

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: P941364

Luminaire Tested: **GALN-SB4D-840-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

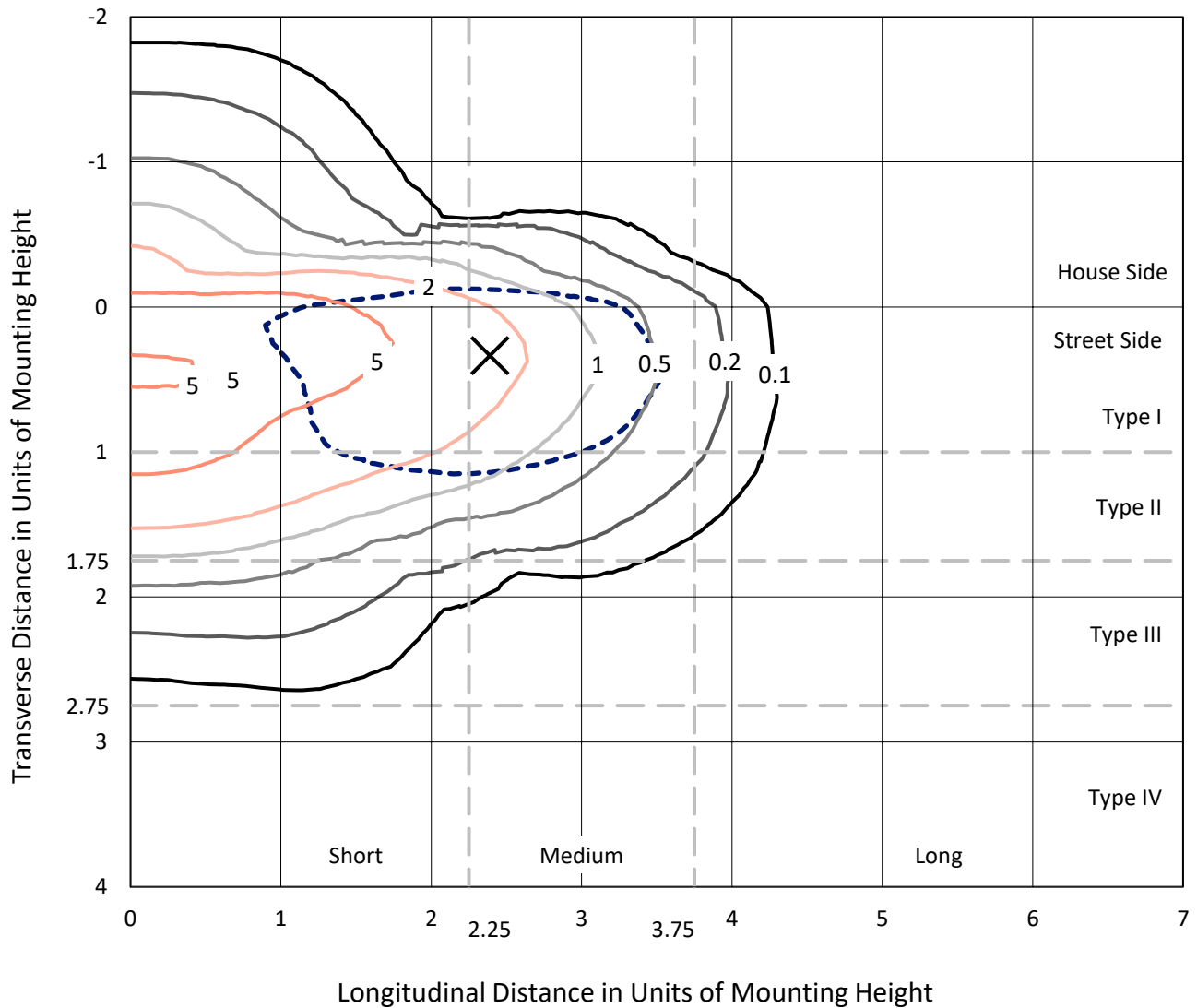
Lumens per Lamp: N/A  
Luminaire Lumens: 28486 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

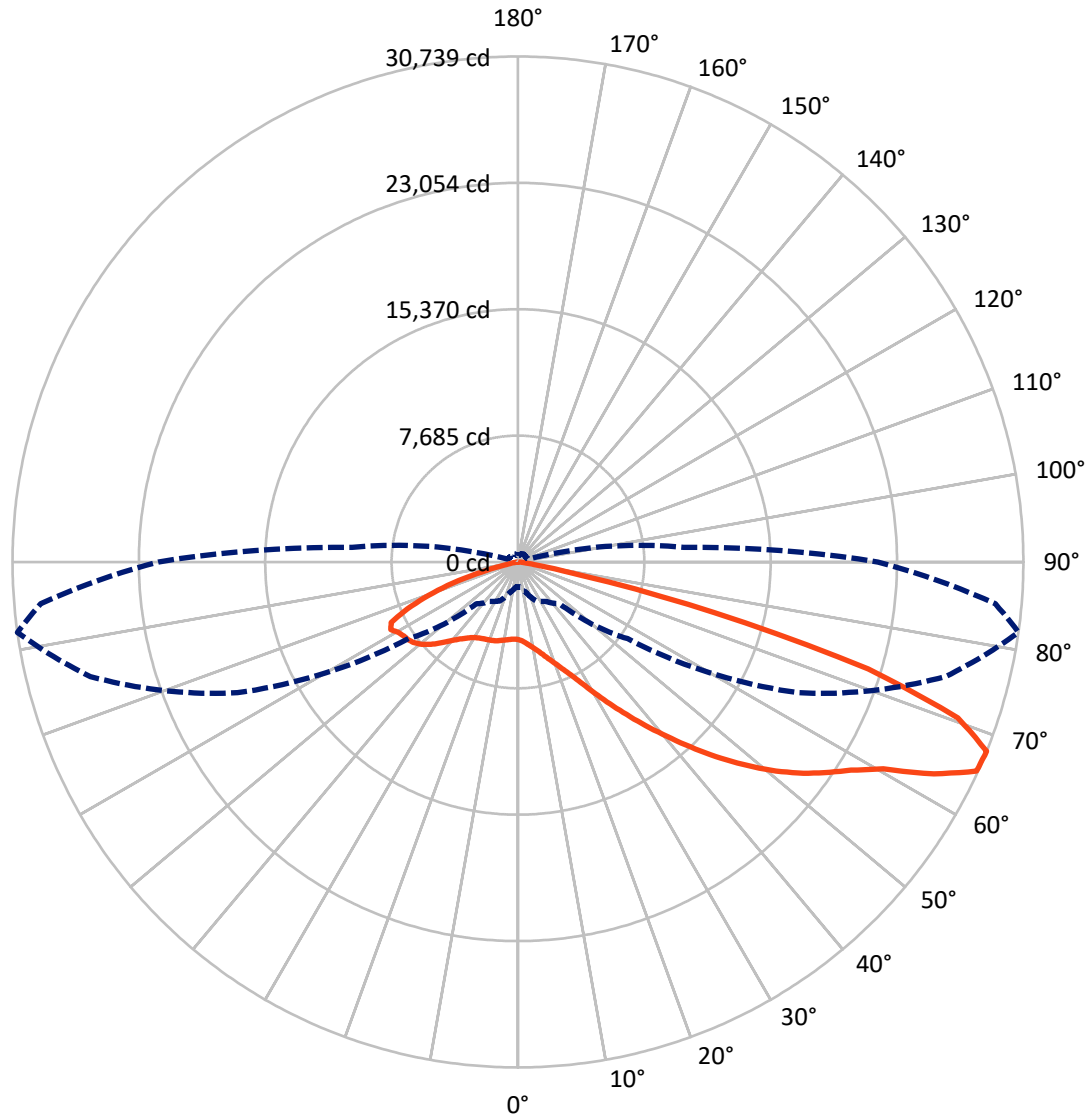
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5160.0	0.0	5160.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	23326.0	0.0	23326.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	28486.0	0.0	28486.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.4	1.5
10°-20°	1092.6	3.8
20°-30°	1749.9	6.1
30°-40°	3094.4	10.9
40°-50°	5421.7	19.0
50°-60°	7231.1	25.4
60°-70°	6731.7	23.6
70°-80°	2583.6	9.1
80°-90°	160.5	0.6
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°	28486.0	100.0
0°-180°	28486.0	100.0

**Coefficient of Utilization**



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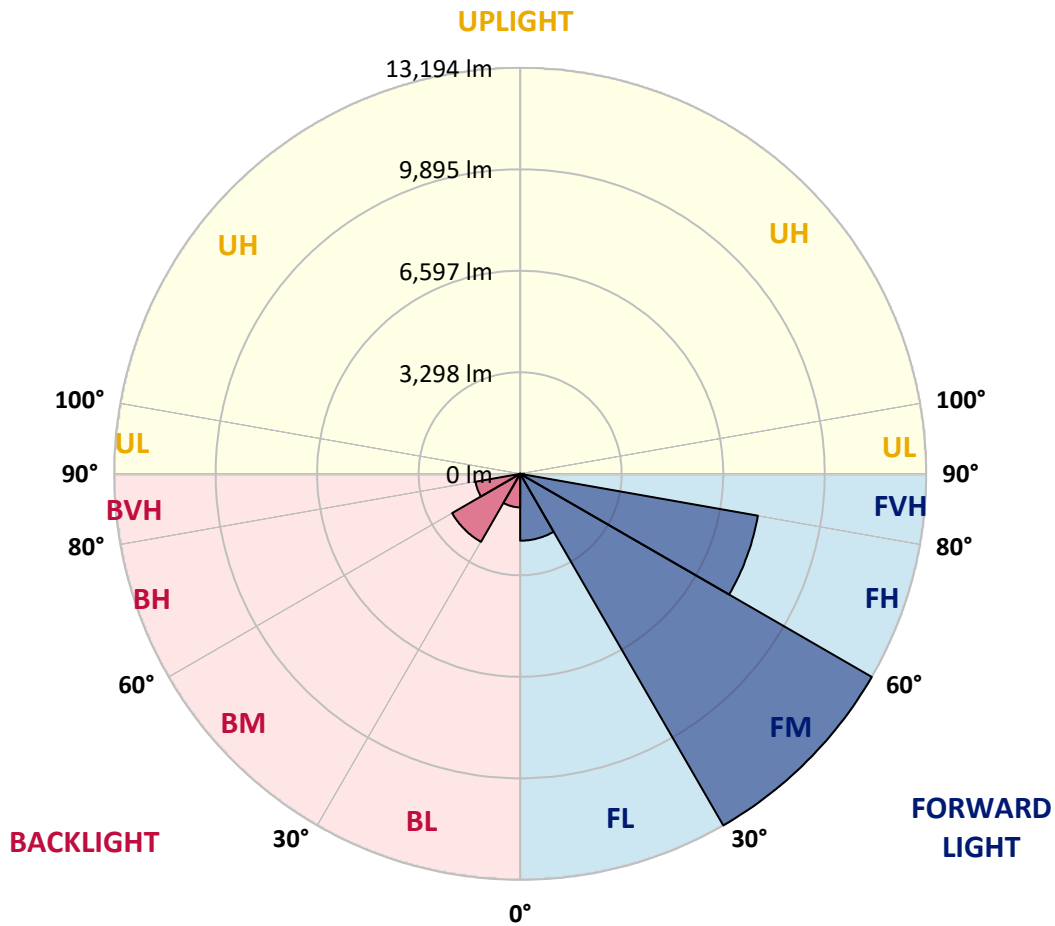
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2173.2	7.6			
FM (30°-60°)	13193.6	46.3			
FH (60°-80°)	7842.6	27.5			G4/12000
FVH (80°-90°)	116.7	0.4			G2/225
BL (0°-30°)	1089.8	3.8	B3/2500		
BM (30°-60°)	2553.7	9.0	B3/5000		
BH (60°-80°)	1472.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.8	0.2			G1/100
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°	82°
0°	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2
2.5°	4987.8	5016.5	5000.1	4991.9	4977.6	4957.1	4940.7	4889.4	4836.1	4801.2
5°	5088.3	5117.0	5115.0	5123.2	5133.5	5139.6	5135.5	5078.1	5002.2	4942.7
7.5°	5002.2	5035.0	5061.7	5102.7	5174.5	5250.4	5287.3	5275.0	5197.0	5115.0
10°	4758.1	4793.0	4856.6	4953.0	5104.7	5268.8	5406.2	5469.8	5420.6	5330.3
12.5°	4311.0	4345.9	4471.0	4680.2	4934.5	5219.6	5482.1	5652.3	5664.6	5574.4
15°	3808.6	3843.4	3976.7	4239.3	4626.9	5084.2	5523.1	5845.1	5953.8	5875.9
17.5°	3496.8	3527.6	3628.1	3839.3	4243.4	4813.5	5508.8	6050.2	6298.4	6236.8
20°	3402.5	3429.1	3476.3	3624.0	3960.3	4532.5	5414.4	6243.0	6669.6	6634.7
22.5°	3503.0	3527.6	3541.9	3607.6	3818.8	4347.9	5295.5	6439.9	7100.3	7104.4
25°	3734.7	3759.3	3742.9	3783.9	3876.2	4290.5	5250.4	6671.6	7641.7	7686.8
27.5°	4116.2	4118.2	4079.3	4077.2	4091.6	4376.7	5297.5	6919.8	8324.7	8408.8
30°	4881.2	4850.4	4700.7	4538.7	4464.9	4635.1	5428.8	7213.1	9130.7	9280.4
32.5°	6060.5	6015.3	5740.5	5352.9	4963.2	5051.4	5664.6	7547.4	10008.5	10279.2
35°	7340.2	7327.9	7040.8	6464.5	5783.6	5644.1	6048.2	7986.3	10966.3	11397.0
37.5°	8529.8	8523.6	8359.5	7680.7	6852.1	6470.7	6663.4	8560.5	11991.7	12615.2
40°	9616.8	9635.2	9471.1	8864.1	8029.4	7531.0	7500.2	9270.2	13132.0	13942.2
42.5°	10556.1	10576.6	10410.5	9961.3	9192.2	8704.1	8527.7	10139.7	14245.7	15367.5
45°	11193.9	11321.1	11296.5	10937.6	10385.9	9879.3	9762.4	11230.8	15515.2	16879.1
47.5°	11374.4	11491.3	11675.9	11725.1	11388.8	10890.4	11029.8	12545.5	16799.1	18392.6
50°	10929.4	11038.0	11421.6	11932.3	12166.1	12012.2	12262.4	13954.5	18113.7	19902.1
52.5°	10051.6	10162.3	10646.3	11454.4	12408.1	12892.1	13499.2	15342.9	19387.3	21331.6
55°	8782.0	8898.9	9520.4	10435.1	11946.6	13255.1	14530.8	16729.4	20554.3	22617.5
57.5°	7055.2	7141.3	7787.3	9067.1	10785.8	12894.1	15291.7	18242.9	21653.6	23880.9
60°	4598.2	4674.0	5424.7	6852.1	8862.0	11688.2	15443.4	19930.8	23113.9	25523.7
62.5°	3057.9	3109.2	3554.2	4602.3	6240.9	9372.7	14555.4	21278.3	25255.0	28382.7
65°	2098.1	2149.4	2594.4	3324.5	4032.1	6199.9	12002.0	21099.9	27195.2	30653.0
67.5°	1497.2	1540.2	1917.6	2606.7	2918.5	3601.4	8136.0	18819.2	26916.3	30739.2
70°	1072.6	1097.2	1409.0	2030.4	2319.6	2163.7	4524.3	14393.4	23567.1	28384.7
72.5°	750.6	758.8	978.3	1546.4	1868.4	1579.2	2153.5	9596.3	17824.5	22279.1
75°	508.6	518.9	658.3	1134.2	1499.2	1205.9	1140.3	5145.8	10463.8	12332.2
77.5°	311.7	315.8	424.5	775.2	1121.9	918.8	734.2	2180.1	4048.5	3974.7
80°	176.4	176.4	270.7	482.0	765.0	592.7	514.8	927.0	1281.8	1126.0
82.5°	98.4	100.5	196.9	299.4	506.6	350.7	283.0	428.6	553.7	490.2
85°	41.0	45.1	121.0	141.5	242.0	174.3	114.9	180.5	205.1	182.5
87.5°	4.1	6.2	36.9	26.7	28.7	34.9	16.4	34.9	28.7	28.7
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°
4719.2	0°	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2	4719.2
4788.9	2.5°	4749.9	4719.2	4641.2	4551.0	4432.0	4374.6	4296.7	4243.4	4198.2	4202.3
4907.9	5°	4842.2	4764.3	4590.0	4372.6	4101.8	3909.1	3704.0	3562.4	3447.6	3423.0
5071.9	7.5°	4969.4	4846.3	4540.7	4149.0	3691.7	3345.1	3035.4	2836.4	2694.9	2649.8
5270.9	10°	5133.5	4955.0	4477.2	3868.0	3209.7	2768.7	2436.5	2280.6	2184.2	2151.4
5504.7	12.5°	5324.2	5080.1	4393.1	3525.5	2713.4	2288.8	2077.6	1999.6	1968.9	1958.6
5791.8	15°	5564.1	5236.0	4265.9	3119.4	2292.9	1995.5	1905.3	1895.0	1899.2	1895.0
6136.4	17.5°	5849.2	5406.2	4058.8	2701.1	2009.9	1845.8	1813.0	1821.2	1831.5	1829.4
6521.9	20°	6161.0	5574.4	3794.2	2329.8	1817.1	1739.2	1720.7	1728.9	1737.1	1733.0
6967.0	22.5°	6515.8	5754.9	3500.9	2040.7	1687.9	1640.7	1620.2	1622.3	1622.3	1614.1
7531.0	25°	6940.3	5953.8	3193.3	1835.6	1589.5	1552.5	1527.9	1519.7	1507.4	1482.8
8216.0	27.5°	7446.9	6165.1	2897.9	1692.0	1511.5	1476.7	1447.9	1427.4	1396.7	1355.7
9038.4	30°	8017.0	6421.4	2647.7	1601.8	1450.0	1415.1	1382.3	1351.6	1306.4	1255.2
9983.9	32.5°	8687.7	6696.3	2465.2	1542.3	1394.6	1357.7	1318.7	1281.8	1232.6	1181.3
11046.3	35°	9487.6	7028.5	2358.6	1501.3	1351.6	1302.3	1259.3	1218.2	1181.3	1136.2
12200.9	37.5°	10355.1	7381.3	2325.7	1480.8	1322.8	1247.0	1197.7	1169.0	1164.9	1138.3
13449.9	40°	11304.7	7799.6	2350.4	1468.5	1292.1	1193.6	1140.3	1134.2	1144.4	1097.2
14785.1	42.5°	12309.6	8296.0	2391.4	1454.1	1249.0	1140.3	1089.0	1089.0	1080.8	1015.2
16196.1	45°	13396.6	8868.2	2432.4	1419.2	1197.7	1087.0	1048.0	1033.7	998.8	935.2
17615.3	47.5°	14491.8	9450.6	2463.2	1355.7	1136.2	1041.9	1007.0	974.2	922.9	865.5
19007.9	50°	15531.6	9973.6	2430.3	1261.3	1066.5	998.8	961.9	916.8	861.4	822.4
20326.7	52.5°	16460.7	10426.9	2290.9	1150.6	992.6	953.7	920.9	873.7	828.6	787.6
21516.2	55°	17268.7	10794.0	2044.8	1046.0	927.0	914.7	881.9	822.4	760.9	726.0
22695.5	57.5°	18044.0	11072.9	1737.1	959.8	867.5	871.6	822.4	769.1	711.7	674.8
24284.9	60°	19075.6	11446.2	1425.4	879.8	804.0	816.3	762.9	724.0	652.2	605.0
27010.6	62.5°	20724.5	12026.6	1132.1	781.4	730.1	734.2	711.7	664.5	578.4	523.0
29030.8	65°	22033.0	11813.3	892.2	674.8	646.0	652.2	652.2	600.9	508.6	445.0
29139.5	67.5°	21885.4	10115.1	711.7	570.2	566.1	570.2	584.5	541.4	451.2	399.9
26920.4	70°	20160.5	8045.8	570.2	473.8	492.2	482.0	523.0	494.3	406.1	354.8
20870.2	72.5°	16450.4	5795.9	434.8	391.7	377.4	393.8	471.7	445.0	338.4	281.0
11054.5	75°	9612.7	3092.8	324.0	309.7	272.8	328.1	418.4	379.4	258.4	207.1
3388.1	77.5°	3129.7	1078.8	237.9	227.7	203.0	264.6	356.9	319.9	211.2	164.1
992.6	80°	838.8	326.1	162.0	149.7	131.3	196.9	283.0	254.3	151.8	106.6
426.6	82.5°	336.4	137.4	94.3	84.1	71.8	135.4	223.6	205.1	112.8	67.7
133.3	85°	108.7	45.1	34.9	26.7	32.8	84.1	133.3	139.5	80.0	34.9
20.5	87.5°	14.4	6.2	6.2	8.2	6.2	14.4	41.0	39.0	22.6	4.1
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>
4719.2
4161.3
3367.6
2604.7
2126.8
1952.5
1893.0
1825.3
1731.0
1610.0
1478.7
1351.6
1251.1
1183.4
1132.1
1136.2
1099.3
1015.2
933.2
863.4
816.3
783.5
721.9
670.7
598.9
518.9
438.9
391.7
348.7
274.8
201.0
157.9
104.6
67.7
26.7
0.0
0.0

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