

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: P941684

Luminaire Tested: **GALN-SB5B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941684
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-SB5B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA 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: 18664 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

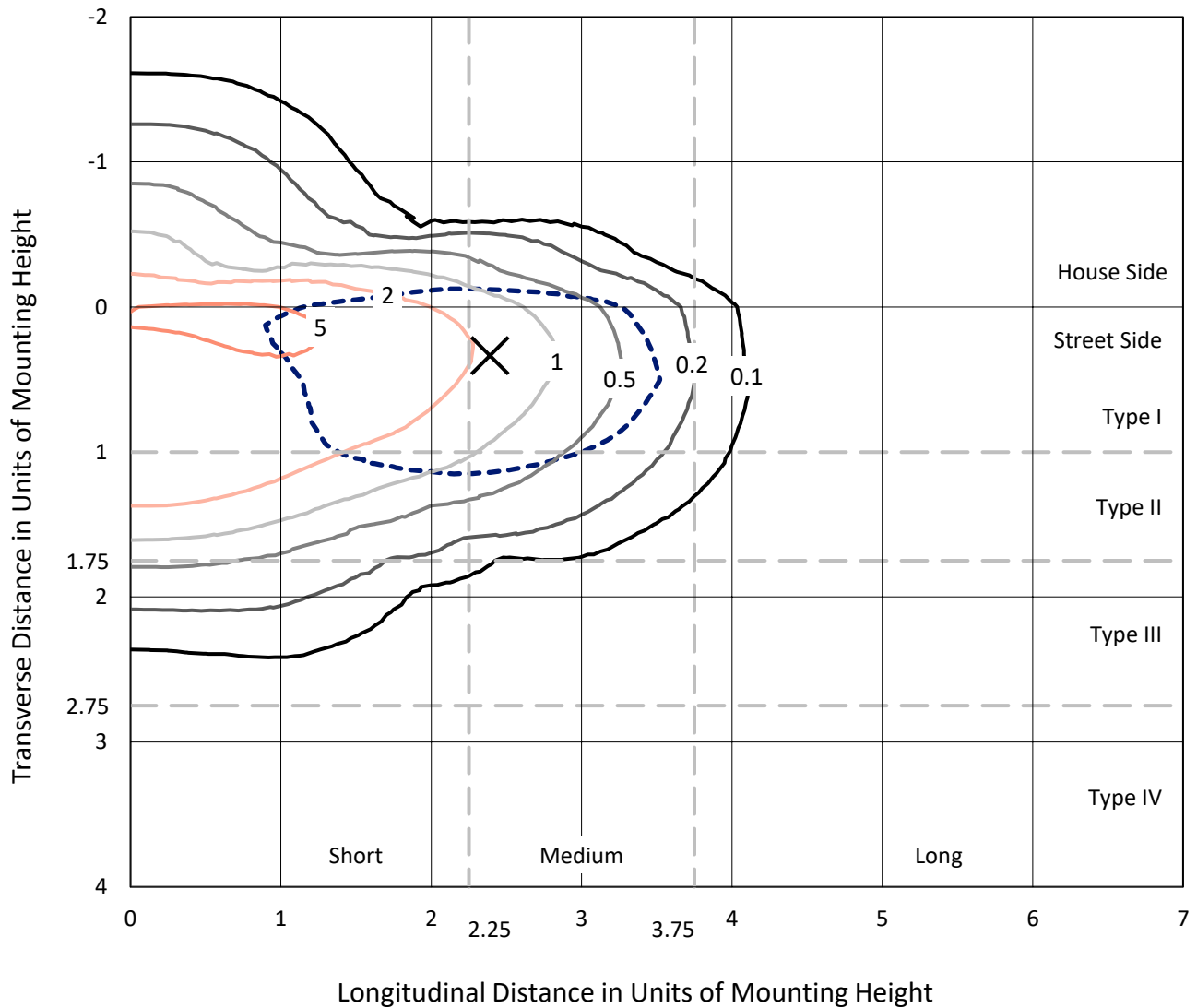
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

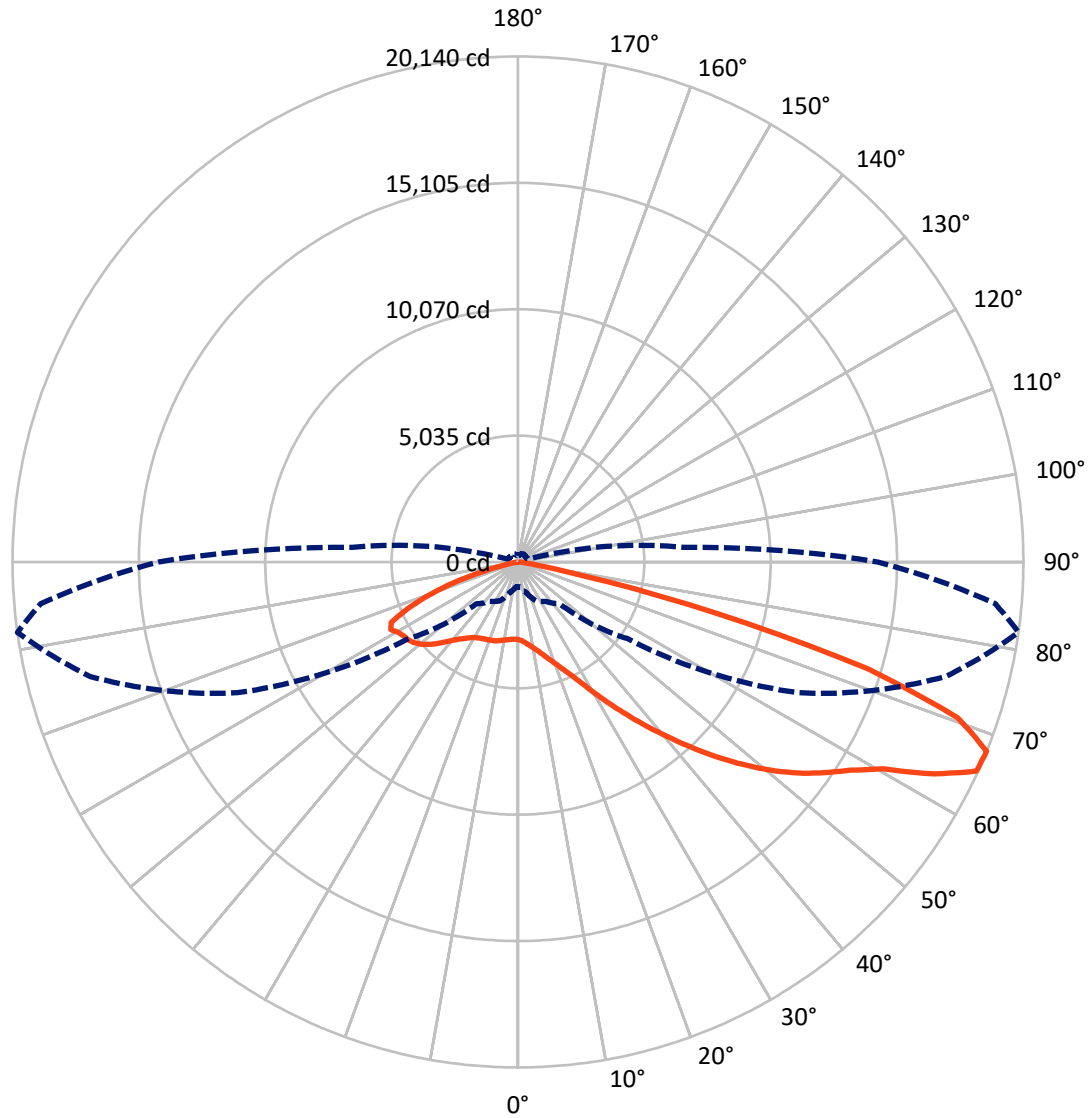
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	3380.8	0.0	3380.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15283.2	0.0	15283.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	18664.0	0.0	18664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	1.5
10°-20°	715.8	3.8
20°-30°	1146.6	6.1
30°-40°	2027.5	10.9
40°-50°	3552.3	19.0
50°-60°	4737.8	25.4
60°-70°	4410.6	23.6
70°-80°	1692.8	9.1
80°-90°	105.1	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°	18664.0	100.0
0°-180°	18664.0	100.0

Coefficient of Utilization



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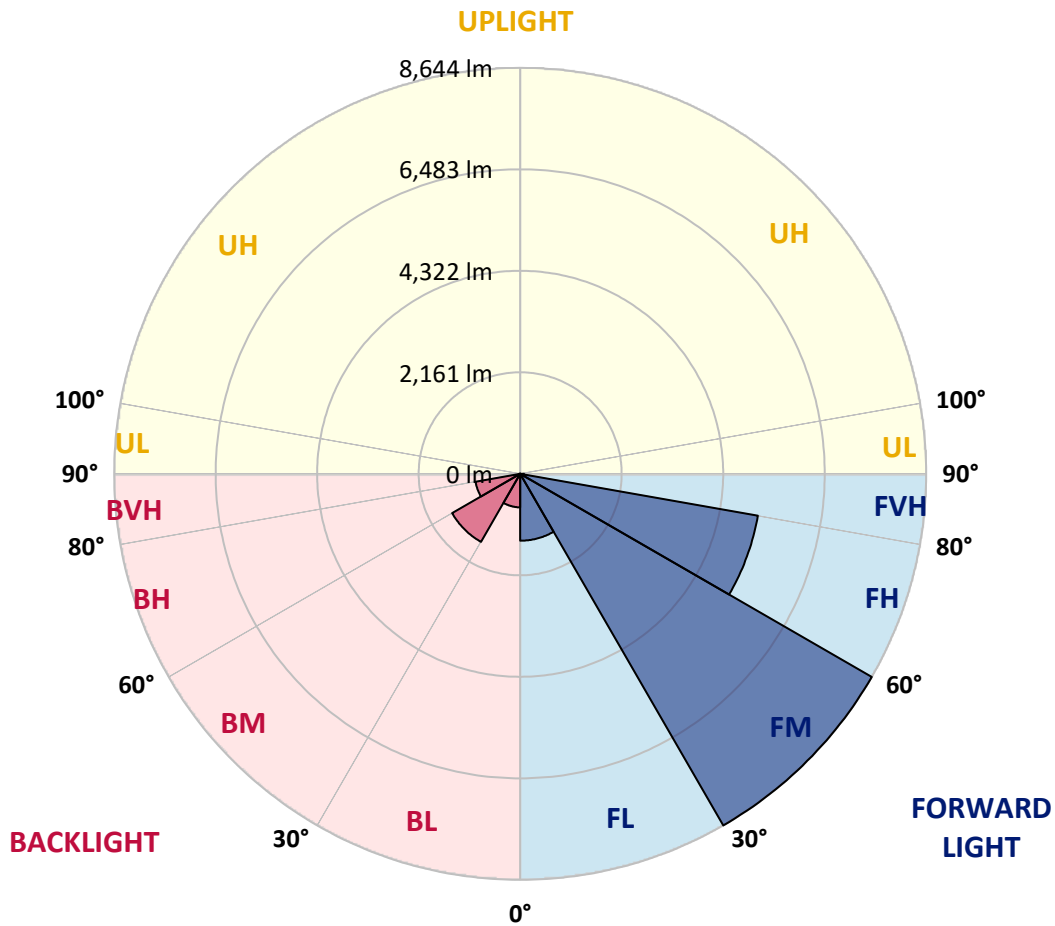
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.9	7.6			
FM (30°-60°)	8644.4	46.3			
FH (60°-80°)	5138.5	27.5			G3/7500
FVH (80°-90°)	76.4	0.4			G1/100
BL (0°-30°)	714.0	3.8	B2/1000		
BM (30°-60°)	1673.1	9.0	B2/2500		
BH (60°-80°)	965.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	28.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
2.5°	3268.0	3286.8	3276.1	3270.7	3261.3	3247.9	3237.1	3203.5	3168.6	3145.7
5°	3333.9	3352.7	3351.3	3356.7	3363.4	3367.5	3364.8	3327.2	3277.4	3238.5
7.5°	3277.4	3298.9	3316.4	3343.3	3390.3	3440.0	3464.2	3456.2	3405.1	3351.3
10°	3117.5	3140.4	3182.0	3245.2	3344.6	3452.1	3542.2	3583.8	3551.6	3492.4
12.5°	2824.6	2847.4	2929.4	3066.5	3233.1	3419.9	3591.9	3703.4	3711.5	3652.3
15°	2495.4	2518.2	2605.6	2777.6	3031.5	3331.2	3618.7	3829.7	3900.9	3849.9
17.5°	2291.1	2311.3	2377.1	2515.5	2780.2	3153.8	3609.3	3964.1	4126.7	4086.4
20°	2229.3	2246.8	2277.7	2374.4	2594.8	2969.7	3547.5	4090.4	4369.9	4347.1
22.5°	2295.1	2311.3	2320.7	2363.7	2502.1	2848.8	3469.6	4219.4	4652.1	4654.8
25°	2447.0	2463.1	2452.4	2479.2	2539.7	2811.1	3440.0	4371.3	5006.9	5036.4
27.5°	2696.9	2698.3	2672.7	2671.4	2680.8	2867.6	3470.9	4533.8	5454.3	5509.4
30°	3198.2	3178.0	3079.9	2973.7	2925.4	3036.9	3556.9	4726.0	5982.4	6080.5
32.5°	3970.8	3941.2	3761.2	3507.2	3251.9	3309.7	3711.5	4945.0	6557.6	6734.9
35°	4809.3	4801.3	4613.1	4235.5	3789.4	3698.0	3962.8	5232.6	7185.1	7467.3
37.5°	5588.7	5584.7	5477.2	5032.4	4489.5	4239.6	4365.9	5608.9	7857.0	8265.5
40°	6300.9	6313.0	6205.5	5807.7	5260.8	4934.3	4914.1	6073.8	8604.1	9134.9
42.5°	6916.3	6929.8	6820.9	6526.6	6022.7	5702.9	5587.4	6643.6	9333.8	10068.8
45°	7334.2	7417.6	7401.4	7166.3	6804.8	6472.9	6396.3	7358.4	10165.5	11059.1
47.5°	7452.5	7529.1	7650.0	7682.3	7461.9	7135.4	7226.7	8219.8	11006.7	12050.8
50°	7160.9	7232.1	7483.4	7818.0	7971.2	7870.4	8034.3	9142.9	11868.1	13039.9
52.5°	6585.8	6658.3	6975.5	7504.9	8129.8	8446.9	8844.6	10052.7	12702.6	13976.5
55°	5754.0	5830.6	6237.7	6837.1	7827.4	8684.7	9520.5	10961.1	13467.2	14819.0
57.5°	4622.5	4679.0	5102.3	5940.8	7066.8	8448.2	10019.1	11952.8	14187.4	15646.7
60°	3012.7	3062.4	3554.2	4489.5	5806.4	7658.1	10118.5	13058.7	15144.2	16723.1
62.5°	2003.5	2037.1	2328.7	3015.4	4089.1	6141.0	9536.7	13941.5	16547.1	18596.3
65°	1374.7	1408.3	1699.9	2178.2	2641.8	4062.2	7863.7	13824.6	17818.3	20083.8
67.5°	980.9	1009.2	1256.4	1707.9	1912.2	2359.6	5330.7	12330.3	17635.5	20140.3
70°	702.8	718.9	923.2	1330.3	1519.8	1417.7	2964.3	9430.5	15441.2	18597.6
72.5°	491.8	497.2	641.0	1013.2	1224.2	1034.7	1410.9	6287.5	11678.6	14597.3
75°	333.3	340.0	431.3	743.1	982.3	790.1	747.1	3371.5	6855.9	8080.0
77.5°	204.3	206.9	278.2	507.9	735.0	602.0	481.1	1428.4	2652.6	2604.2
80°	115.6	115.6	177.4	315.8	501.2	388.3	337.3	607.4	839.9	737.7
82.5°	64.5	65.8	129.0	196.2	331.9	229.8	185.4	280.8	362.8	321.2
85°	26.9	29.6	79.3	92.7	158.6	114.2	75.3	118.3	134.4	119.6
87.5°	2.7	4.0	24.2	17.5	18.8	22.8	10.8	22.8	18.8	18.8
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°
3092.0	0°	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0	3092.0
3137.7	2.5°	3112.1	3092.0	3040.9	2981.8	2903.9	2866.2	2815.2	2780.2	2750.7	2753.4
3215.6	5°	3172.6	3121.6	3007.3	2864.9	2687.5	2561.2	2426.8	2334.1	2258.9	2242.7
3323.1	7.5°	3255.9	3175.3	2975.1	2718.4	2418.8	2191.7	1988.8	1858.4	1765.7	1736.1
3453.5	10°	3363.4	3246.5	2933.4	2534.3	2103.0	1814.1	1596.4	1494.3	1431.1	1409.6
3606.7	12.5°	3488.4	3328.5	2878.3	2309.9	1777.8	1499.6	1361.2	1310.2	1290.0	1283.3
3794.8	15°	3645.6	3430.6	2795.0	2043.9	1502.3	1307.5	1248.4	1241.6	1244.3	1241.6
4020.5	17.5°	3832.4	3542.2	2659.3	1769.7	1316.9	1209.4	1187.9	1193.3	1200.0	1198.6
4273.2	20°	4036.7	3652.3	2486.0	1526.5	1190.6	1139.5	1127.4	1132.8	1138.2	1135.5
4564.8	22.5°	4269.1	3770.6	2293.8	1337.0	1105.9	1075.0	1061.6	1062.9	1062.9	1057.5
4934.3	25°	4547.3	3900.9	2092.2	1202.7	1041.4	1017.2	1001.1	995.7	987.7	971.5
5383.1	27.5°	4879.2	4039.3	1898.7	1108.6	990.4	967.5	948.7	935.3	915.1	888.2
5922.0	30°	5252.8	4207.3	1734.8	1049.5	950.0	927.2	905.7	885.5	856.0	822.4
6541.4	32.5°	5692.2	4387.4	1615.2	1010.5	913.8	889.6	864.0	839.9	807.6	774.0
7237.5	35°	6216.2	4605.1	1545.3	983.6	885.5	853.3	825.1	798.2	774.0	744.4
7994.0	37.5°	6784.6	4836.2	1523.8	970.2	866.7	817.0	784.8	765.9	763.3	745.8
8812.4	40°	7406.8	5110.3	1539.9	962.1	846.6	782.1	747.1	743.1	749.8	718.9
9687.2	42.5°	8065.3	5435.5	1566.8	952.7	818.4	747.1	713.5	713.5	708.2	665.2
10611.7	45°	8777.4	5810.4	1593.7	929.9	784.8	712.2	686.7	677.3	654.4	612.8
11541.6	47.5°	9495.0	6192.0	1613.9	888.2	744.4	682.6	659.8	638.3	604.7	567.1
12454.0	50°	10176.3	6534.7	1592.4	826.4	698.8	654.4	630.2	600.7	564.4	538.8
13318.0	52.5°	10785.0	6831.7	1501.0	753.8	650.4	624.8	603.3	572.4	542.9	516.0
14097.4	55°	11314.5	7072.2	1339.7	685.3	607.4	599.3	577.8	538.8	498.5	475.7
14870.1	57.5°	11822.4	7255.0	1138.2	628.9	568.4	571.1	538.8	503.9	466.3	442.1
15911.5	60°	12498.3	7499.5	933.9	576.5	526.8	534.8	499.9	474.3	427.3	396.4
17697.3	62.5°	13578.7	7879.8	741.8	512.0	478.4	481.1	466.3	435.4	378.9	342.7
19020.9	65°	14436.0	7740.1	584.5	442.1	423.3	427.3	427.3	393.7	333.3	291.6
19092.2	67.5°	14339.3	6627.4	466.3	373.6	370.9	373.6	383.0	354.8	295.6	262.0
17638.2	70°	13209.2	5271.6	373.6	310.4	322.5	315.8	342.7	323.8	266.1	232.5
13674.1	72.5°	10778.3	3797.5	284.9	256.7	247.3	258.0	309.1	291.6	221.7	184.1
7242.9	75°	6298.2	2026.4	212.3	202.9	178.7	215.0	274.1	248.6	169.3	135.7
2219.9	77.5°	2050.6	706.8	155.9	149.2	133.0	173.3	233.8	209.6	138.4	107.5
650.4	80°	549.6	213.7	106.2	98.1	86.0	129.0	185.4	166.6	99.4	69.9
279.5	82.5°	220.4	90.0	61.8	55.1	47.0	88.7	146.5	134.4	73.9	44.3
87.3	85°	71.2	29.6	22.8	17.5	21.5	55.1	87.3	91.4	52.4	22.8
13.4	87.5°	9.4	4.0	4.0	5.4	4.0	9.4	26.9	25.5	14.8	2.7
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°
3092.0
2726.5
2206.5
1706.6
1393.5
1279.3
1240.3
1195.9
1134.1
1054.9
968.9
885.5
819.7
775.3
741.8
744.4
720.3
665.2
611.4
565.7
534.8
513.3
473.0
439.4
392.4
340.0
287.6
256.7
228.4
180.1
131.7
103.5
68.5
44.3
17.5
0.0
0.0

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