

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: P951795

Luminaire Tested: **GALN-SB5D-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

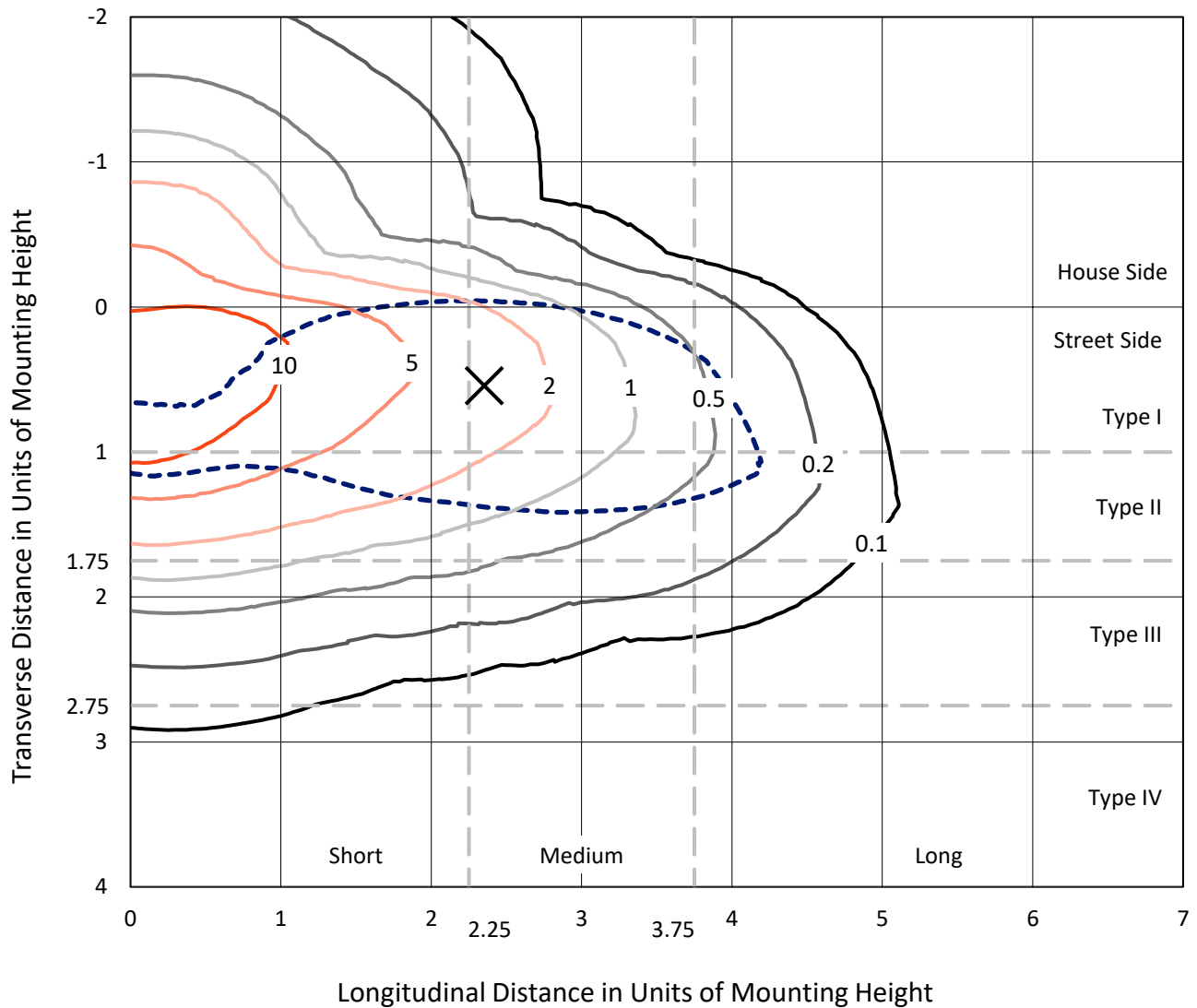
Lumens per Lamp: N/A  
Luminaire Lumens: 47046 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

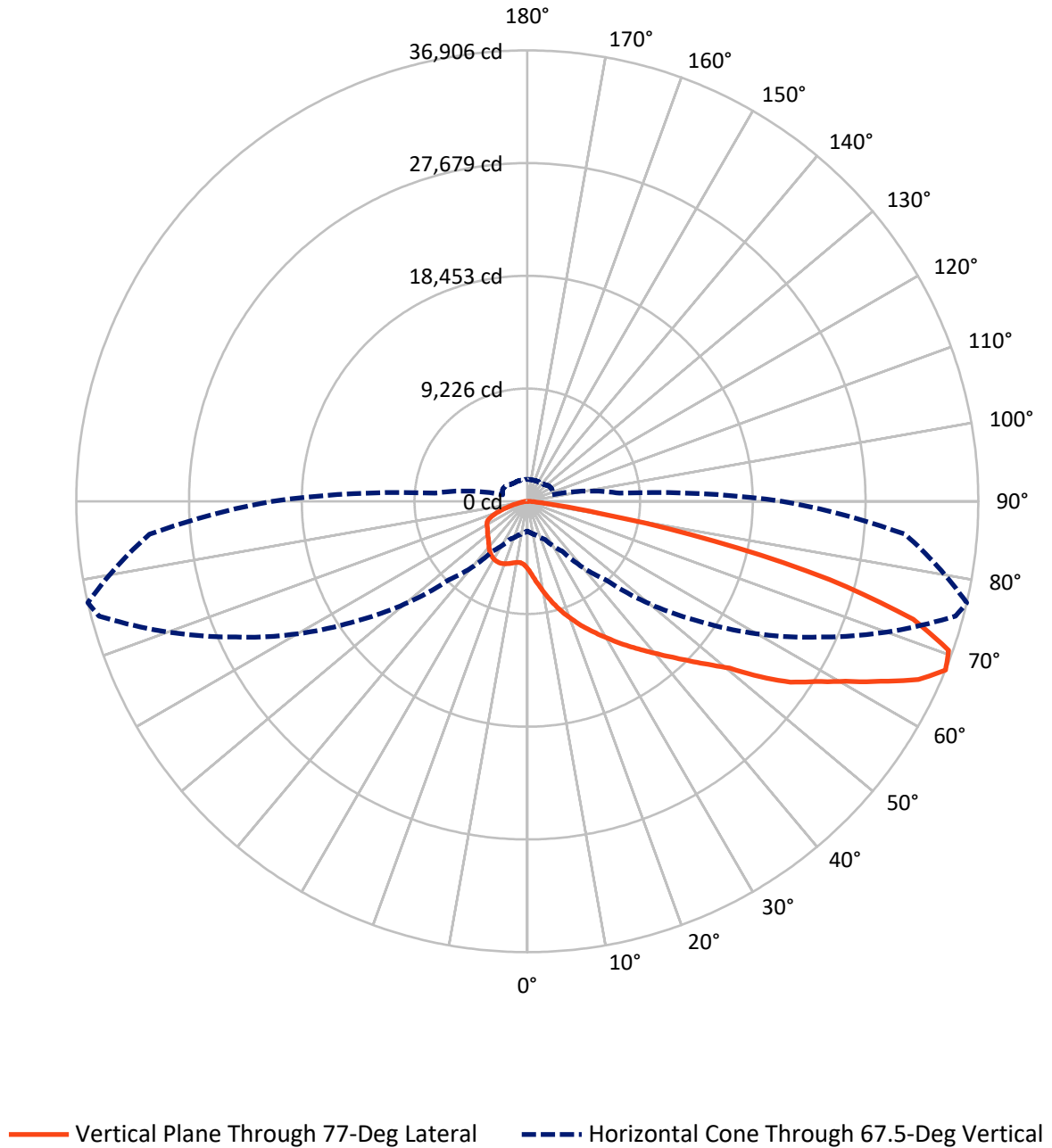
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	8899.2	0.0	8899.2
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	38146.8	0.0	38146.8
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	47046.0	0.0	47046.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.7	1.3
10°-20°	2125.6	4.5
20°-30°	4013.4	8.5
30°-40°	6465.5	13.7
40°-50°	8843.6	18.8
50°-60°	9975.6	21.2
60°-70°	9311.0	19.8
70°-80°	5104.0	10.8
80°-90°	615.7	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°	47046.0	100.0
0°-180°	47046.0	100.0

**Coefficient of Utilization**



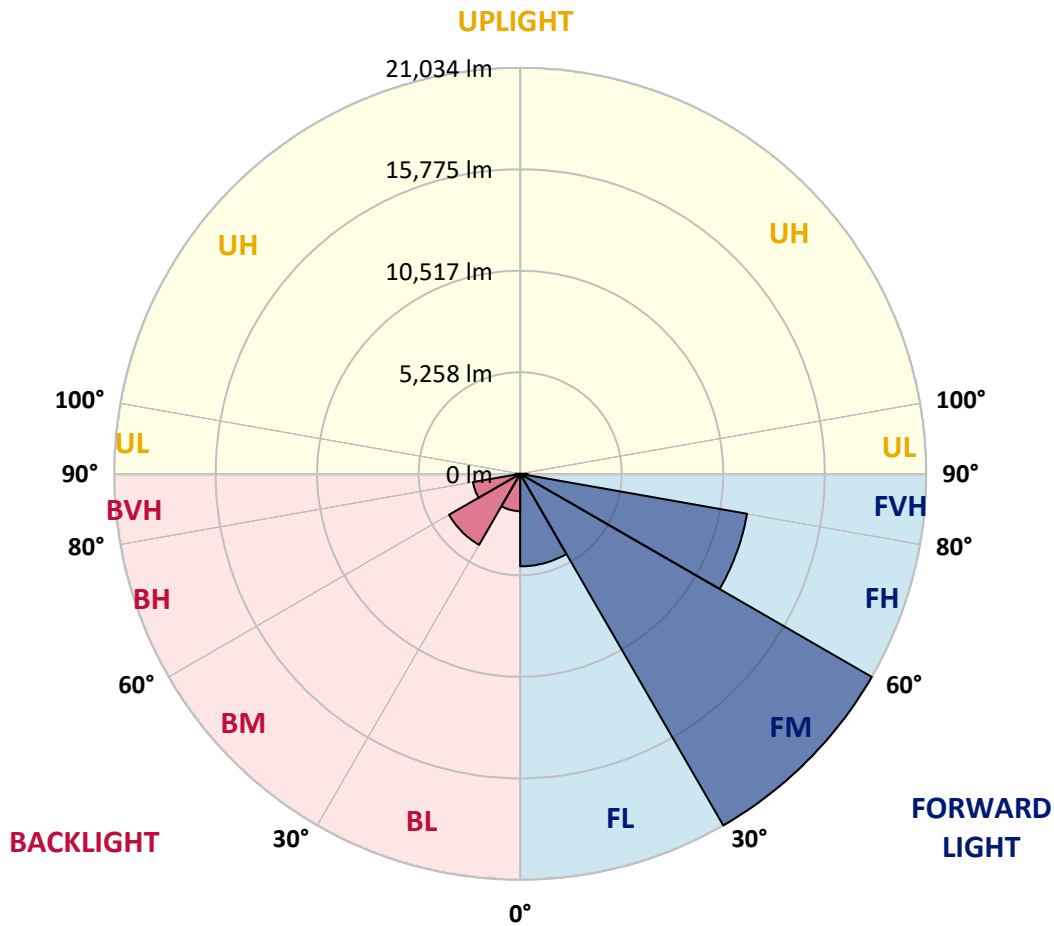
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4795.7	10.2			
FM (30°-60°)	21033.8	44.7			
FH (60°-80°)	11932.3	25.4			G4/12000
FVH (80°-90°)	385.0	0.8			G3/500
BL (0°-30°)	1934.9	4.1	B3/2500		
BM (30°-60°)	4250.9	9.0	B3/5000		
BH (60°-80°)	2482.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	230.6	0.5			G3/500
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°	77°
0°	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0
2.5°	6911.5	6960.1	6899.3	6899.3	6695.3	6588.5	6384.5	6229.1	5949.8	5901.2
5°	8169.4	8230.2	8145.2	8108.7	7868.3	7647.3	7304.9	6967.3	6469.5	6418.5
7.5°	9143.3	9221.0	9145.7	9106.8	8893.1	8645.4	8244.7	7773.6	7071.8	6972.2
10°	9937.4	9949.5	9925.2	9939.8	9772.2	9568.2	9157.8	8609.0	7732.3	7596.3
12.5°	10386.7	10442.5	10491.1	10578.5	10549.4	10423.1	10053.9	9398.3	8431.7	8256.9
15°	10597.9	10695.1	10804.4	11005.9	11168.6	11200.2	10918.5	10245.8	9143.3	8932.0
17.5°	10673.2	10765.5	10937.9	11229.3	11579.0	11814.6	11688.3	11069.1	9847.5	9604.7
20°	11054.5	11081.2	11185.6	11462.5	11841.3	12232.3	12327.0	11860.7	10544.5	10270.1
22.5°	11870.5	11817.0	11846.2	11972.5	12244.4	12623.3	12839.4	12560.1	11260.9	10945.2
25°	13218.3	13062.8	12907.4	12761.7	12900.1	13113.8	13359.1	13259.6	12011.3	11610.6
27.5°	14920.6	14731.2	14388.8	13910.4	13742.8	13818.1	13927.4	13908.0	12705.9	12300.3
30°	16596.3	16375.3	15967.3	15275.2	14833.2	14634.1	14551.5	14495.7	13461.1	13028.8
32.5°	17934.4	17759.5	17358.8	16584.2	15943.0	15603.0	15328.6	15129.5	14250.4	13818.1
35°	19104.9	18942.2	18483.2	17638.1	16941.1	16579.3	16219.9	15794.9	15071.2	14634.1
37.5°	20173.5	20010.8	19381.8	18502.7	17800.8	17550.7	17230.1	16508.9	15894.5	15481.6
40°	20848.6	20812.2	20224.5	19228.8	18500.2	18376.4	18269.5	17337.0	16807.6	16423.9
42.5°	21021.0	21101.1	20634.9	19816.5	19121.9	19022.4	19272.5	18274.4	17832.4	17465.7
45°	20605.7	20836.4	20530.5	19974.3	19563.9	19510.5	20161.3	19299.2	18966.5	18631.4
47.5°	19554.2	19945.2	19818.9	19741.2	19682.9	19913.6	20943.3	20387.2	20251.2	19959.8
50°	17431.7	18172.4	18393.4	18883.9	19447.3	20226.9	21654.8	21574.7	21752.0	21458.1
52.5°	13762.3	14782.2	16064.5	17293.3	18723.7	20122.5	22436.8	23279.5	24027.5	23867.2
55°	11360.5	11819.5	12805.4	15059.1	17320.0	19682.9	22788.9	24656.5	26286.0	26142.7
57.5°	9514.8	9925.2	10532.4	12414.4	15197.5	18684.8	23007.5	25496.7	27832.9	27818.4
60°	7535.6	7970.3	8592.0	9925.2	12718.0	16960.6	22958.9	26453.5	29807.3	29928.7
62.5°	5301.4	5779.8	6469.5	7712.9	10185.1	14726.4	21968.1	27145.7	32131.3	32461.6
65°	3484.9	3800.6	4320.3	5393.7	7589.0	11853.5	20076.3	27235.5	34618.1	35176.7
67.5°	2443.1	2564.5	2870.5	3453.3	5002.7	9089.8	17062.6	26305.4	36276.8	36905.8
70°	1906.4	1967.1	2122.5	2355.6	3142.5	6112.5	13075.0	23886.6	35922.2	36577.9
72.5°	1646.5	1704.8	1763.1	1792.2	2107.9	3773.9	8856.7	19971.9	32583.0	33027.5
75°	1493.5	1508.1	1556.7	1546.9	1607.7	2447.9	5112.0	14551.5	25708.0	25555.0
77.5°	1255.5	1275.0	1355.1	1343.0	1428.0	1673.2	2654.3	9391.0	16666.7	15627.3
80°	1063.7	1073.4	1160.8	1146.2	1241.0	1211.8	1355.1	4786.6	7069.3	5988.7
82.5°	369.1	456.6	886.4	913.1	947.1	733.4	782.0	1952.5	2158.9	1653.8
85°	179.7	191.9	451.7	641.1	638.7	369.1	381.3	697.0	680.0	534.3
87.5°	29.1	36.4	53.4	250.1	199.1	97.1	131.1	136.0	140.9	121.4
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°
5520.0	0°	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0	5520.0
5716.7	2.5°	5580.7	5459.2	5204.3	4968.7	4784.1	4606.8	4507.3	4422.3	4373.7	4364.0
5983.8	5°	5731.2	5481.1	5017.3	4626.3	4371.3	4181.9	4082.3	4019.2	3987.6	3968.2
6343.2	7.5°	5947.4	5580.7	4920.1	4475.7	4208.6	4072.6	4021.6	4011.9	4009.4	4011.9
6777.9	10°	6246.1	5743.4	4910.4	4439.3	4215.9	4140.6	4138.1	4140.6	4150.3	4152.7
7251.5	12.5°	6569.1	5910.9	4949.3	4470.8	4308.1	4266.9	4259.6	4257.1	4264.4	4269.3
7729.9	15°	6921.2	6131.9	5014.8	4538.8	4410.1	4366.4	4359.1	4344.6	4342.1	4339.7
8232.6	17.5°	7283.0	6350.5	5087.7	4611.7	4475.7	4415.0	4388.3	4354.3	4327.6	4320.3
8752.3	20°	7649.7	6566.6	5138.7	4648.1	4480.6	4395.6	4342.1	4283.9	4237.7	4211.0
9276.8	22.5°	8040.7	6792.5	5170.3	4638.4	4436.9	4320.3	4223.1	4155.1	4084.7	4038.6
9806.2	25°	8422.0	6989.2	5167.8	4587.4	4351.9	4203.7	4079.9	3992.4	3895.3	3846.7
10352.7	27.5°	8788.7	7166.5	5107.1	4497.6	4230.4	4065.3	3917.2	3812.7	3718.0	3671.9
10903.9	30°	9167.5	7314.6	5012.4	4366.4	4087.1	3905.0	3742.3	3652.4	3567.5	3523.7
11486.8	32.5°	9544.0	7450.6	4878.8	4203.7	3922.0	3747.2	3586.9	3504.3	3453.3	3453.3
12113.3	35°	9942.2	7545.3	4701.6	4014.3	3747.2	3579.6	3453.3	3404.7	3399.9	3370.7
12776.3	37.5°	10362.4	7606.0	4485.4	3820.0	3574.7	3416.9	3378.0	3319.7	3271.2	3208.0
13504.8	40°	10804.4	7666.7	4225.6	3618.4	3392.6	3305.2	3288.2	3210.5	3072.0	2916.6
14330.5	42.5°	11341.0	7708.0	3956.0	3416.9	3200.7	3171.6	3195.9	3062.3	2841.3	2724.8
15326.2	45°	11962.7	7776.0	3708.3	3217.7	3004.0	3004.0	3106.0	2931.2	2749.1	2676.2
16462.7	47.5°	12769.0	7933.9	3477.6	2999.2	2821.9	2870.5	2906.9	2773.3	2671.3	2581.5
17847.0	50°	13934.7	8312.7	3239.6	2778.2	2683.5	2780.6	2729.6	2651.9	2532.9	2460.1
20047.2	52.5°	15382.1	8536.1	3028.3	2579.1	2564.5	2661.6	2588.8	2515.9	2426.1	2328.9
21715.6	55°	16368.0	8577.4	2851.0	2433.3	2484.3	2474.6	2447.9	2382.3	2333.8	2205.1
23362.1	57.5°	17470.6	8660.0	2705.3	2345.9	2433.3	2326.5	2316.8	2260.9	2197.8	2110.4
25370.4	60°	18789.2	8788.7	2579.1	2311.9	2389.6	2229.4	2180.8	2158.9	2095.8	2052.1
27786.8	62.5°	20226.9	8905.3	2450.3	2316.8	2338.6	2134.6	2061.8	2054.5	2015.6	2001.1
30055.0	65°	21208.0	8587.1	2290.1	2311.9	2258.5	2037.5	1945.2	1942.8	1911.2	1906.4
31038.5	67.5°	20865.6	7579.3	2073.9	2243.9	2175.9	1940.4	1838.4	1828.7	1787.4	1789.8
30011.3	70°	19151.1	6141.7	1775.2	2076.4	2073.9	1852.9	1726.7	1695.1	1639.2	1648.9
26094.1	72.5°	15935.8	4551.0	1374.5	1797.1	1911.2	1772.8	1597.9	1546.9	1476.5	1486.2
19262.8	75°	11508.6	3093.9	1000.5	1367.2	1663.5	1678.1	1471.7	1384.2	1299.2	1313.8
10721.8	77.5°	5889.1	1753.4	735.8	942.3	1306.5	1525.1	1357.5	1241.0	1221.5	1357.5
3091.5	80°	1920.9	879.1	510.0	660.5	857.3	1248.2	1190.0	1056.4	1051.5	1083.1
648.4	82.5°	573.1	371.6	327.8	434.7	473.6	956.8	1027.3	799.0	687.3	723.7
216.1	85°	196.7	179.7	187.0	216.1	225.8	561.0	718.8	529.4	500.3	551.3
48.6	87.5°	46.1	63.1	53.4	48.6	48.6	136.0	279.3	221.0	306.0	204.0
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>
5520.0
4364.0
3965.7
4019.2
4155.1
4271.7
4337.3
4327.6
4220.7
4041.0
3846.7
3669.4
3521.3
3455.7
3363.5
3198.3
2894.8
2727.2
2688.3
2579.1
2452.8
2309.5
2207.5
2081.2
2064.2
2001.1
1903.9
1789.8
1658.7
1483.8
1318.7
1338.1
930.1
748.0
544.0
196.7
0.0

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