

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: P951963

Luminaire Tested: **GALN-SB5D-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951963
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-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36422 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

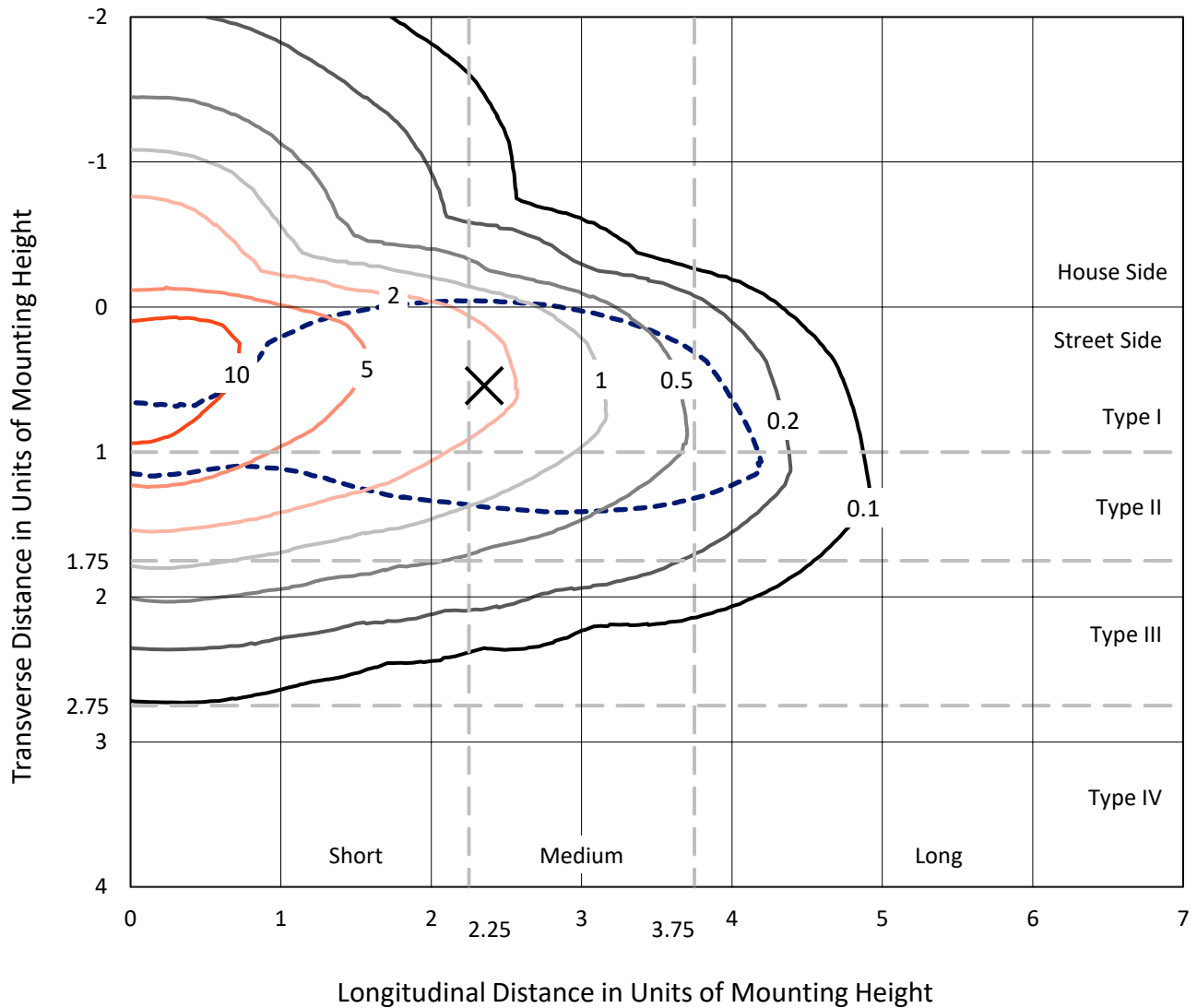
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

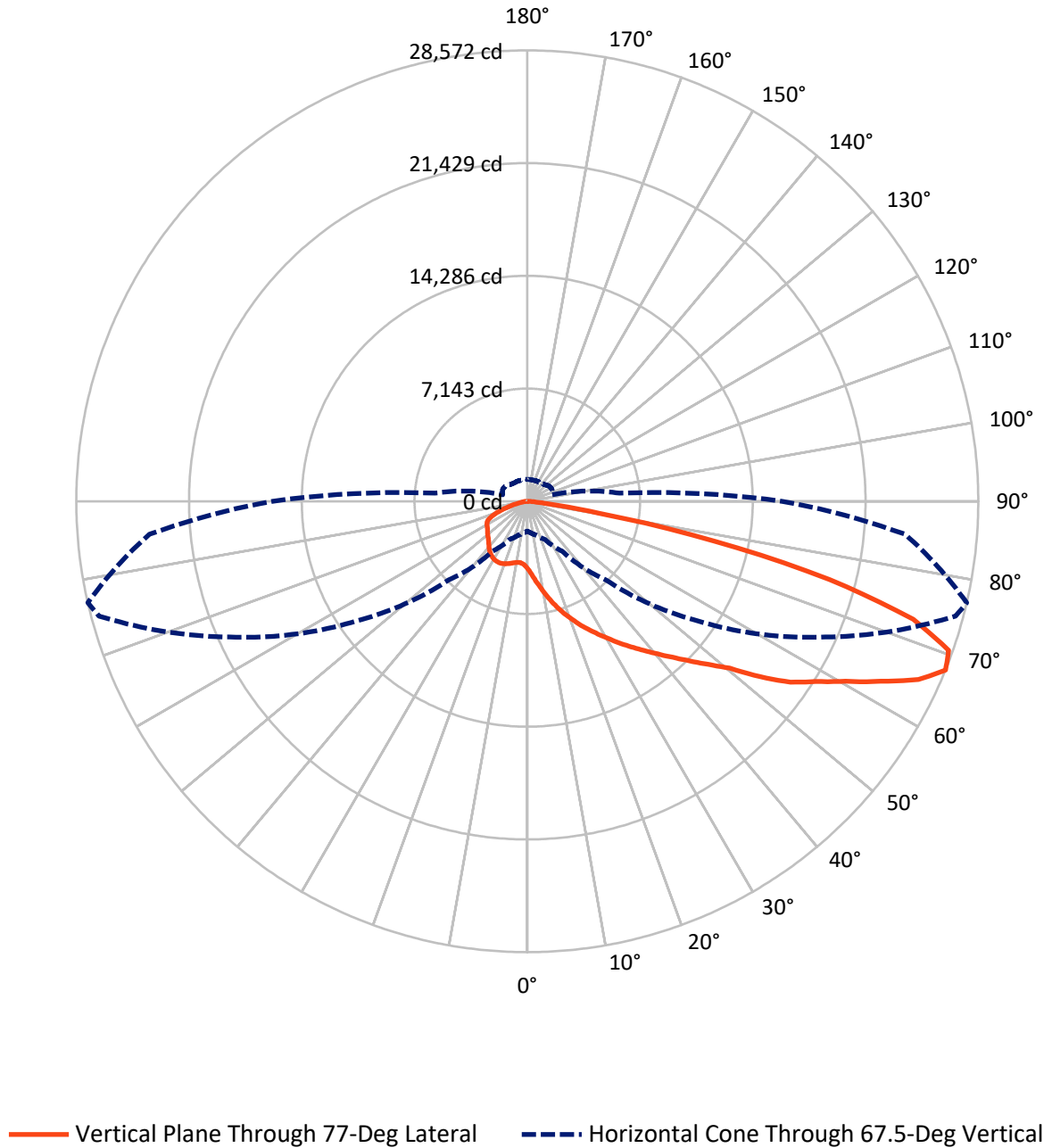
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6889.6	0.0	6889.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29532.4	0.0	29532.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	36422.0	0.0	36422.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	1.3
10°-20°	1645.6	4.5
20°-30°	3107.1	8.5
30°-40°	5005.4	13.7
40°-50°	6846.5	18.8
50°-60°	7722.9	21.2
60°-70°	7208.4	19.8
70°-80°	3951.4	10.8
80°-90°	476.6	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°	36422.0	100.0
0°-180°	36422.0	100.0



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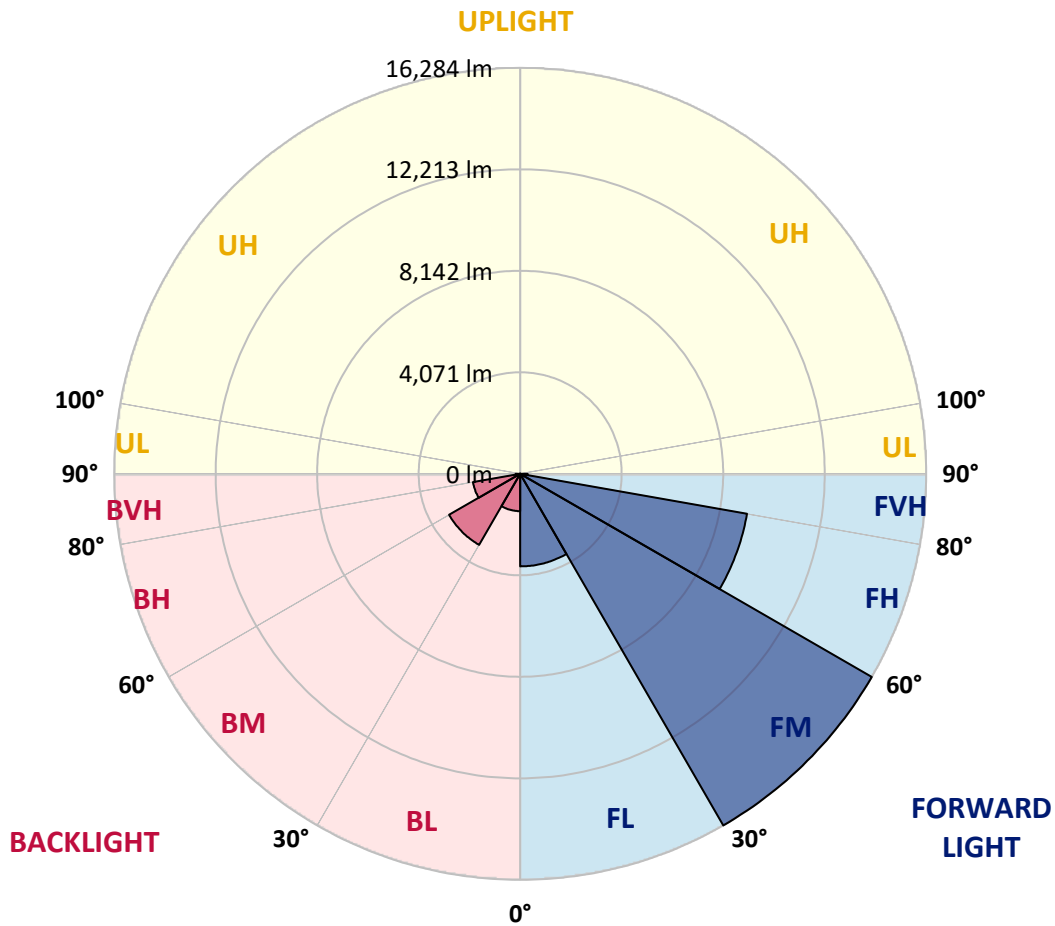
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3712.8	10.2			
FM (30°-60°)	16283.9	44.7			
FH (60°-80°)	9237.7	25.4			G4/12000
FVH (80°-90°)	298.1	0.8			G3/500
BL (0°-30°)	1498.0	4.1	B3/2500		
BM (30°-60°)	3291.0	9.0	B3/5000		
BH (60°-80°)	1922.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	178.6	0.5			G2/225
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°	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4
2.5°	5350.7	5388.3	5341.3	5341.3	5183.4	5100.7	4942.7	4822.4	4606.2	4568.6
5°	6324.6	6371.6	6305.8	6277.6	6091.5	5920.4	5655.3	5394.0	5008.5	4969.1
7.5°	7078.5	7138.7	7080.4	7050.3	6884.9	6693.1	6382.9	6018.2	5474.8	5397.7
10°	7693.3	7702.7	7683.9	7695.2	7565.5	7407.5	7089.8	6664.9	5986.2	5880.9
12.5°	8041.1	8084.4	8122.0	8189.6	8167.1	8069.3	7783.5	7275.9	6527.7	6392.3
15°	8204.7	8279.9	8364.5	8520.5	8646.5	8670.9	8452.9	7932.1	7078.5	6915.0
17.5°	8263.0	8334.4	8467.9	8693.5	8964.2	9146.6	9048.8	8569.4	7623.7	7435.7
20°	8558.1	8578.8	8659.7	8874.0	9167.3	9470.0	9543.3	9182.3	8163.3	7950.9
22.5°	9189.9	9148.5	9171.1	9268.8	9479.4	9772.7	9940.0	9723.8	8718.0	8473.5
25°	10233.3	10113.0	9992.6	9879.8	9987.0	10152.5	10342.3	10265.3	9298.9	8988.7
27.5°	11551.2	11404.6	11139.5	10769.1	10639.4	10697.7	10782.3	10767.2	9836.6	9522.6
30°	12848.5	12677.4	12361.6	11825.7	11483.6	11329.4	11265.5	11222.2	10421.3	10086.7
32.5°	13884.4	13749.1	13438.8	12839.1	12342.8	12079.5	11867.1	11712.9	11032.3	10697.7
35°	14790.6	14664.7	14309.3	13655.1	13115.5	12835.3	12557.1	12228.1	11667.8	11329.4
37.5°	15617.9	15491.9	15005.0	14324.4	13781.0	13587.4	13339.2	12780.8	12305.2	11985.5
40°	16140.5	16112.3	15657.3	14886.5	14322.5	14226.6	14143.9	13421.9	13012.1	12715.0
42.5°	16274.0	16336.1	15975.1	15341.5	14803.8	14726.7	14920.4	14147.6	13805.5	13521.6
45°	15952.5	16131.1	15894.2	15463.7	15146.0	15104.6	15608.5	14941.0	14683.5	14424.0
47.5°	15138.4	15441.1	15343.4	15283.2	15238.1	15416.7	16213.8	15783.3	15678.0	15452.4
50°	13495.2	14068.7	14239.8	14619.5	15055.7	15659.2	16764.7	16702.7	16839.9	16612.4
52.5°	10654.4	11444.1	12436.8	13388.1	14495.5	15578.4	17370.1	18022.5	18601.6	18477.5
55°	8795.0	9150.4	9913.7	11658.4	13408.8	15238.1	17642.7	19088.5	20350.0	20239.1
57.5°	7366.2	7683.9	8153.9	9611.0	11765.6	14465.4	17811.9	19739.0	21547.6	21536.4
60°	5833.9	6170.4	6651.7	7683.9	9846.0	13130.5	17774.3	20479.8	23076.2	23170.2
62.5°	4104.2	4474.6	5008.5	5971.1	7885.1	11400.8	17007.2	21015.6	24875.4	25131.1
65°	2697.9	2942.3	3344.7	4175.7	5875.3	9176.7	15542.7	21085.1	26800.6	27233.0
67.5°	1891.4	1985.4	2222.3	2673.5	3873.0	7037.2	13209.5	20365.1	28084.7	28571.6
70°	1475.9	1522.9	1643.2	1823.7	2432.8	4732.2	10122.4	18492.5	27810.2	28317.8
72.5°	1274.7	1319.8	1364.9	1387.5	1631.9	2921.7	6856.7	15461.8	25225.1	25569.1
75°	1156.3	1167.5	1205.1	1197.6	1244.6	1895.1	3957.6	11265.5	19902.6	19784.1
77.5°	972.0	987.0	1049.1	1039.7	1105.5	1295.4	2054.9	7270.3	12903.0	12098.3
80°	823.5	831.0	898.7	887.4	960.7	938.2	1049.1	3705.6	5472.9	4636.3
82.5°	285.8	353.5	686.2	706.9	733.2	567.8	605.4	1511.6	1671.4	1280.3
85°	139.1	148.5	349.7	496.3	494.5	285.8	295.2	539.6	526.4	413.6
87.5°	22.6	28.2	41.4	193.6	154.2	75.2	101.5	105.3	109.0	94.0
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°
4273.4	0°	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4	4273.4
4425.7	2.5°	4320.4	4226.4	4029.0	3846.7	3703.8	3566.5	3489.4	3423.6	3386.0	3378.5
4632.5	5°	4437.0	4243.4	3884.3	3581.6	3384.2	3237.5	3160.4	3111.5	3087.1	3072.1
4910.8	7.5°	4604.3	4320.4	3809.1	3465.0	3258.2	3152.9	3113.4	3105.9	3104.0	3105.9
5247.3	10°	4835.6	4446.4	3801.5	3436.8	3263.8	3205.5	3203.7	3205.5	3213.1	3214.9
5613.9	12.5°	5085.6	4576.1	3831.6	3461.2	3335.3	3303.3	3297.7	3295.8	3301.4	3305.2
5984.3	15°	5358.2	4747.2	3882.4	3513.9	3414.2	3380.4	3374.8	3363.5	3361.6	3359.7
6373.5	17.5°	5638.4	4916.4	3938.8	3570.3	3465.0	3418.0	3397.3	3371.0	3350.3	3344.7
6775.8	20°	5922.3	5083.7	3978.3	3598.5	3468.8	3403.0	3361.6	3316.5	3280.7	3260.1
7181.9	22.5°	6225.0	5258.6	4002.7	3591.0	3434.9	3344.7	3269.5	3216.8	3162.3	3126.6
7591.8	25°	6520.1	5410.9	4000.8	3551.5	3369.1	3254.4	3158.5	3090.9	3015.7	2978.1
8014.8	27.5°	6804.0	5548.1	3953.8	3481.9	3275.1	3147.3	3032.6	2951.7	2878.4	2842.7
8441.6	30°	7097.3	5662.8	3880.5	3380.4	3164.2	3023.2	2897.2	2827.6	2761.8	2728.0
8892.8	32.5°	7388.7	5768.1	3777.1	3254.4	3036.3	2901.0	2776.9	2713.0	2673.5	2673.5
9377.9	35°	7697.1	5841.4	3639.8	3107.8	2901.0	2771.2	2673.5	2635.9	2632.1	2609.6
9891.1	37.5°	8022.3	5888.4	3472.5	2957.4	2767.5	2645.3	2615.2	2570.1	2532.5	2483.6
10455.2	40°	8364.5	5935.4	3271.3	2801.3	2626.5	2558.8	2545.6	2485.5	2378.3	2258.0
11094.4	42.5°	8780.0	5967.4	3062.7	2645.3	2478.0	2455.4	2474.2	2370.8	2199.7	2109.5
11865.2	45°	9261.3	6020.0	2870.9	2491.1	2325.7	2325.7	2404.6	2269.3	2128.3	2071.9
12745.1	47.5°	9885.5	6142.2	2692.3	2321.9	2184.7	2222.3	2250.5	2147.1	2068.1	1998.5
13816.7	50°	10787.9	6435.5	2508.0	2150.8	2077.5	2152.7	2113.2	2053.1	1960.9	1904.5
15520.1	52.5°	11908.5	6608.5	2344.5	1996.6	1985.4	2060.6	2004.2	1947.8	1878.2	1803.0
16811.7	55°	12671.8	6640.5	2207.2	1883.8	1923.3	1915.8	1895.1	1844.4	1806.8	1707.1
18086.4	57.5°	13525.3	6704.4	2094.4	1816.2	1883.8	1801.1	1793.6	1750.4	1701.5	1633.8
19641.2	60°	14546.2	6804.0	1996.6	1789.8	1850.0	1725.9	1688.3	1671.4	1622.5	1588.7
21511.9	62.5°	15659.2	6894.3	1897.0	1793.6	1810.5	1652.6	1596.2	1590.6	1560.5	1549.2
23267.9	65°	16418.8	6648.0	1772.9	1789.8	1748.5	1577.4	1505.9	1504.1	1479.6	1475.9
24029.4	67.5°	16153.7	5867.7	1605.6	1737.2	1684.6	1502.2	1423.2	1415.7	1383.7	1385.6
23234.1	70°	14826.3	4754.7	1374.3	1607.5	1605.6	1434.5	1336.7	1312.3	1269.1	1276.6
20201.5	72.5°	12337.1	3523.3	1064.1	1391.3	1479.6	1372.5	1237.1	1197.6	1143.1	1150.6
14912.8	75°	8909.7	2395.2	774.6	1058.5	1287.9	1299.1	1139.3	1071.6	1005.8	1017.1
8300.6	77.5°	4559.2	1357.4	569.7	729.5	1011.5	1180.7	1051.0	960.7	945.7	1051.0
2393.3	80°	1487.1	680.6	394.8	511.4	663.7	966.4	921.2	817.8	814.1	838.5
502.0	82.5°	443.7	287.7	253.8	336.5	366.6	740.8	795.3	618.5	532.1	560.3
167.3	85°	152.3	139.1	144.8	167.3	174.8	434.3	556.5	409.9	387.3	426.8
37.6	87.5°	35.7	48.9	41.4	37.6	37.6	105.3	216.2	171.1	236.9	157.9
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°
4273.4
3378.5
3070.2
3111.5
3216.8
3307.1
3357.8
3350.3
3267.6
3128.5
2978.1
2840.8
2726.1
2675.4
2603.9
2476.1
2241.1
2111.3
2081.3
1996.6
1898.9
1788.0
1709.0
1611.2
1598.1
1549.2
1474.0
1385.6
1284.1
1148.7
1020.9
1035.9
720.1
579.1
421.1
152.3
0.0

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