

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: P951829

Luminaire Tested: **GALN-SB5D-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951829
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-SB5D-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48871 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

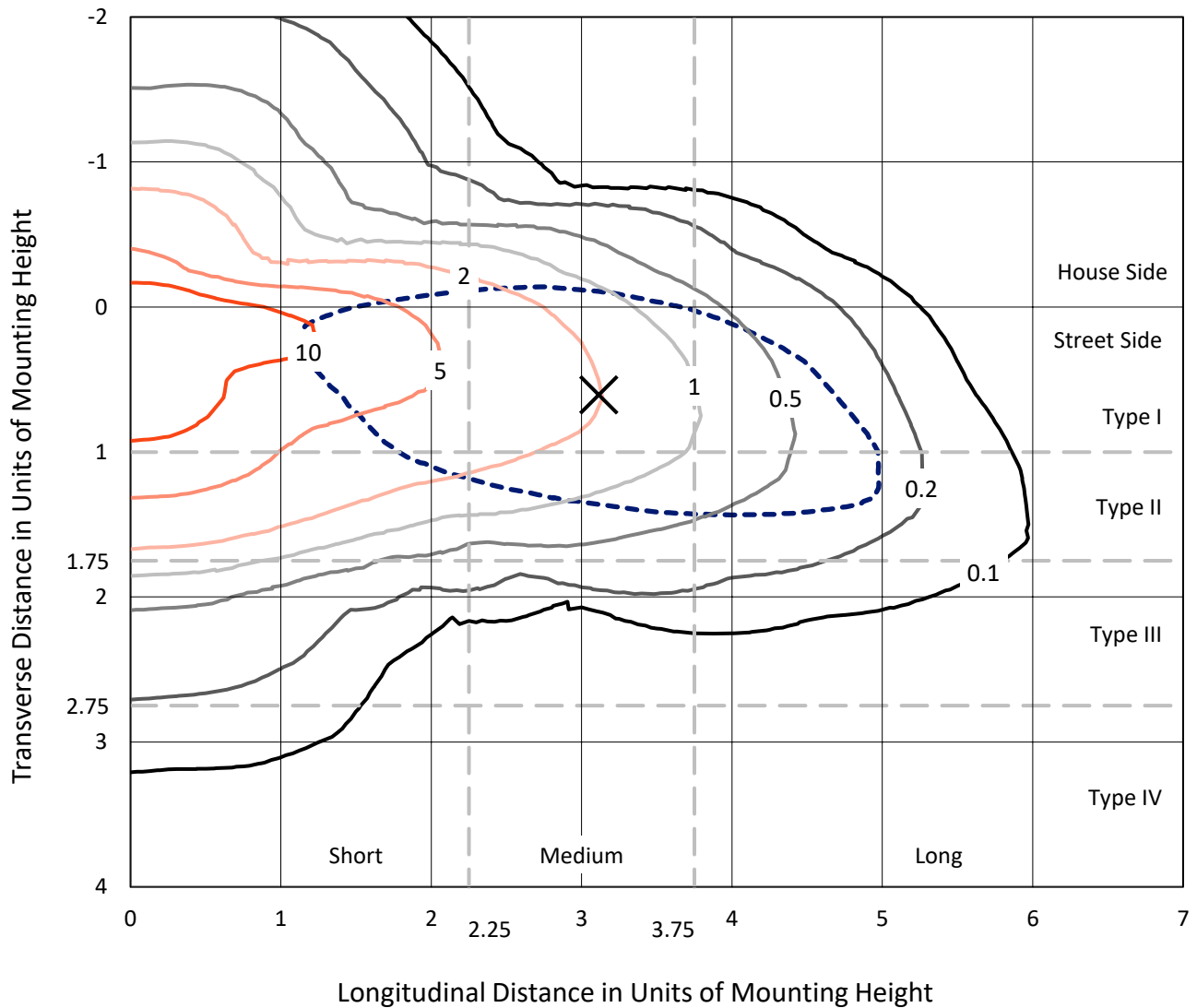
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

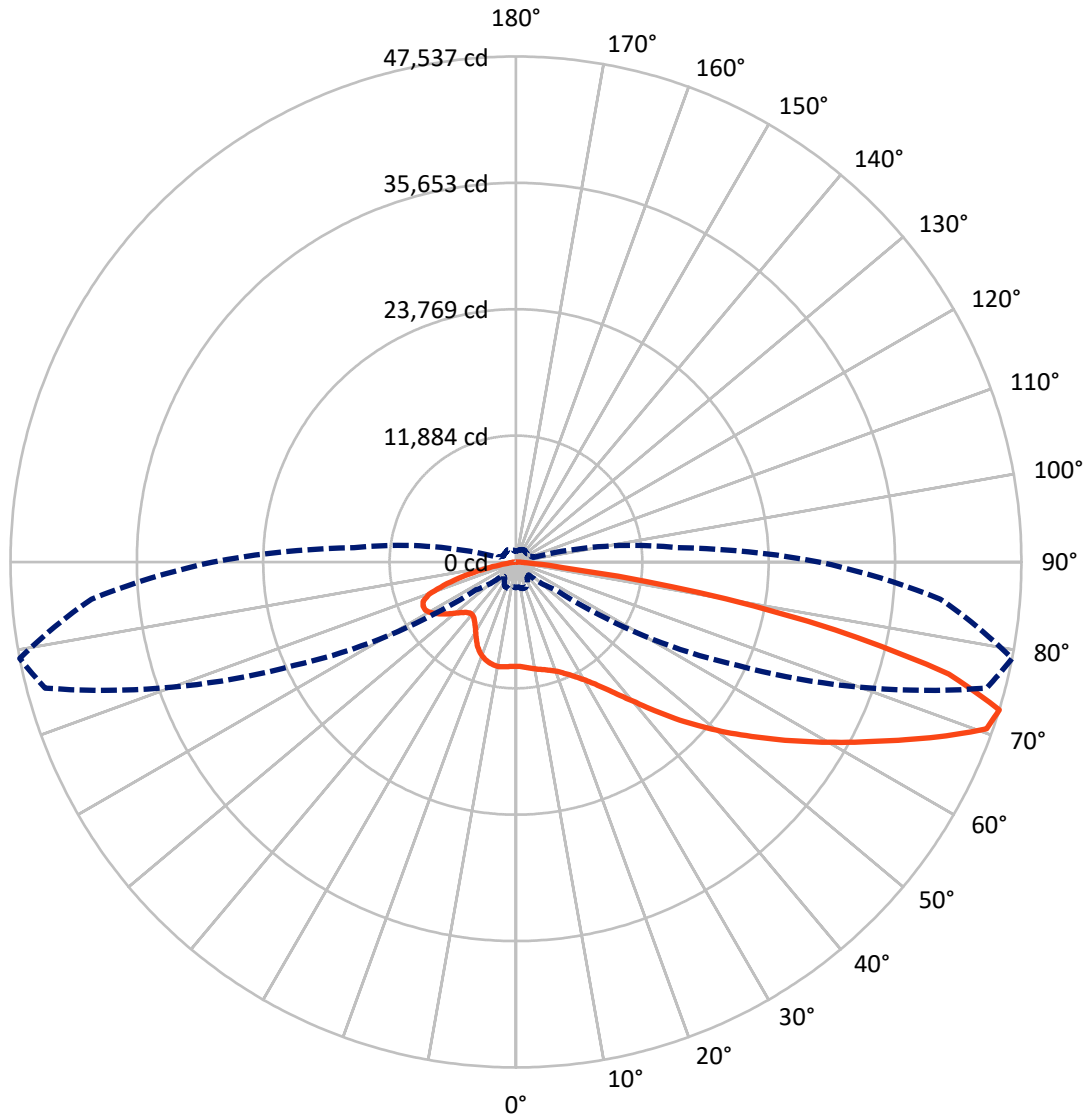
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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
House Side	Lumens	10754.3	0.0	10754.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	38116.7	0.0	38116.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	48871.0	0.0	48871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.5	1.8
10°-20°	2328.2	4.8
20°-30°	3756.8	7.7
30°-40°	5638.4	11.5
40°-50°	7998.4	16.4
50°-60°	10100.9	20.7
60°-70°	10258.8	21.0
70°-80°	6991.9	14.3
80°-90°	907.1	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°	48871.0	100.0
0°-180°	48871.0	100.0

Coefficient of Utilization



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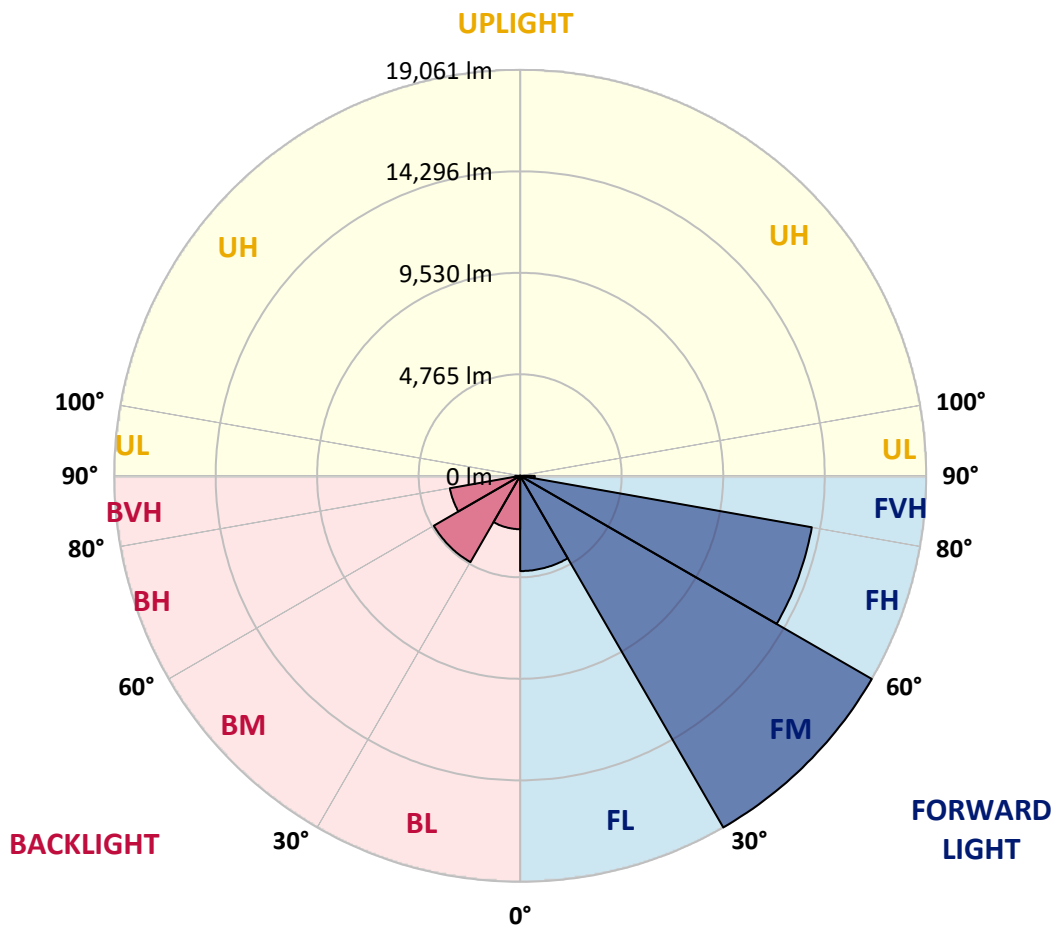
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4470.5	9.1			
FM (30°-60°)	19060.7	39.0			
FH (60°-80°)	13902.1	28.4			G5
FVH (80°-90°)	683.4	1.4			G4/750
BL (0°-30°)	2505.0	5.1	B4/5000		
BM (30°-60°)	4677.0	9.6	B3/5000		
BH (60°-80°)	3348.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	223.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4
2.5°	9815.6	9769.0	9797.5	9787.1	9800.0	9815.6	9820.7	9828.5	9854.3	9851.7
5°	9794.9	9748.3	9787.1	9774.2	9807.8	9844.0	9875.0	9903.5	9944.8	9962.9
7.5°	9750.9	9719.9	9758.7	9797.5	9859.5	9913.8	9957.7	10022.4	10081.8	10092.2
10°	9495.0	9471.7	9562.2	9663.0	9833.7	9981.0	10076.7	10151.6	10216.2	10226.6
12.5°	9228.7	9200.3	9301.1	9438.1	9714.7	9981.0	10182.6	10280.9	10337.7	10371.4
15°	9184.8	9161.5	9218.4	9337.3	9567.4	9911.2	10255.0	10436.0	10485.1	10523.9
17.5°	9396.8	9352.8	9376.1	9417.5	9551.9	9846.6	10311.9	10611.8	10686.7	10728.1
20°	9887.9	9825.9	9789.7	9707.0	9683.7	9856.9	10306.7	10823.7	10922.0	10973.7
22.5°	10542.0	10500.6	10423.1	10213.7	9986.2	9983.6	10405.0	11095.2	11278.7	11327.8
25°	11333.0	11271.0	11172.7	10888.4	10451.5	10234.3	10570.4	11441.6	11749.2	11762.1
27.5°	12243.0	12149.9	12015.5	11640.6	11051.2	10627.3	10823.7	11839.7	12289.5	12284.3
30°	13202.0	13109.0	12966.8	12511.8	11769.9	11157.2	11175.3	12268.8	12930.6	12902.1
32.5°	13902.6	13832.8	13804.3	13452.8	12597.1	11782.8	11578.6	12744.5	13721.6	13695.8
35°	14440.3	14349.8	14383.4	14205.0	13499.3	12483.4	12072.3	13310.6	14683.3	14680.7
37.5°	14972.8	14892.7	14921.1	14802.2	14334.3	13372.6	12674.7	14003.4	15875.0	15931.9
40°	15458.8	15373.5	15487.2	15376.1	14983.1	14318.8	13359.7	14786.7	17255.4	17364.0
42.5°	15750.9	15683.7	15872.4	15875.0	15546.7	15117.6	14112.0	15650.1	18853.0	19096.0
45°	15851.7	15828.5	16112.8	16172.3	16045.6	15580.3	14789.3	16591.1	20574.7	21009.0
47.5°	15743.2	15699.2	16092.1	16311.9	16412.7	15797.4	15350.2	17609.6	22332.5	22968.5
50°	15195.1	15109.8	15694.0	16156.8	16516.1	15939.6	15916.4	18785.8	24330.8	25026.2
52.5°	14210.2	14145.6	14809.9	15613.9	16288.6	16009.4	16552.3	20070.6	26228.2	27127.9
55°	12951.3	12866.0	13597.5	14647.1	15722.5	15986.2	17188.2	21507.9	28466.9	29379.5
57.5°	10955.6	10785.0	11710.4	12951.3	14799.6	15957.7	17850.0	22937.4	30741.8	31835.3
60°	8044.8	7791.4	8926.3	10397.2	12995.2	15681.1	18669.5	24540.2	33471.6	34456.6
62.5°	4684.2	4536.8	5278.7	6651.4	9794.9	14052.5	19129.6	26404.0	36155.0	37189.0
65°	3637.2	3595.8	3660.5	3766.5	5451.9	10521.3	17710.4	28221.3	39567.3	40291.1
67.5°	3327.0	3296.0	3324.4	3125.4	2766.0	5860.4	14011.1	28681.5	43222.6	43662.0
70°	2957.3	2921.1	3014.2	2843.6	2176.6	2665.2	9053.0	27011.5	46130.8	46955.4
72.5°	2409.3	2367.9	2585.1	2507.5	1832.8	1711.3	4547.2	23043.4	45825.8	47537.1
75°	1850.9	1827.7	2086.2	2150.8	1494.2	1346.8	2181.8	17128.8	40327.3	42051.5
77.5°	1437.3	1419.2	1551.0	1786.3	1204.6	1044.4	1341.7	10865.1	30390.2	30692.7
80°	1078.0	1026.3	1147.8	1383.0	938.4	762.6	909.9	6336.0	19209.7	17413.1
82.5°	674.7	648.9	749.7	922.9	661.8	524.8	592.0	3500.2	7698.4	4534.2
85°	385.2	374.8	408.4	527.4	359.3	302.5	338.6	1545.9	1406.3	966.8
87.5°	155.1	149.9	186.1	235.2	131.8	111.2	118.9	372.3	310.2	286.9
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°
9810.4	0°	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4	9810.4
9849.2	2.5°	9838.8	9838.8	9802.6	9745.8	9681.1	9639.8	9572.6	9554.5	9484.7	9464.0
9937.1	5°	9957.7	9937.1	9825.9	9665.6	9445.9	9244.3	9021.9	8882.3	8685.9	8616.1
10110.3	7.5°	10107.7	10050.8	9859.5	9507.9	9047.8	8595.4	8124.9	7768.2	7426.9	7305.4
10252.4	10°	10244.7	10164.5	9838.8	9223.6	8427.4	7644.1	6894.4	6369.6	5971.5	5808.7
10410.1	12.5°	10381.7	10234.3	9701.8	8750.5	7545.9	6483.4	5684.6	5276.2	5030.6	4834.1
10539.4	15°	10510.9	10304.1	9489.8	8117.2	6579.0	5501.1	4911.7	4585.9	4389.5	4260.2
10728.1	17.5°	10660.9	10363.6	9171.9	7313.2	5658.7	4821.2	4340.4	4143.9	4105.1	4089.6
10986.6	20°	10870.3	10417.9	8753.1	6413.6	4981.5	4278.3	4030.1	4012.0	4009.5	4001.7
11296.8	22.5°	11095.2	10482.5	8199.9	5596.7	4405.0	3939.7	3895.7	3859.5	3836.3	3833.7
11671.6	25°	11361.4	10503.2	7507.1	4927.2	3913.8	3779.4	3727.7	3673.4	3657.9	3657.9
12098.2	27.5°	11619.9	10433.4	6700.5	4345.5	3637.2	3632.0	3564.8	3546.7	3544.1	3551.9
12584.2	30°	11878.5	10301.6	5899.2	3807.8	3476.9	3476.9	3453.7	3466.6	3476.9	3502.8
13251.1	32.5°	12227.4	10162.0	5229.6	3409.7	3337.3	3311.5	3334.8	3360.6	3370.9	3404.6
14127.5	35°	12739.3	10063.7	4697.1	3192.6	3192.6	3159.0	3171.9	3166.7	3143.5	3127.9
15187.4	37.5°	13416.6	10058.6	4257.6	3091.8	3071.1	3065.9	3068.5	3034.9	2944.4	2835.8
16469.6	40°	14230.9	10198.2	3919.0	3022.0	3006.5	3037.5	3022.0	2931.5	2683.3	2494.6
18046.5	42.5°	15324.4	10596.3	3701.8	2936.7	2983.2	3022.0	2959.9	2647.1	2479.1	2352.4
19843.1	45°	16611.7	11242.5	3590.7	2846.2	2939.2	2985.8	2685.9	2548.9	2414.5	2261.9
21802.6	47.5°	18069.7	12056.8	3564.8	2760.9	2841.0	2869.4	2569.6	2507.5	2355.0	2189.6
23772.4	50°	19657.0	13021.1	3634.6	2660.1	2698.8	2600.6	2530.8	2473.9	2316.2	2153.4
25791.4	52.5°	21298.5	14083.5	3774.2	2523.0	2556.6	2448.1	2515.3	2466.2	2293.0	2073.2
27877.5	55°	22911.6	15153.8	3908.6	2362.8	2411.9	2311.1	2471.3	2435.1	2187.0	1938.8
30103.3	57.5°	24550.5	16218.8	4040.5	2220.6	2272.3	2179.2	2401.5	2352.4	2068.1	1814.7
32533.3	60°	26254.1	17252.8	4102.5	2083.6	2119.8	2057.7	2295.6	2210.2	1933.6	1688.1
34921.9	62.5°	27849.1	18113.7	4001.7	1946.6	1969.8	1944.0	2156.0	2042.2	1799.2	1545.9
37411.3	65°	29449.3	18625.5	3691.5	1812.1	1817.3	1804.4	1959.5	1861.3	1641.5	1421.8
39590.5	67.5°	30899.5	18912.5	3197.7	1667.4	1654.5	1649.3	1776.0	1664.8	1489.0	1297.7
41247.6	70°	31207.1	18183.5	2442.9	1496.8	1496.8	1483.8	1574.3	1460.6	1321.0	1165.9
40061.0	72.5°	28503.1	15295.9	1734.6	1302.9	1323.6	1297.7	1372.7	1277.0	1150.4	1047.0
34526.4	75°	22984.0	11216.7	1261.5	1103.8	1140.0	1096.1	1165.9	1098.7	990.1	987.5
23793.1	77.5°	15792.3	6935.8	915.1	909.9	935.8	878.9	959.1	922.9	824.6	780.7
10355.8	80°	6739.3	2766.0	667.0	703.1	703.1	651.4	744.5	754.8	669.5	648.9
1998.3	82.5°	1341.7	785.9	467.9	483.4	455.0	439.5	527.4	584.2	806.5	897.0
602.3	85°	403.3	289.5	281.8	263.7	232.7	235.2	310.2	586.8	723.8	413.6
199.1	87.5°	111.2	72.4	75.0	59.5	49.1	64.6	106.0	444.6	243.0	103.4
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°
9810.4
9497.6
8667.8
7321.0
5844.9
4898.7
4283.5
4099.9
4027.6
3862.1
3673.4
3572.6
3520.9
3433.0
3164.1
2838.4
2489.4
2347.3
2251.6
2176.6
2135.3
2057.7
1925.9
1809.6
1680.3
1543.3
1406.3
1282.2
1160.7
1015.9
889.3
731.6
648.9
899.6
356.7
87.9
0.0

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