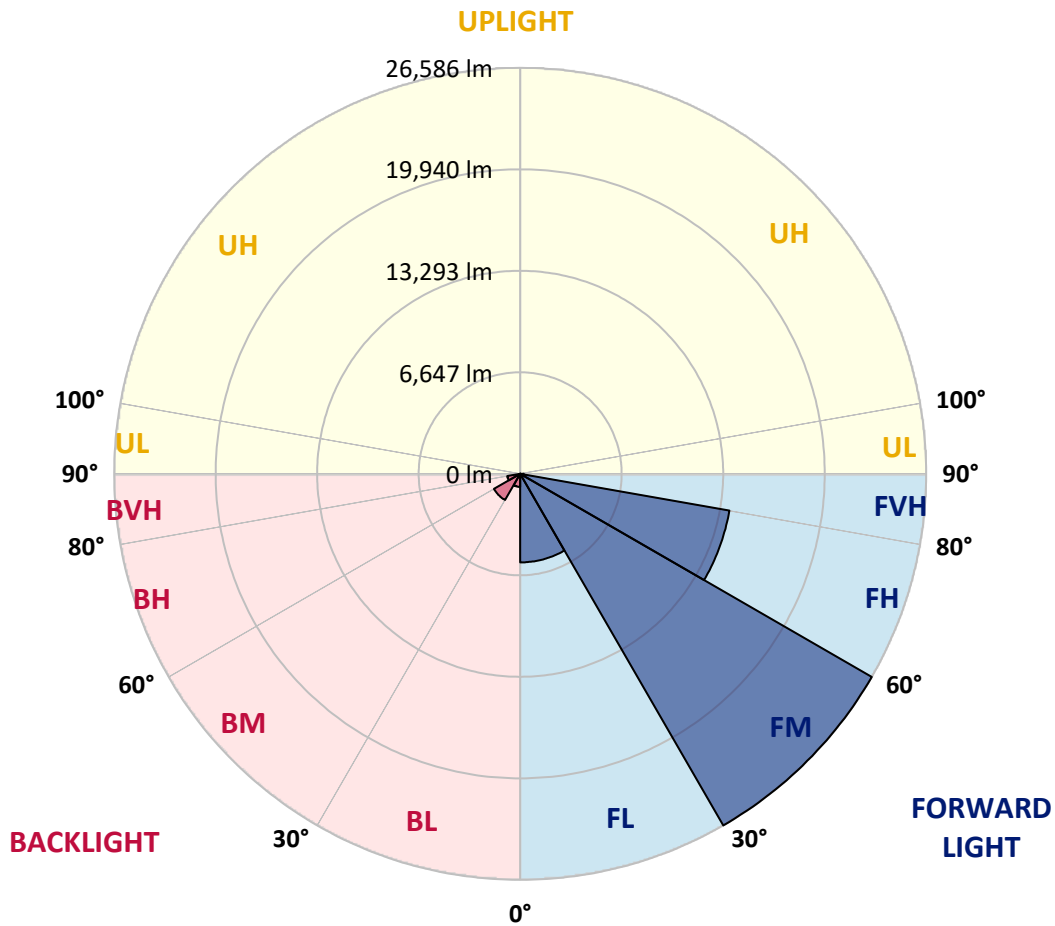
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5800.1	11.5			
FM (30°-60°)	26586.2	52.9			
FH (60°-80°)	13911.3	27.7			G5
FVH (80°-90°)	229.5	0.5			G3/500
BL (0°-30°)	855.4	1.7	B2/1000		
BM (30°-60°)	1979.8	3.9	B2/2500		
BH (60°-80°)	855.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3
2.5°	8018.1	8068.0	7996.2	7859.0	7653.2	7519.1	7191.6	6882.9	6539.8	6430.7
5°	9773.9	9817.5	9736.4	9586.7	9312.3	9050.3	8620.0	7974.4	7303.9	7088.7
7.5°	11074.3	11099.3	11068.1	10930.9	10668.9	10372.6	9892.4	9128.3	8133.4	7896.4
10°	12009.9	12091.0	12081.7	12028.6	11854.0	11613.9	11102.4	10232.3	9062.8	8757.2
12.5°	12630.5	12721.0	12774.0	12892.5	12883.1	12730.3	12281.2	11361.2	9989.0	9630.4
15°	12811.4	12908.1	13110.8	13385.2	13628.5	13706.5	13391.5	12468.4	11008.8	10550.4
17.5°	12708.5	12858.2	13101.5	13534.9	14068.2	14420.6	14386.3	13538.1	11935.1	11411.1
20°	12936.2	13079.6	13269.9	13634.7	14255.4	14894.7	15150.4	14561.0	12855.1	12306.2
22.5°	14196.1	14171.1	14189.9	14249.1	14620.2	15253.3	15780.4	15490.3	13765.7	13204.4
25°	16192.0	16079.8	15889.5	15568.3	15474.7	15780.4	16329.3	16313.7	14726.3	14124.4
27.5°	18481.1	18462.4	18016.4	17243.0	16806.4	16687.9	16949.9	17115.2	15677.5	15035.0
30°	20673.5	20723.4	20121.5	19260.8	18459.3	17994.6	17757.6	17876.1	16644.2	16017.4
32.5°	22582.2	22635.2	21980.3	20972.9	19981.2	19419.8	18920.9	18627.7	17698.3	17015.4
35°	24194.5	24247.5	23495.9	22382.6	21325.3	20817.0	20252.5	19451.0	18758.7	18122.5
37.5°	25635.3	25619.7	24612.4	23489.7	22451.2	22048.9	21752.6	20464.6	19850.2	19235.8
40°	26486.7	26552.2	25691.4	24453.3	23446.0	23152.9	23134.2	21721.4	21110.1	20514.5
42.5°	26736.2	26851.6	26227.9	25211.2	24297.4	23979.3	24468.9	23081.1	22575.9	21995.8
45°	26287.1	26399.4	26115.6	25410.8	24877.5	24671.6	25616.6	24490.8	24141.5	23567.6
47.5°	24977.3	25117.6	25186.2	25036.5	25030.3	25239.2	26645.8	25975.2	26000.2	25413.9
50°	22441.8	22678.8	23308.8	23839.0	24659.2	25688.3	27646.8	27584.5	28095.9	27590.7
52.5°	17832.4	18169.3	20339.8	21790.0	23633.1	25604.1	28747.7	30166.7	31772.8	31033.7
55°	14330.2	14330.2	16095.4	18808.6	21631.0	25049.0	29228.0	31844.5	34277.1	34102.4
57.5°	11682.5	11822.8	12948.6	15346.9	18733.7	23726.7	29524.3	32898.6	36294.9	36167.0
60°	7210.3	7512.8	9639.8	12006.8	15437.3	21372.1	29337.1	33965.2	38743.0	38845.9
62.5°	4060.5	4172.8	5120.8	8638.7	12003.7	18206.7	27905.7	34560.9	41874.1	42310.7
65°	2803.7	2859.8	3224.7	5376.6	8320.6	14495.5	25108.3	34189.8	45011.5	45894.1
67.5°	2036.5	2064.5	2292.2	3283.9	4936.8	10509.9	20723.4	32318.6	46673.7	48148.9
70°	1565.6	1584.3	1749.6	2158.1	2915.9	6486.8	15050.6	28598.0	45469.9	47232.0
72.5°	1272.4	1291.1	1419.0	1596.7	1933.6	3835.9	9122.1	23224.6	40155.7	42058.1
75°	1072.8	1097.8	1213.2	1328.5	1515.7	2463.7	4278.8	16173.3	30197.9	31445.4
77.5°	595.7	548.9	985.5	1100.9	1278.6	1559.3	2002.2	9518.1	16912.4	17258.6
80°	371.1	383.6	782.8	885.7	982.4	785.9	916.9	3664.4	5863.1	5569.9
82.5°	21.8	49.9	601.9	639.3	673.6	336.8	346.2	1244.3	1412.7	1297.4
85°	0.0	0.0	274.4	221.4	233.9	96.7	99.8	290.0	190.2	205.8
87.5°	0.0	0.0	0.0	6.2	0.0	9.4	18.7	24.9	9.4	12.5
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°
5791.3	0°	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3	5791.3
6087.6	2.5°	5869.3	5651.0	5208.1	4774.7	4422.2	4094.8	3860.9	3639.5	3527.2	3521.0
6480.6	5°	6047.1	5588.6	4702.9	3920.1	3290.2	2785.0	2457.5	2223.6	2105.1	2064.5
6963.9	7.5°	6296.6	5607.3	4260.1	3171.7	2429.4	1995.9	1808.8	1734.0	1709.0	1681.0
7509.7	10°	6611.5	5651.0	3864.0	2554.2	1914.9	1696.5	1621.7	1590.5	1571.8	1553.1
8124.1	12.5°	6963.9	5691.5	3471.1	2120.7	1684.1	1571.8	1518.8	1481.4	1456.4	1434.6
8754.1	15°	7307.0	5716.5	3062.5	1818.2	1565.6	1475.1	1419.0	1378.4	1344.1	1319.2
9371.5	17.5°	7646.9	5750.8	2678.9	1637.3	1468.9	1378.4	1322.3	1272.4	1244.3	1216.3
10020.2	20°	8024.3	5744.6	2317.2	1509.4	1372.2	1281.8	1222.5	1175.7	1147.7	1116.5
10706.3	22.5°	8373.6	5713.4	1999.1	1400.3	1272.4	1185.1	1119.6	1072.8	1044.7	1019.8
11408.0	25°	8775.9	5688.4	1734.0	1300.5	1178.9	1091.5	1019.8	976.1	945.0	923.1
12112.8	27.5°	9162.6	5651.0	1540.6	1210.0	1088.4	1004.2	935.6	885.7	857.6	842.0
12839.5	30°	9543.1	5641.6	1468.9	1122.7	1007.3	923.1	854.5	807.7	785.9	779.7
13637.9	32.5°	10001.5	5666.6	1500.1	1091.5	932.5	848.3	782.8	748.5	726.6	726.6
14526.7	35°	10491.1	5660.4	1546.9	1119.6	882.6	773.4	723.5	701.7	679.9	679.9
15512.2	37.5°	11105.5	5669.7	1584.3	1166.4	863.9	711.1	683.0	654.9	642.4	642.4
16591.2	40°	12022.4	5978.5	1565.6	1206.9	857.6	667.4	611.3	601.9	592.5	592.5
17810.6	42.5°	13145.1	6649.0	1590.5	1210.0	854.5	636.2	561.4	580.1	558.2	555.1
19185.9	45°	14373.9	7381.8	1749.6	1144.5	851.4	620.6	536.4	558.2	523.9	523.9
20779.6	47.5°	15593.3	8108.5	1911.7	1051.0	842.0	617.5	514.6	502.1	492.7	495.9
22856.6	50°	17274.2	8701.0	1974.1	923.1	820.2	611.3	474.0	477.2	470.9	477.2
25785.0	52.5°	19104.9	8825.8	1899.3	779.7	757.8	592.5	446.0	458.4	455.3	461.6
27846.4	55°	20246.3	8691.7	1568.7	648.7	661.2	517.7	417.9	442.8	442.8	442.8
29861.1	57.5°	21425.1	8121.0	1113.4	527.1	548.9	424.1	393.0	427.3	424.1	421.0
32287.4	60°	22273.4	7197.8	732.9	433.5	436.6	349.3	364.9	402.3	399.2	383.6
34788.6	62.5°	22906.5	6178.0	470.9	368.0	333.7	315.0	333.7	364.9	352.4	318.1
36909.2	65°	22834.8	4765.3	361.8	315.0	274.4	274.4	290.0	318.1	280.7	224.5
37314.7	67.5°	21503.1	3224.7	299.4	265.1	230.8	227.7	240.1	265.1	240.1	190.2
35237.6	70°	19123.6	2108.2	240.1	205.8	184.0	168.4	193.4	227.7	202.7	152.8
29998.3	72.5°	15521.5	1284.9	180.9	149.7	134.1	109.2	152.8	187.1	162.2	112.3
20860.7	75°	10042.1	654.9	124.7	96.7	71.7	65.5	112.3	140.3	112.3	68.6
9256.2	77.5°	3842.2	274.4	68.6	43.7	37.4	31.2	62.4	84.2	46.8	15.6
1793.2	80°	739.1	115.4	34.3	21.8	18.7	12.5	9.4	6.2	0.0	0.0
318.1	82.5°	127.9	37.4	12.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0
62.4	85°	43.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.8	87.5°	15.6	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>
5791.3
3514.7
2058.3
1674.7
1546.9
1428.3
1316.1
1213.2
1113.4
1016.7
920.0
842.0
776.5
726.6
679.9
642.4
592.5
552.0
523.9
495.9
477.2
461.6
442.8
421.0
383.6
311.9
218.3
184.0
146.6
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