

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: P941344

Luminaire Tested: **GALN-SB4D-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941344  
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-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

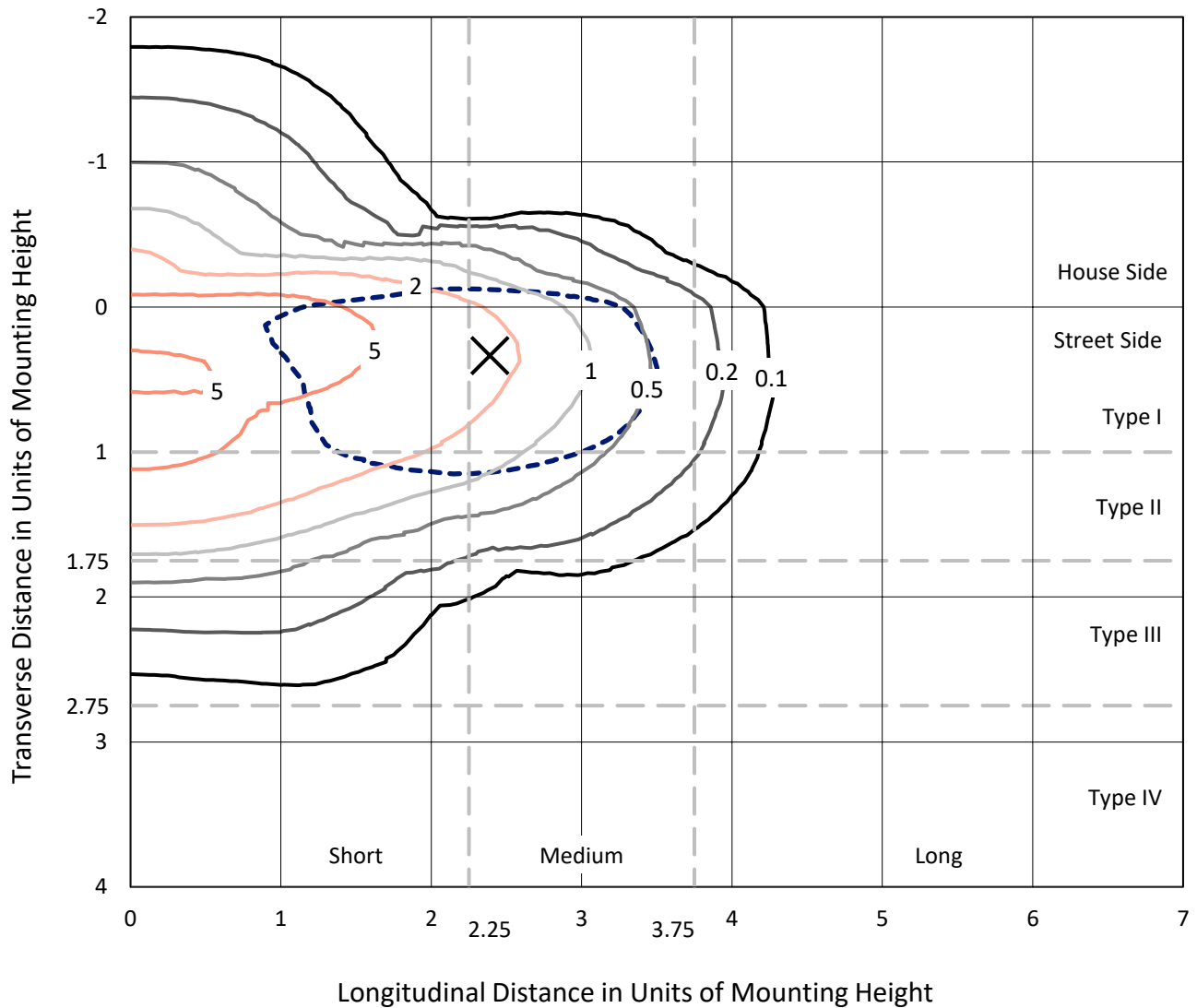
Lumens per Lamp: N/A  
Luminaire Lumens: 26760 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

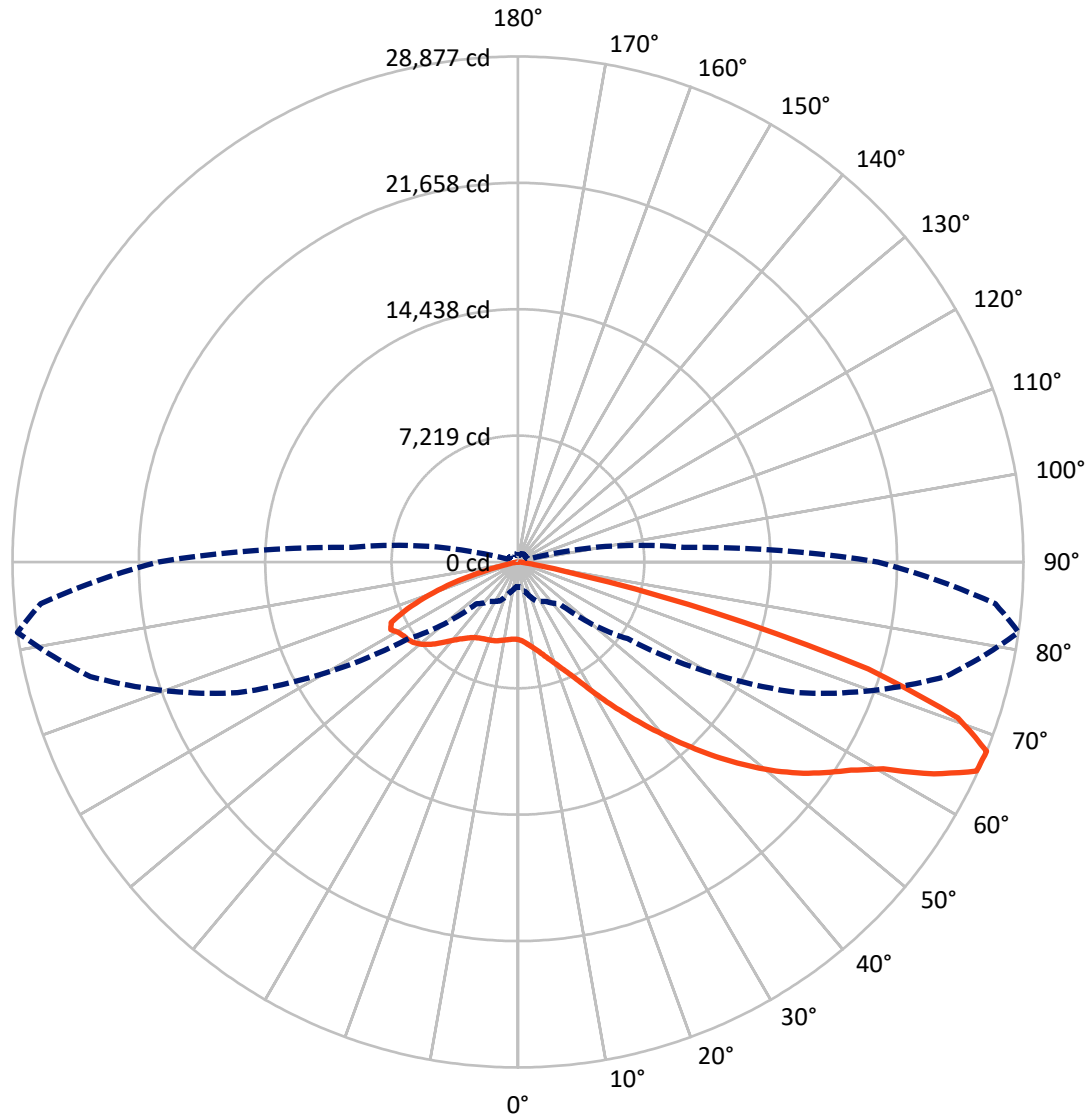
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4847.3	0.0	4847.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	21912.7	0.0	21912.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	26760.0	0.0	26760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.0	1.5
10°-20°	1026.4	3.8
20°-30°	1643.9	6.1
30°-40°	2906.9	10.9
40°-50°	5093.2	19.0
50°-60°	6792.9	25.4
60°-70°	6323.9	23.6
70°-80°	2427.1	9.1
80°-90°	150.8	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°	26760.0	100.0
0°-180°	26760.0	100.0

**Coefficient of Utilization**



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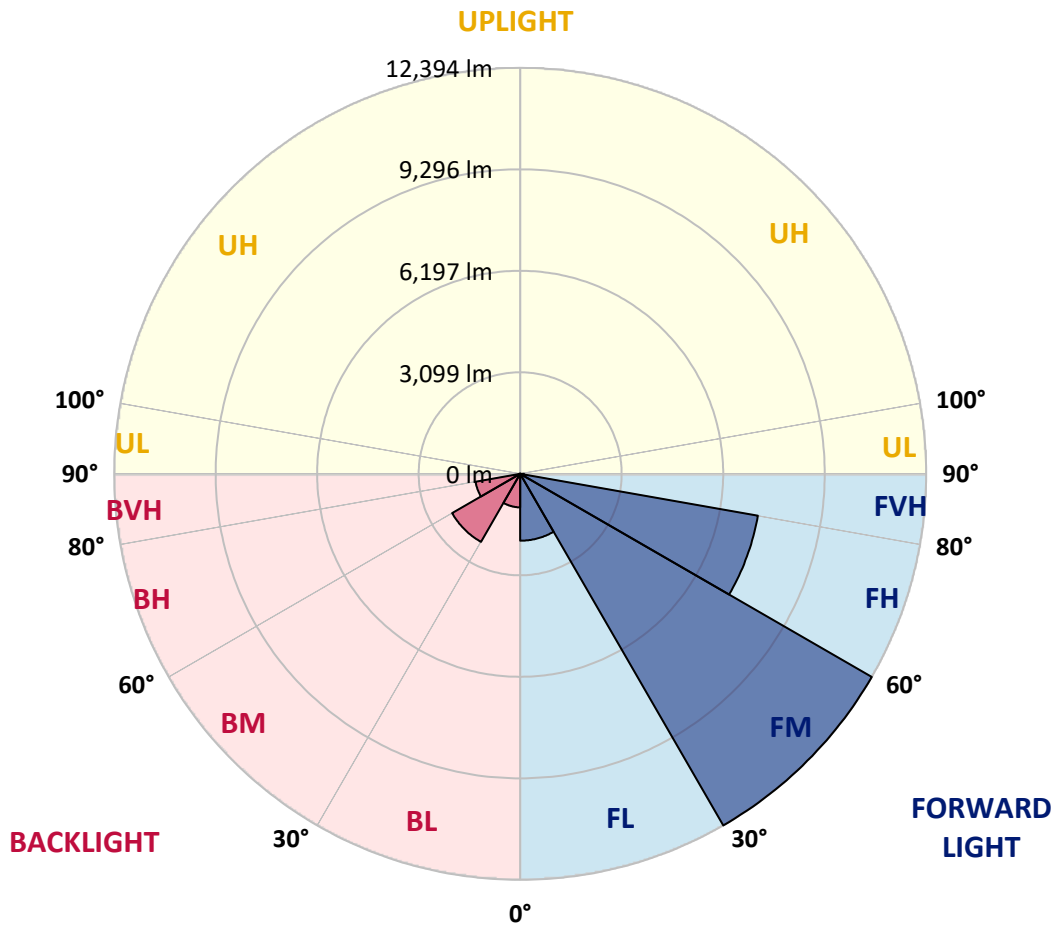
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.5	7.6			
FM (30°-60°)	12394.1	46.3			
FH (60°-80°)	7367.4	27.5			G3/7500
FVH (80°-90°)	109.6	0.4			G2/225
BL (0°-30°)	1023.7	3.8	B3/2500		
BM (30°-60°)	2398.9	9.0	B2/2500		
BH (60°-80°)	1383.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.2	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2
2.5°	4685.6	4712.6	4697.2	4689.5	4676.0	4656.7	4641.3	4593.1	4543.0	4510.3
5°	4780.0	4807.0	4805.1	4812.8	4822.4	4828.2	4824.3	4770.4	4699.1	4643.2
7.5°	4699.1	4729.9	4755.0	4793.5	4860.9	4932.2	4966.9	4955.3	4882.1	4805.1
10°	4469.8	4502.6	4562.3	4652.9	4795.4	4949.6	5078.7	5138.4	5092.1	5007.4
12.5°	4049.8	4082.6	4200.1	4396.6	4635.5	4903.3	5149.9	5309.9	5321.4	5236.6
15°	3577.8	3610.5	3735.8	3982.4	4346.5	4776.2	5188.5	5491.0	5593.1	5519.9
17.5°	3284.9	3313.8	3408.2	3606.7	3986.2	4521.9	5175.0	5683.6	5916.7	5858.9
20°	3196.3	3221.4	3265.7	3404.4	3720.4	4257.9	5086.4	5864.7	6265.5	6232.7
22.5°	3290.7	3313.8	3327.3	3389.0	3587.4	4084.5	4974.6	6049.7	6670.1	6673.9
25°	3508.4	3531.6	3516.1	3554.7	3641.4	4030.6	4932.2	6267.4	7178.7	7221.1
27.5°	3866.8	3868.7	3832.1	3830.2	3843.7	4111.5	4976.5	6500.5	7820.3	7899.3
30°	4585.4	4556.5	4415.9	4263.7	4194.3	4354.2	5099.8	6776.0	8577.5	8718.1
32.5°	5693.3	5650.9	5392.7	5028.6	4662.5	4745.3	5321.4	7090.1	9402.1	9656.4
35°	6895.5	6883.9	6614.2	6072.8	5433.2	5302.1	5681.7	7502.4	10301.8	10706.4
37.5°	8012.9	8007.2	7853.0	7215.3	6436.9	6078.6	6259.7	8041.8	11265.1	11850.8
40°	9034.1	9051.4	8897.3	8327.0	7542.8	7074.7	7045.8	8708.5	12336.4	13097.4
42.5°	9916.5	9935.7	9779.7	9357.7	8635.3	8176.7	8011.0	9525.4	13382.5	14436.4
45°	10515.7	10635.1	10612.0	10274.8	9756.6	9280.7	9170.9	10550.3	14575.1	15856.3
47.5°	10685.2	10795.0	10968.4	11014.7	10698.7	10230.5	10361.5	11785.3	15781.2	17278.2
50°	10267.1	10369.2	10729.5	11209.3	11428.9	11284.4	11519.5	13108.9	17016.2	18696.2
52.5°	9442.5	9546.6	10001.3	10760.4	11656.2	12110.9	12681.2	14413.3	18212.6	20039.1
55°	8249.9	8359.7	8943.5	9802.8	11222.7	12452.0	13650.3	15715.7	19308.9	21247.1
57.5°	6627.7	6708.6	7315.5	8517.7	10132.3	12112.9	14365.1	17137.6	20341.6	22433.9
60°	4319.6	4390.8	5096.0	6436.9	8325.1	10980.0	14507.7	18723.2	21713.4	23977.2
62.5°	2872.6	2920.8	3338.9	4323.4	5862.8	8804.8	13673.4	19989.0	23724.8	26662.9
65°	1971.0	2019.1	2437.2	3123.1	3787.8	5824.3	11274.8	19821.4	25547.4	28795.7
67.5°	1406.5	1446.9	1801.4	2448.8	2741.6	3383.2	7643.0	17679.0	25285.4	28876.7
70°	1007.6	1030.8	1323.6	1907.4	2179.0	2032.6	4250.2	13521.2	22139.2	26664.9
72.5°	705.2	712.9	919.0	1452.7	1755.2	1483.5	2023.0	9014.8	16744.5	20929.2
75°	477.8	487.4	618.5	1065.4	1408.4	1132.9	1071.2	4834.0	9829.8	11585.0
77.5°	292.9	296.7	398.8	728.3	1053.9	863.1	689.7	2048.0	3803.2	3733.9
80°	165.7	165.7	254.3	452.8	718.6	556.8	483.6	870.8	1204.2	1057.7
82.5°	92.5	94.4	185.0	281.3	475.9	329.5	265.9	402.7	520.2	460.5
85°	38.5	42.4	113.7	132.9	227.3	163.8	107.9	169.5	192.7	171.5
87.5°	3.9	5.8	34.7	25.0	27.0	32.8	15.4	32.8	27.0	27.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4433.2	0°	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2	4433.2
4498.7	2.5°	4462.1	4433.2	4360.0	4275.2	4163.5	4109.5	4036.3	3986.2	3943.9	3947.7
4610.5	5°	4548.8	4475.6	4311.8	4107.6	3853.3	3672.2	3479.5	3346.6	3238.7	3215.6
4764.6	7.5°	4668.3	4552.7	4265.6	3897.6	3468.0	3142.4	2851.4	2664.6	2531.6	2489.2
4951.5	10°	4822.4	4654.8	4205.9	3633.7	3015.2	2601.0	2288.9	2142.4	2051.9	2021.1
5171.1	12.5°	5001.6	4772.3	4126.9	3311.9	2549.0	2150.1	1951.7	1878.5	1849.6	1840.0
5440.9	15°	5227.0	4918.7	4007.4	2930.4	2154.0	1874.6	1789.9	1780.2	1784.1	1780.2
5764.5	17.5°	5494.8	5078.7	3812.8	2537.4	1888.1	1734.0	1703.2	1710.9	1720.5	1718.6
6126.8	20°	5787.7	5236.6	3564.3	2188.7	1707.0	1633.8	1616.5	1624.2	1631.9	1628.0
6544.8	22.5°	6121.0	5406.2	3288.8	1917.0	1585.6	1541.3	1522.1	1524.0	1524.0	1516.3
7074.7	25°	6519.8	5593.1	2999.8	1724.4	1493.2	1458.5	1435.4	1427.6	1416.1	1393.0
7718.2	27.5°	6995.7	5791.5	2722.4	1589.5	1419.9	1387.2	1360.2	1340.9	1312.1	1273.5
8490.8	30°	7531.3	6032.3	2487.3	1504.7	1362.1	1329.4	1298.6	1269.7	1227.3	1179.1
9378.9	32.5°	8161.3	6290.5	2315.8	1448.8	1310.1	1275.4	1238.8	1204.2	1157.9	1109.8
10376.9	35°	8912.7	6602.6	2215.6	1410.3	1269.7	1223.4	1183.0	1144.4	1109.8	1067.4
11461.7	37.5°	9727.7	6934.0	2184.8	1391.0	1242.7	1171.4	1125.2	1098.2	1094.3	1069.3
12635.0	40°	10619.7	7327.1	2207.9	1379.5	1213.8	1121.3	1071.2	1065.4	1075.1	1030.8
13889.2	42.5°	11563.8	7793.3	2246.5	1366.0	1173.3	1071.2	1023.1	1023.1	1015.3	953.7
15214.8	45°	12584.9	8330.8	2285.0	1333.2	1125.2	1021.1	984.5	971.0	938.3	878.6
16548.0	47.5°	13613.7	8878.0	2313.9	1273.5	1067.4	978.7	946.0	915.2	867.0	813.0
17856.2	50°	14590.5	9369.3	2283.1	1184.9	1001.9	938.3	903.6	861.2	809.2	772.6
19095.0	52.5°	15463.3	9795.1	2152.1	1080.9	932.5	895.9	865.1	820.8	778.4	739.8
20212.5	55°	16222.4	10140.0	1920.9	982.6	870.8	859.3	828.5	772.6	714.8	682.0
21320.3	57.5°	16950.7	10402.0	1631.9	901.7	815.0	818.8	772.6	722.5	668.5	633.9
22813.5	60°	17919.8	10752.6	1339.0	826.5	755.2	766.8	716.7	680.1	612.7	568.4
25374.0	62.5°	19468.8	11297.9	1063.5	734.1	685.9	689.7	668.5	624.2	543.3	491.3
27271.8	65°	20698.0	11097.5	838.1	633.9	606.9	612.7	612.7	564.5	477.8	418.1
27373.9	67.5°	20559.3	9502.2	668.5	535.6	531.8	535.6	549.1	508.6	423.9	375.7
25289.2	70°	18939.0	7558.3	535.6	445.1	462.4	452.8	491.3	464.3	381.5	333.3
19605.6	72.5°	15453.7	5444.7	408.5	368.0	354.5	369.9	443.1	418.1	317.9	264.0
10384.7	75°	9030.2	2905.4	304.4	290.9	256.2	308.3	393.0	356.4	242.8	194.6
3182.8	77.5°	2940.1	1013.4	223.5	213.9	190.7	248.5	335.2	300.6	198.4	154.1
932.5	80°	788.0	306.3	152.2	140.6	123.3	185.0	265.9	238.9	142.6	100.2
400.7	82.5°	316.0	129.1	88.6	79.0	67.4	127.2	210.0	192.7	106.0	63.6
125.2	85°	102.1	42.4	32.8	25.0	30.8	79.0	125.2	131.0	75.1	32.8
19.3	87.5°	13.5	5.8	5.8	7.7	5.8	13.5	38.5	36.6	21.2	3.9
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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180°
4433.2
3909.2
3163.6
2446.8
1997.9
1834.2
1778.3
1714.7
1626.1
1512.4
1389.1
1269.7
1175.3
1111.7
1063.5
1067.4
1032.7
953.7
876.6
811.1
766.8
736.0
678.2
630.0
562.6
487.4
412.3
368.0
327.5
258.2
188.8
148.4
98.3
63.6
25.0
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