

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: P944475

Luminaire Tested: **GALN-SB9B-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB9B-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

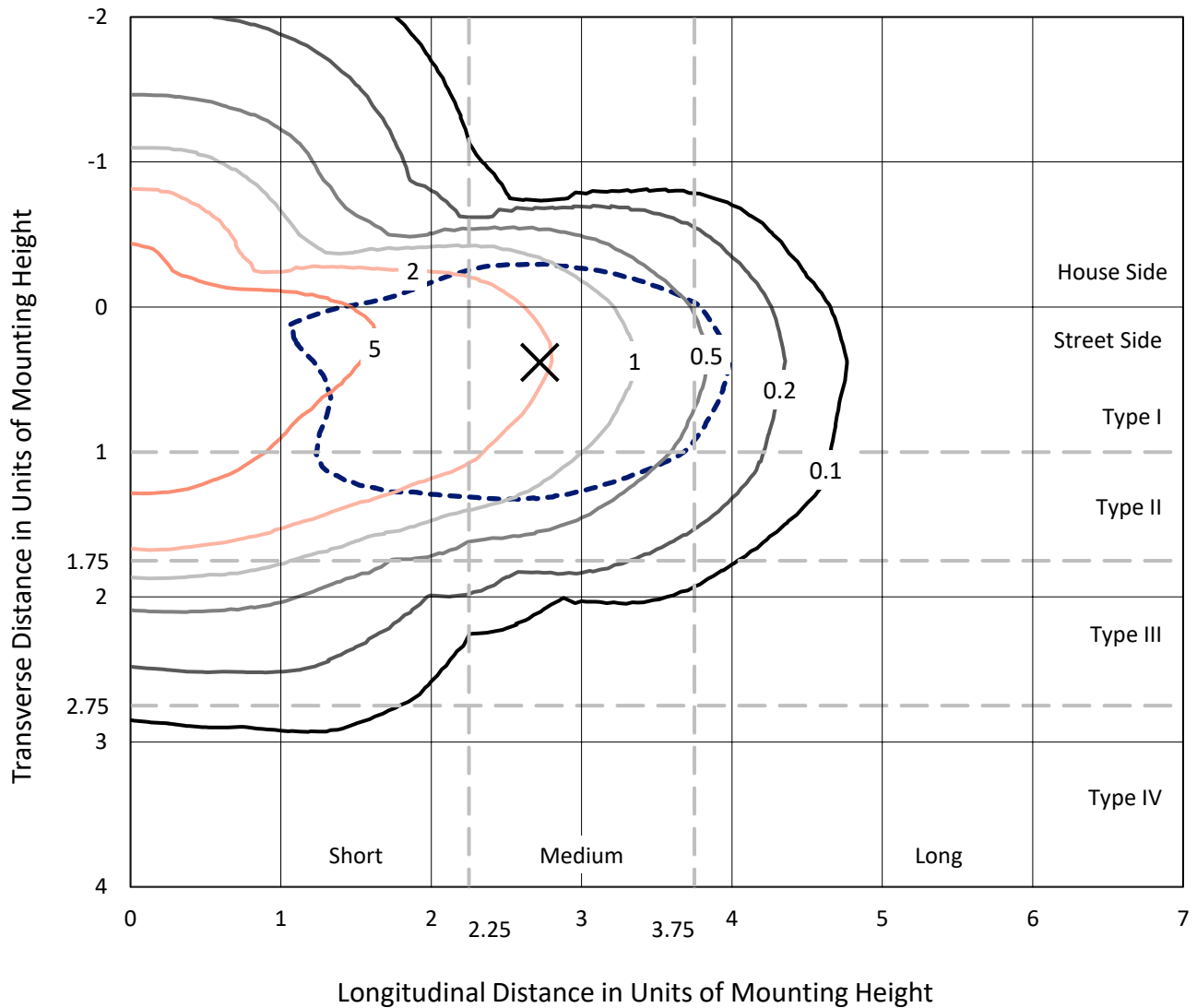
Lumens per Lamp: N/A  
Luminaire Lumens: 36826 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

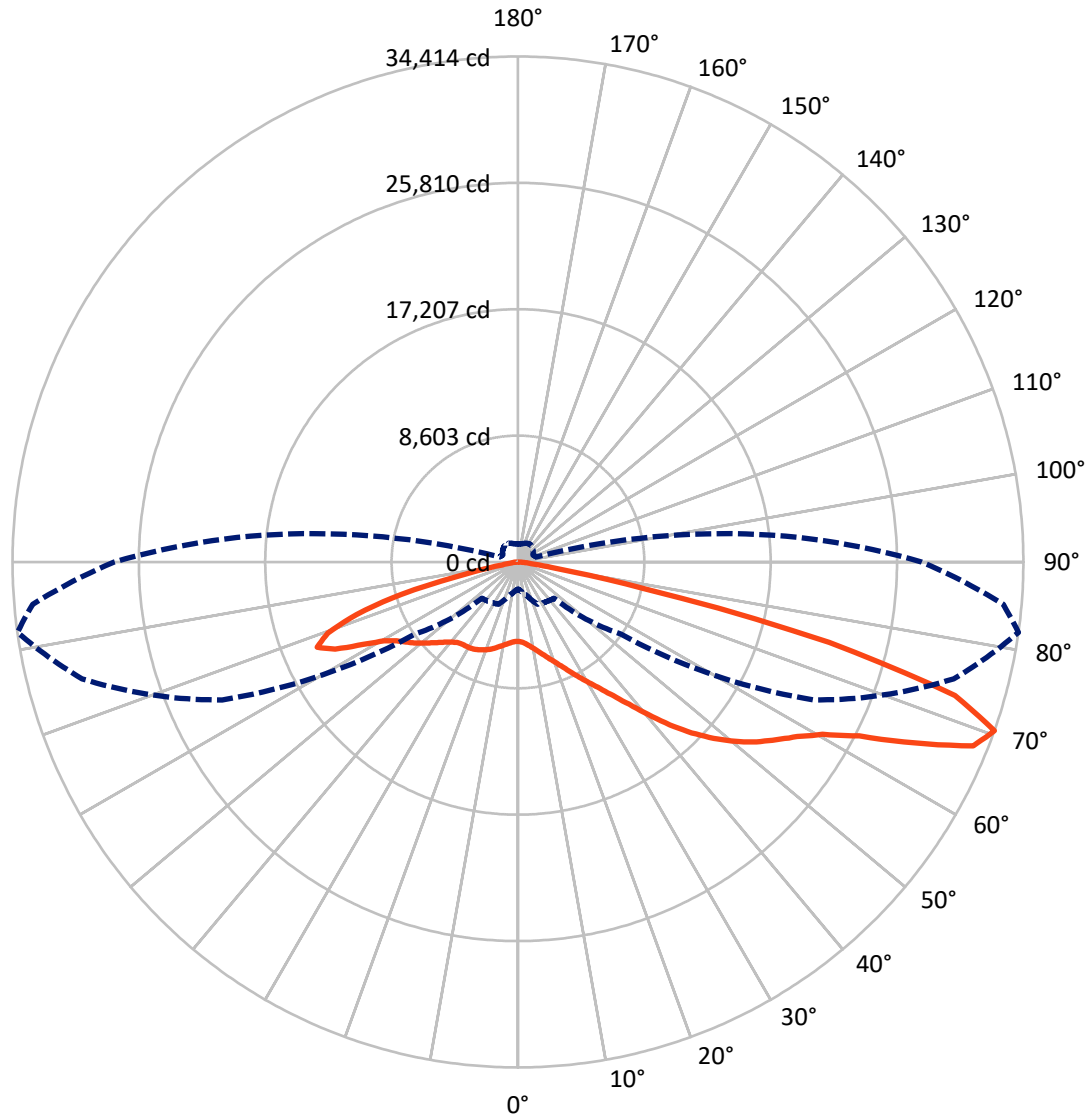
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9078.5	0.0	9078.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	27747.5	0.0	27747.5
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	36826.0	0.0	36826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.8	1.4
10°-20°	1464.6	4.0
20°-30°	2450.2	6.7
30°-40°	3827.8	10.4
40°-50°	6096.2	16.6
50°-60°	8483.6	23.0
60°-70°	8874.2	24.1
70°-80°	4638.1	12.6
80°-90°	481.6	1.3
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°	36826.0	100.0
0°-180°	36826.0	100.0

**Coefficient of Utilization**



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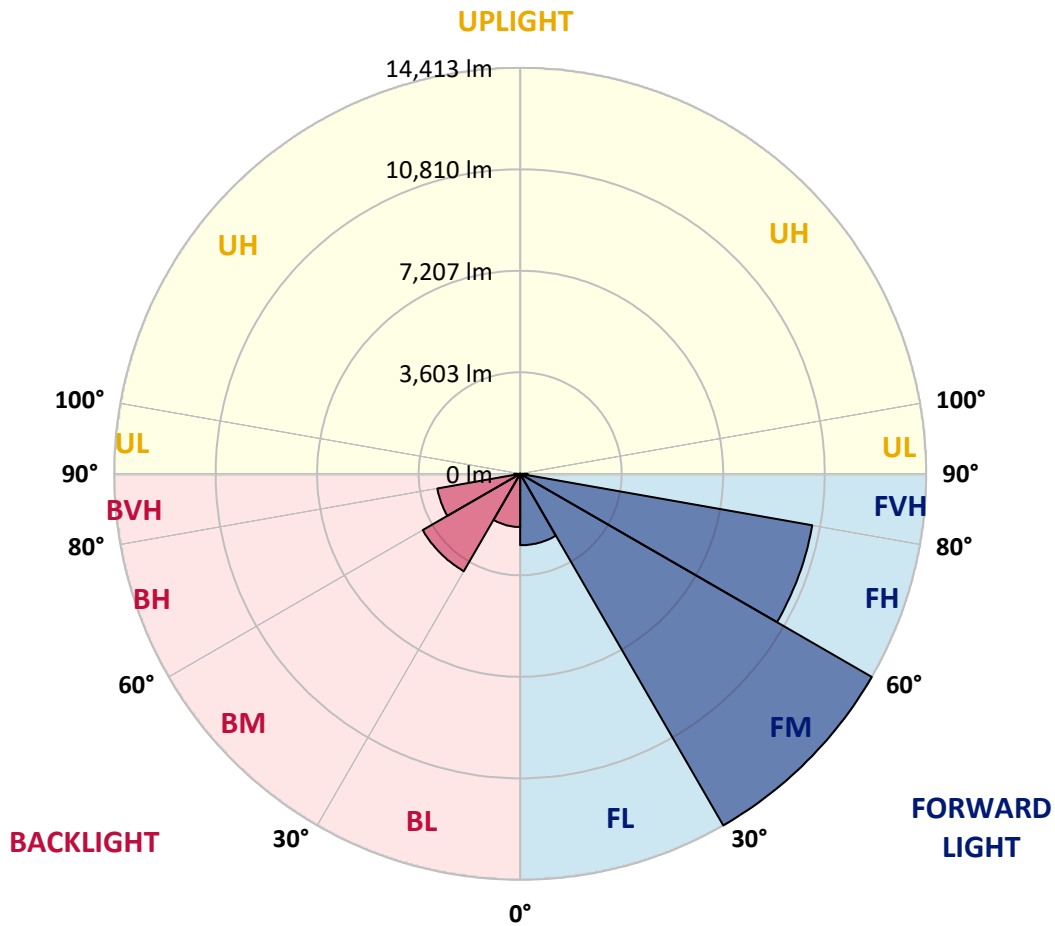
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2535.9	6.9			
FM (30°-60°)	14413.3	39.1			
FH (60°-80°)	10528.7	28.6			G4/12000
FVH (80°-90°)	269.6	0.7			G3/500
BL (0°-30°)	1888.7	5.1	B3/2500		
BM (30°-60°)	3994.2	10.8	B3/5000		
BH (60°-80°)	2983.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	212.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2
2.5°	5528.1	5559.4	5549.6	5539.8	5539.8	5526.2	5524.2	5504.7	5489.0	5463.6
5°	5598.5	5631.7	5627.8	5635.6	5661.0	5666.9	5672.7	5661.0	5629.7	5598.5
7.5°	5535.9	5573.1	5584.8	5631.7	5709.9	5780.2	5833.0	5854.5	5825.1	5780.2
10°	5324.9	5365.9	5407.0	5518.4	5657.1	5823.2	5963.9	6047.9	6042.0	5999.1
12.5°	4897.0	4939.9	5027.9	5244.8	5498.8	5791.9	6053.8	6229.6	6290.2	6259.0
15°	4555.0	4592.1	4658.6	4881.3	5211.6	5657.1	6087.0	6429.0	6583.3	6565.7
17.5°	4545.2	4560.8	4601.9	4707.4	4961.4	5446.1	6051.8	6624.4	6919.4	6917.5
20°	4717.2	4723.0	4746.5	4768.0	4912.6	5285.8	5961.9	6786.6	7296.6	7296.6
22.5°	4955.6	4951.7	4975.1	4955.6	5025.9	5272.1	5905.3	6929.2	7716.7	7748.0
25°	5313.2	5293.6	5287.8	5242.8	5256.5	5399.2	5967.8	7091.4	8215.0	8279.5
27.5°	5790.0	5758.7	5737.2	5633.6	5598.5	5661.0	6159.3	7286.8	8770.0	8881.3
30°	6411.4	6354.7	6323.4	6143.7	6016.6	6026.4	6448.5	7546.7	9350.3	9530.1
32.5°	7259.4	7171.5	7087.5	6792.4	6559.9	6483.7	6821.7	7906.3	9979.5	10266.8
35°	8209.1	8138.8	8048.9	7593.6	7236.0	7060.1	7325.9	8408.5	10716.2	11171.5
37.5°	9123.6	9063.1	9106.1	8492.5	8031.3	7775.3	7986.4	9082.6	11624.9	12297.1
40°	10069.4	10022.5	10028.4	9442.2	8904.8	8617.5	8787.5	9928.7	12666.4	13635.6
42.5°	11097.3	11062.1	10944.9	10425.1	9821.3	9553.5	9709.9	10905.8	13784.2	15159.8
45°	12248.2	12226.7	12117.3	11521.3	10829.6	10528.6	10739.7	11984.4	14907.8	16594.1
47.5°	13242.9	13260.5	13246.8	12744.6	12027.4	11585.8	11837.9	13110.0	15953.2	17942.5
50°	13721.6	13813.5	13948.3	13792.0	13346.4	12897.0	12945.8	14196.5	16949.8	19206.8
52.5°	13471.5	13645.4	14012.8	14262.9	14434.9	14341.1	14210.1	15275.1	17887.7	20347.9
55°	12539.4	12783.7	13393.3	13997.2	14874.5	15556.5	15728.5	16471.0	18802.3	21352.3
57.5°	10841.3	11238.0	11785.1	13006.4	14483.7	16144.7	17498.9	18130.1	19771.5	22425.1
60°	7929.7	8461.2	9141.2	10958.5	13115.9	15830.1	19005.5	20678.2	21149.1	23814.5
62.5°	5074.8	5403.1	6028.4	7740.2	10219.9	14218.0	19466.6	23863.4	23484.3	26093.0
65°	3474.4	3685.4	4258.0	5219.4	6606.8	10583.4	18231.7	26251.3	27193.1	29704.1
67.5°	2524.7	2684.9	3173.4	4015.7	4304.9	6262.9	14147.6	26141.8	30798.4	33424.7
70°	1840.8	1954.1	2364.4	3173.4	3312.2	3484.1	8570.6	22221.9	30720.3	34413.5
72.5°	1364.0	1442.1	1717.6	2462.2	2681.0	2352.7	4242.3	16150.6	26397.8	31126.7
75°	986.8	1045.4	1248.7	1883.7	2145.6	1791.9	2116.3	9438.3	18413.4	21895.6
77.5°	754.3	799.2	932.1	1379.6	1717.6	1344.4	1313.1	4342.0	8730.9	8773.9
80°	605.8	635.1	707.4	971.2	1317.1	1006.4	855.9	1752.8	2759.2	2335.1
82.5°	445.5	494.4	598.0	682.0	941.9	693.7	521.7	885.2	1049.3	902.8
85°	254.0	287.3	361.5	488.5	601.9	424.0	299.0	392.8	488.5	400.6
87.5°	89.9	117.2	127.0	191.5	261.8	175.9	115.3	113.3	160.2	119.2
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°
5399.2	0°	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2	5399.2
5457.8	2.5°	5438.2	5428.5	5389.4	5336.6	5281.9	5229.1	5211.6	5174.4	5149.0	5135.3
5584.8	5°	5547.7	5516.4	5424.6	5307.3	5184.2	5051.3	4957.5	4871.5	4809.0	4750.4
5758.7	7.5°	5704.0	5649.3	5491.0	5285.8	5067.0	4846.1	4682.0	4556.9	4472.9	4418.2
5961.9	10°	5885.7	5801.7	5559.4	5252.6	4914.5	4598.0	4404.5	4297.0	4244.3	4215.0
6194.5	12.5°	6094.8	5975.6	5629.7	5176.4	4682.0	4320.5	4187.6	4156.4	4158.3	4160.3
6487.6	15°	6352.7	6186.7	5686.4	5010.3	4379.1	4107.5	4084.0	4134.9	4187.6	4213.0
6819.8	17.5°	6643.9	6409.4	5696.2	4736.7	4082.1	3970.7	4045.0	4154.4	4234.5	4269.7
7191.1	20°	6956.6	6636.1	5625.8	4349.8	3837.8	3859.3	3992.2	4132.9	4220.8	4265.8
7615.1	22.5°	7314.2	6878.4	5457.8	3943.4	3638.5	3738.2	3894.5	4031.3	4123.1	4168.1
8113.4	25°	7722.6	7150.0	5194.0	3601.4	3466.6	3601.4	3757.7	3871.1	3945.3	3986.3
8670.3	27.5°	8175.9	7433.4	4842.2	3329.8	3316.1	3460.7	3589.7	3677.6	3716.7	3747.9
9262.4	30°	8631.2	7691.3	4416.2	3124.6	3185.2	3322.0	3413.8	3452.9	3464.6	3470.5
9922.9	32.5°	9123.6	7914.1	3968.8	2954.6	3060.1	3187.1	3241.8	3259.4	3204.7	3167.6
10724.0	35°	9719.6	8152.5	3531.0	2819.8	2937.0	3046.4	3064.0	3048.4	2983.9	2907.7
11728.5	37.5°	10456.3	8449.5	3181.3	2724.0	2821.7	2894.0	2872.5	2868.6	2874.5	2784.6
12936.1	40°	11359.1	8836.4	2925.3	2649.7	2727.9	2743.5	2683.0	2716.2	2745.5	2608.7
14261.0	42.5°	12361.6	9303.4	2763.1	2598.9	2649.7	2612.6	2518.8	2556.0	2552.0	2372.3
15591.7	45°	13383.6	9811.5	2706.4	2561.8	2577.4	2503.2	2399.6	2409.4	2327.3	2165.1
16867.7	47.5°	14399.7	10356.7	2741.6	2530.5	2487.6	2403.5	2323.4	2280.4	2159.3	2038.1
18091.0	50°	15396.3	10929.2	2870.6	2468.0	2364.4	2315.6	2257.0	2180.8	2051.8	1948.2
19247.8	52.5°	16320.6	11505.7	3015.2	2364.4	2210.1	2239.4	2202.3	2114.3	1987.3	1881.8
20342.1	55°	17196.0	12082.1	3071.8	2221.8	2065.5	2172.9	2151.5	1989.3	1836.8	1750.9
21487.2	57.5°	18149.6	12775.8	3009.3	2040.1	1948.2	2096.7	2014.7	1834.9	1747.0	1682.5
22978.2	60°	19470.6	13864.3	2874.5	1815.4	1836.8	1983.4	1842.7	1768.5	1672.7	1600.4
25213.6	62.5°	21665.0	15894.6	2657.6	1592.6	1705.9	1815.4	1760.6	1686.4	1588.7	1518.3
29035.8	65°	24908.8	18716.3	2249.2	1418.7	1559.4	1651.2	1672.7	1598.4	1496.8	1422.6
32385.1	67.5°	27644.5	20486.7	1702.0	1274.1	1408.9	1518.3	1578.9	1506.6	1399.1	1326.8
33168.7	70°	27494.1	19200.9	1299.5	1131.4	1276.0	1387.4	1465.6	1408.9	1293.6	1225.2
30128.2	72.5°	24420.3	16062.6	1051.3	986.8	1141.2	1250.6	1344.4	1301.4	1184.2	1117.7
22071.5	75°	17940.5	11402.1	840.3	840.3	973.1	1108.0	1211.5	1184.2	1076.7	1029.8
9266.3	77.5°	7562.3	4783.6	658.5	697.6	809.0	951.6	1080.6	1090.4	996.6	1055.2
2450.4	80°	2010.8	1319.0	502.2	549.1	635.1	785.5	939.9	936.0	834.4	779.7
910.6	82.5°	766.0	519.8	357.6	386.9	459.2	601.9	744.5	768.0	666.3	576.5
357.6	85°	295.1	222.8	220.8	232.5	267.7	398.6	562.8	582.3	502.2	426.0
99.7	87.5°	76.2	66.4	82.1	78.2	123.1	213.0	322.4	334.1	306.8	177.8
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>
5399.2
5151.0
4773.8
4429.9
4222.8
4164.2
4211.1
4277.5
4277.5
4179.8
3998.1
3759.7
3484.1
3179.3
2911.6
2790.4
2612.6
2370.3
2171.0
2038.1
1940.4
1883.7
1743.0
1676.6
1596.5
1518.3
1426.5
1328.8
<i>1231.1</i>
1117.7
1016.1
957.5
725.0
576.5
439.7
254.0
0.0

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