

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: P953614

Luminaire Tested: **GALN-SB7A-840-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

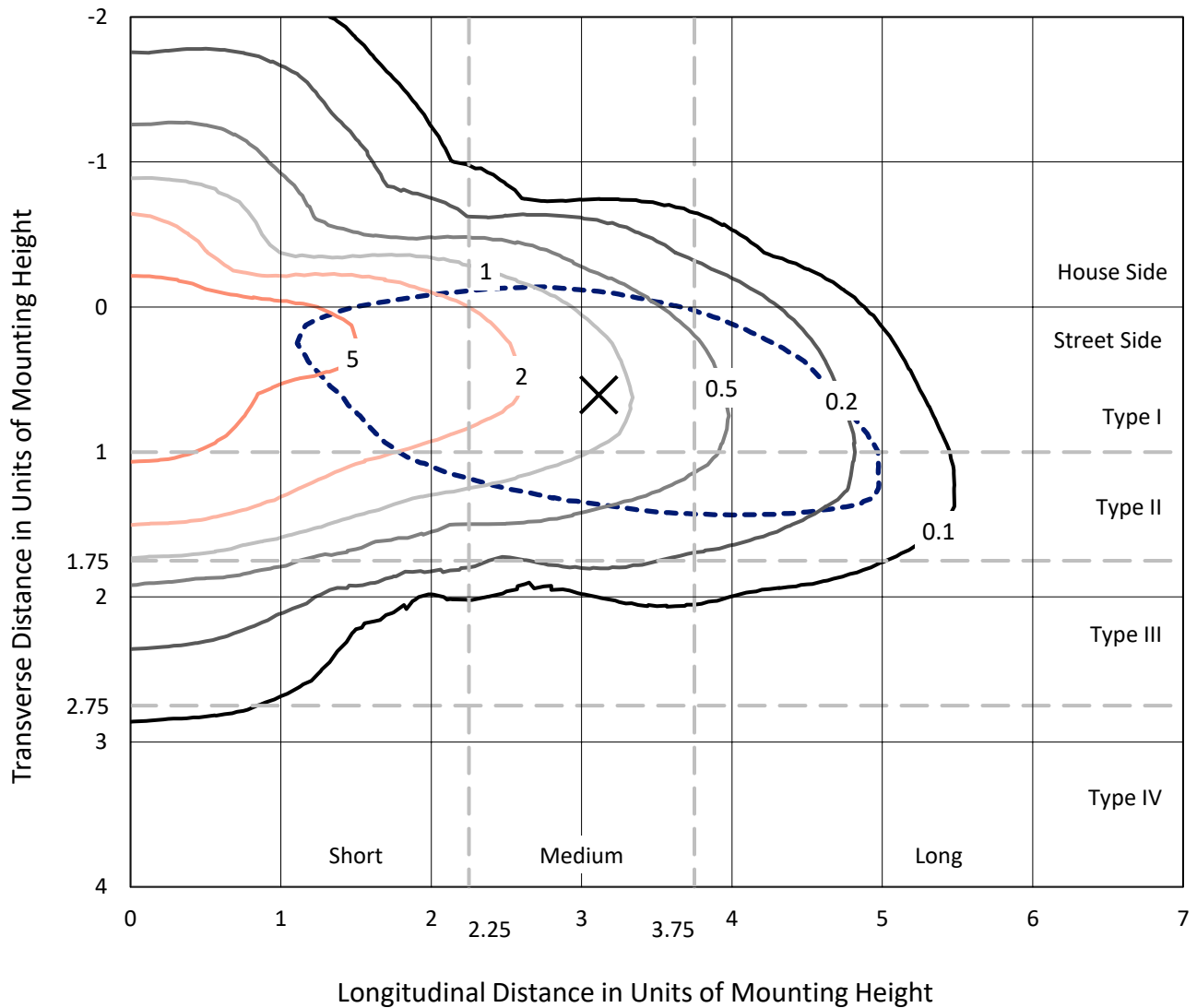
Lumens per Lamp: N/A  
Luminaire Lumens: 30330 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

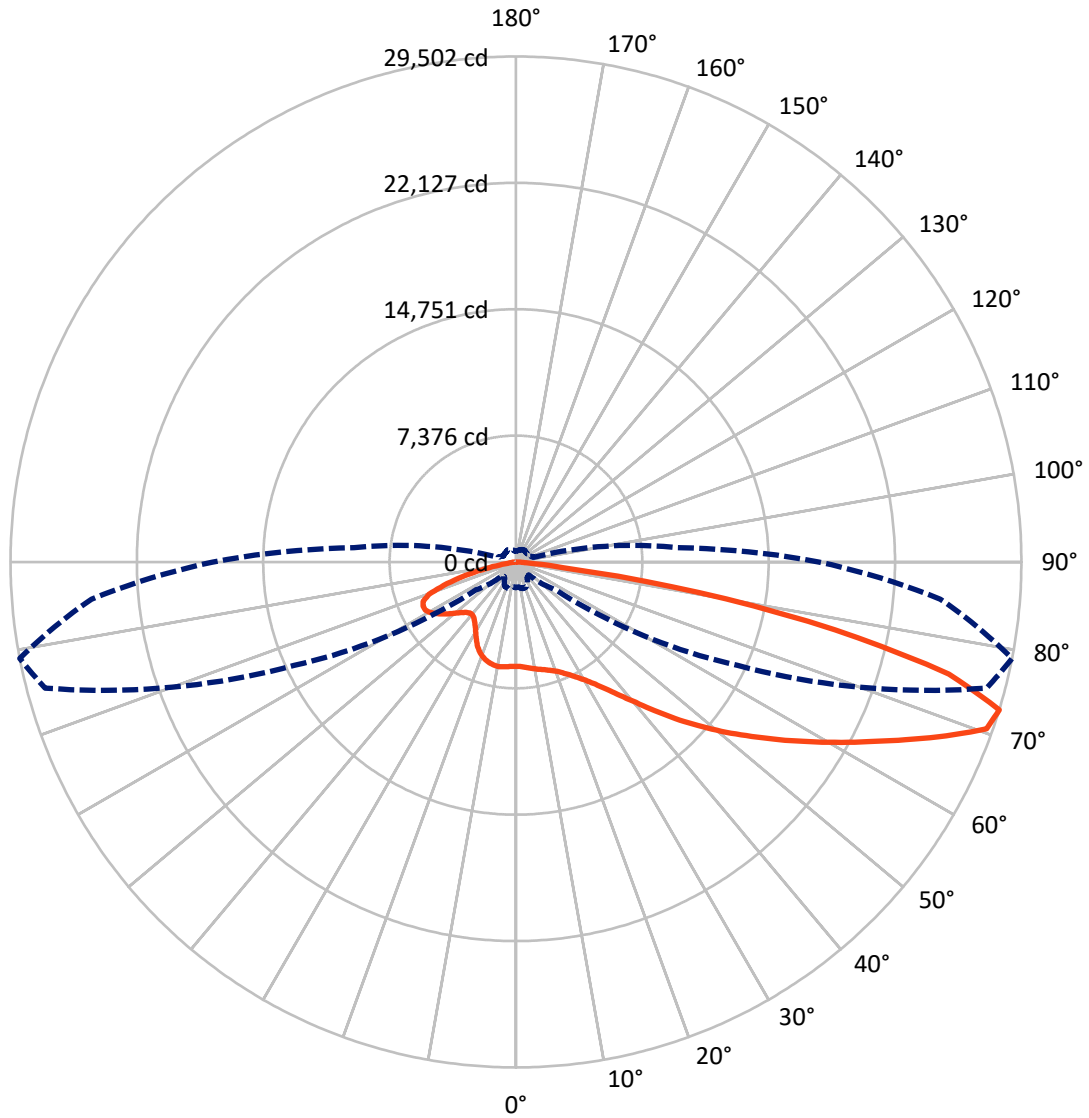
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6674.3	0.0	6674.3
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	23655.7	0.0	23655.7
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	30330.0	0.0	30330.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.7	1.8
10°-20°	1444.9	4.8
20°-30°	2331.5	7.7
30°-40°	3499.3	11.5
40°-50°	4963.9	16.4
50°-60°	6268.7	20.7
60°-70°	6366.8	21.0
70°-80°	4339.2	14.3
80°-90°	563.0	1.9
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°	30330.0	100.0
0°-180°	30330.0	100.0



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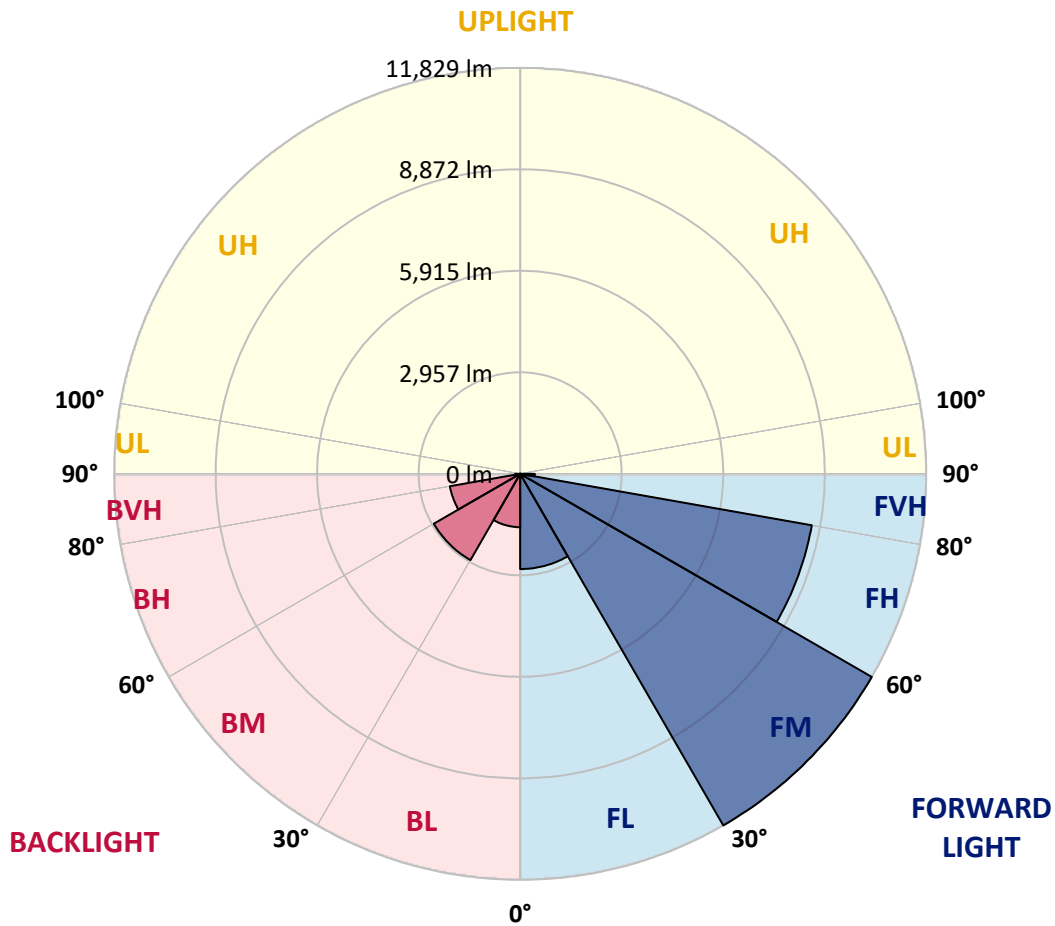
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.5	9.1			
FM (30°-60°)	11829.3	39.0			
FH (60°-80°)	8627.9	28.4			G4/12000
FVH (80°-90°)	424.1	1.4			G3/500
BL (0°-30°)	1554.6	5.1	B3/2500		
BM (30°-60°)	2902.6	9.6	B3/5000		
BH (60°-80°)	2078.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	138.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5
2.5°	6091.7	6062.8	6080.4	6074.0	6082.0	6091.7	6094.9	6099.7	6115.7	6114.1
5°	6078.8	6050.0	6074.0	6066.0	6086.9	6109.3	6128.6	6146.2	6171.9	6183.1
7.5°	6051.6	6032.3	6056.4	6080.4	6118.9	6152.6	6179.9	6220.0	6256.9	6263.3
10°	5892.7	5878.3	5934.4	5997.0	6102.9	6194.3	6253.7	6300.2	6340.3	6346.8
12.5°	5727.5	5709.8	5772.4	5857.4	6029.1	6194.3	6319.5	6380.4	6415.7	6436.6
15°	5700.2	5685.8	5721.1	5794.9	5937.7	6151.0	6364.4	6476.7	6507.2	6531.3
17.5°	5831.8	5804.5	5818.9	5844.6	5928.0	6110.9	6399.7	6585.8	6632.3	6658.0
20°	6136.6	6098.1	6075.6	6024.3	6009.8	6117.3	6396.5	6717.4	6778.3	6810.4
22.5°	6542.5	6516.8	6468.7	6338.7	6197.6	6195.9	6457.5	6885.8	6999.7	7030.2
25°	7033.4	6994.9	6933.9	6757.5	6486.3	6351.6	6560.1	7100.8	7291.7	7299.7
27.5°	7598.1	7540.4	7457.0	7224.3	6858.5	6595.4	6717.4	7347.9	7627.0	7623.8
30°	8193.3	8135.6	8047.4	7765.0	7304.5	6924.3	6935.5	7614.2	8024.9	8007.2
32.5°	8628.1	8584.8	8567.2	8349.0	7817.9	7312.6	7185.8	7909.4	8515.8	8499.8
35°	8961.8	8905.7	8926.5	8815.8	8377.8	7747.3	7492.3	8260.7	9112.6	9111.0
37.5°	9292.3	9242.6	9260.2	9186.4	8896.0	8299.2	7866.1	8690.7	9852.2	9887.5
40°	9593.9	9541.0	9611.6	9542.6	9298.7	8886.4	8291.2	9176.8	10708.9	10776.3
42.5°	9775.2	9733.5	9850.6	9852.2	9648.5	9382.2	8758.1	9712.7	11700.4	11851.2
45°	9837.8	9823.4	9999.8	10036.7	9958.1	9669.3	9178.4	10296.6	12768.9	13038.4
47.5°	9770.4	9743.1	9987.0	10123.4	10185.9	9804.1	9526.6	10928.7	13859.9	14254.5
50°	9430.3	9377.4	9739.9	10027.1	10250.1	9892.3	9877.9	11658.7	15100.0	15531.6
52.5°	8819.0	8778.9	9191.2	9690.2	10108.9	9935.7	10272.6	12456.1	16277.6	16835.9
55°	8037.7	7984.8	8438.8	9090.2	9757.6	9921.2	10667.2	13348.1	17667.0	18233.3
57.5°	6799.2	6693.3	7267.6	8037.7	9184.8	9903.6	11077.9	14235.3	19078.8	19757.4
60°	4992.7	4835.5	5539.8	6452.6	8065.0	9731.9	11586.5	15230.0	20773.0	21384.2
62.5°	2907.1	2815.6	3276.1	4128.0	6078.8	8721.2	11872.1	16386.7	22438.3	23080.0
65°	2257.3	2231.6	2271.7	2337.5	3383.5	6529.7	10991.3	17514.5	24556.0	25005.2
67.5°	2064.8	2045.5	2063.2	1939.6	1716.6	3637.0	8695.5	17800.1	26824.5	27097.3
70°	1835.4	1812.9	1870.7	1764.8	1350.9	1654.1	5618.4	16763.7	28629.4	29141.2
72.5°	1495.2	1469.6	1604.3	1556.2	1137.5	1062.1	2822.0	14301.1	28440.1	29502.2
75°	1148.7	1134.3	1294.7	1334.8	927.3	835.9	1354.1	10630.3	25027.7	26097.8
77.5°	892.0	880.8	962.6	1108.6	747.6	648.2	832.7	6743.0	18860.6	19048.3
80°	669.0	636.9	712.3	858.3	582.4	473.3	564.7	3932.2	11921.8	10806.8
82.5°	418.7	402.7	465.3	572.7	410.7	325.7	367.4	2172.3	4777.7	2814.0
85°	239.0	232.6	253.5	327.3	223.0	187.7	210.2	959.4	872.8	600.0
87.5°	96.3	93.1	115.5	146.0	81.8	69.0	73.8	231.0	192.5	178.1
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°
6088.5	0°	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5	6088.5
6112.5	2.5°	6106.1	6106.1	6083.6	6048.4	6008.2	5982.6	5940.9	5929.6	5886.3	5873.5
6167.1	5°	6179.9	6167.1	6098.1	5998.6	5862.2	5737.1	5599.1	5512.5	5390.6	5347.3
6274.6	7.5°	6273.0	6237.7	6118.9	5900.8	5615.2	5334.4	5042.4	4821.0	4609.3	4533.9
6362.8	10°	6358.0	6308.3	6106.1	5724.3	5230.1	4744.0	4278.8	3953.1	3706.0	3604.9
6460.7	12.5°	6443.0	6351.6	6021.1	5430.7	4683.1	4023.7	3527.9	3274.5	3122.0	3000.1
6540.9	15°	6523.2	6394.9	5889.5	5037.6	4083.0	3414.0	3048.2	2846.1	2724.2	2643.9
6658.0	17.5°	6616.3	6431.8	5692.2	4538.7	3511.9	2992.1	2693.7	2571.8	2547.7	2538.1
6818.4	20°	6746.2	6465.5	5432.3	3980.4	3091.6	2655.2	2501.2	2489.9	2488.3	2483.5
7011.0	22.5°	6885.8	6505.6	5089.0	3473.4	2733.8	2445.0	2417.7	2395.3	2380.8	2379.2
7243.6	25°	7051.1	6518.4	4659.0	3057.9	2429.0	2345.5	2313.5	2279.8	2270.1	2270.1
7508.3	27.5°	7211.5	6475.1	4158.4	2696.9	2257.3	2254.1	2212.4	2201.2	2199.5	2204.4
7809.9	30°	7371.9	6393.3	3661.1	2363.2	2157.8	2157.8	2143.4	2151.4	2157.8	2173.9
8223.8	32.5°	7588.5	6306.6	3245.6	2116.1	2071.2	2055.2	2069.6	2085.6	2092.1	2112.9
8767.7	35°	7906.2	6245.7	2915.1	1981.4	1981.4	1960.5	1968.5	1965.3	1950.9	1941.2
9425.5	37.5°	8326.5	6242.5	2642.3	1918.8	1906.0	1902.7	1904.3	1883.5	1827.3	1760.0
10221.2	40°	8831.9	6329.1	2432.2	1875.5	1865.8	1885.1	1875.5	1819.3	1665.3	1548.2
11199.9	42.5°	9510.5	6576.2	2297.4	1822.5	1851.4	1875.5	1837.0	1642.8	1538.6	1459.9
12314.9	45°	10309.5	6977.3	2228.4	1766.4	1824.1	1853.0	1666.9	1581.9	1498.5	1403.8
13531.0	47.5°	11214.3	7482.6	2212.4	1713.4	1763.2	1780.8	1594.7	1556.2	1461.6	1358.9
14753.5	50°	12199.4	8081.0	2255.7	1650.9	1674.9	1614.0	1570.6	1535.4	1437.5	1336.4
16006.5	52.5°	13218.1	8740.4	2342.3	1565.8	1586.7	1519.3	1561.0	1530.5	1423.0	1286.7
17301.2	55°	14219.2	9404.6	2425.8	1466.4	1496.8	1434.3	1533.7	1511.3	1357.3	1203.3
18682.5	57.5°	15236.4	10065.6	2507.6	1378.1	1410.2	1352.5	1490.4	1459.9	1283.5	1126.2
20190.6	60°	16293.6	10707.3	2546.1	1293.1	1315.6	1277.1	1424.7	1371.7	1200.0	1047.6
21673.0	62.5°	17283.5	11241.6	2483.5	1208.1	1222.5	1206.5	1338.0	1267.4	1116.6	959.4
23218.0	65°	18276.6	11559.2	2291.0	1124.6	1127.8	1119.8	1216.1	1155.1	1018.8	882.4
24570.4	67.5°	19176.6	11737.3	1984.6	1034.8	1026.8	1023.6	1102.2	1033.2	924.1	805.4
25598.8	70°	19367.6	11284.9	1516.1	928.9	928.9	920.9	977.0	906.5	819.8	723.6
24862.4	72.5°	17689.4	9492.9	1076.5	808.6	821.4	805.4	851.9	792.5	713.9	649.8
21427.5	75°	14264.2	6961.2	782.9	685.1	707.5	680.2	723.6	681.8	614.5	612.9
14766.3	77.5°	9800.9	4304.4	567.9	564.7	580.8	545.5	595.2	572.7	511.8	484.5
6427.0	80°	4182.5	1716.6	413.9	436.4	436.4	404.3	462.0	468.5	415.5	402.7
1240.2	82.5°	832.7	487.7	290.4	300.0	282.4	272.7	327.3	362.6	500.6	556.7
373.8	85°	250.3	179.7	174.9	163.6	144.4	146.0	192.5	364.2	449.2	256.7
123.5	87.5°	69.0	44.9	46.5	36.9	30.5	40.1	65.8	275.9	150.8	64.2
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>
6088.5
5894.3
5379.3
4543.5
3627.4
3040.2
2658.4
2544.5
2499.6
2396.9
2279.8
2217.2
2185.1
2130.6
1963.7
1761.6
1545.0
1456.7
1397.4
1350.9
1325.2
1277.1
1195.2
1123.0
1042.8
957.8
872.8
795.8
720.3
630.5
551.9
454.0
402.7
558.3
221.4
54.5
0.0

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