

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: P949813

Luminaire Tested: **GALN-SB4B-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949813
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-SB4B-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15604 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

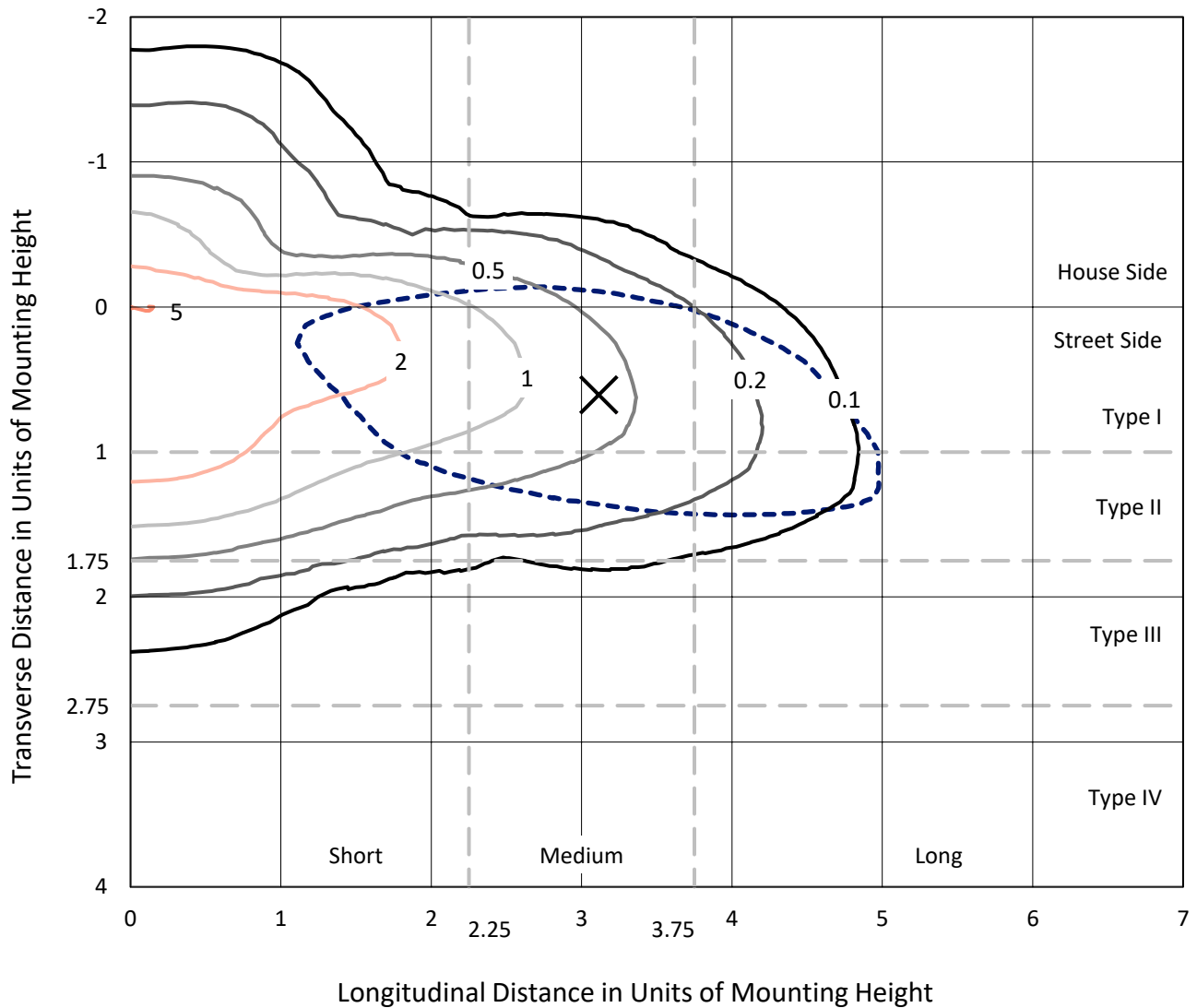
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

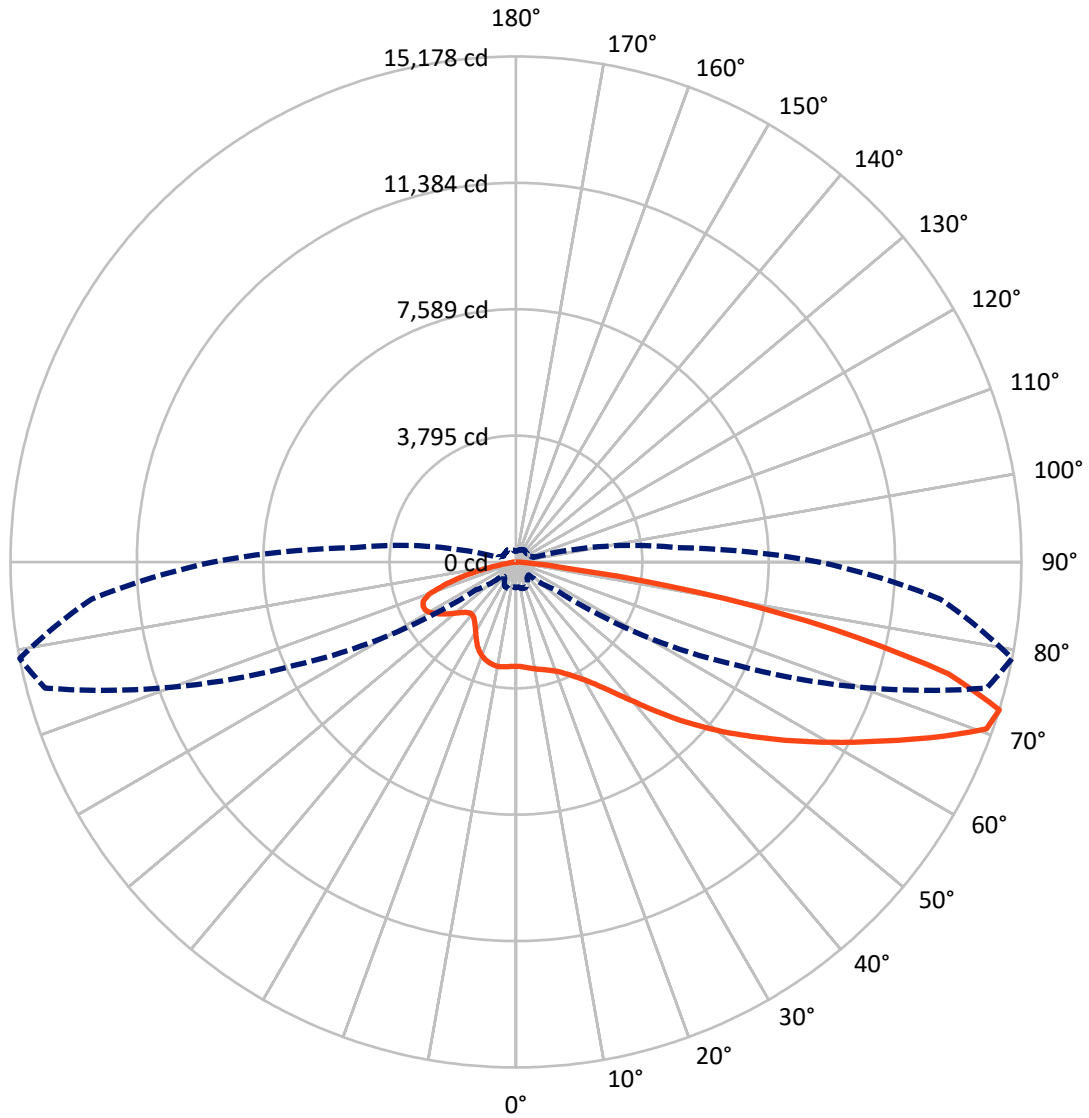
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	3433.7	0.0	3433.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	12170.3	0.0	12170.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	15604.0	0.0	15604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	1.8
10°-20°	743.4	4.8
20°-30°	1199.5	7.7
30°-40°	1800.3	11.5
40°-50°	2553.8	16.4
50°-60°	3225.1	20.7
60°-70°	3275.5	21.0
70°-80°	2232.4	14.3
80°-90°	289.6	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°	15604.0	100.0
0°-180°	15604.0	100.0

Coefficient of Utilization



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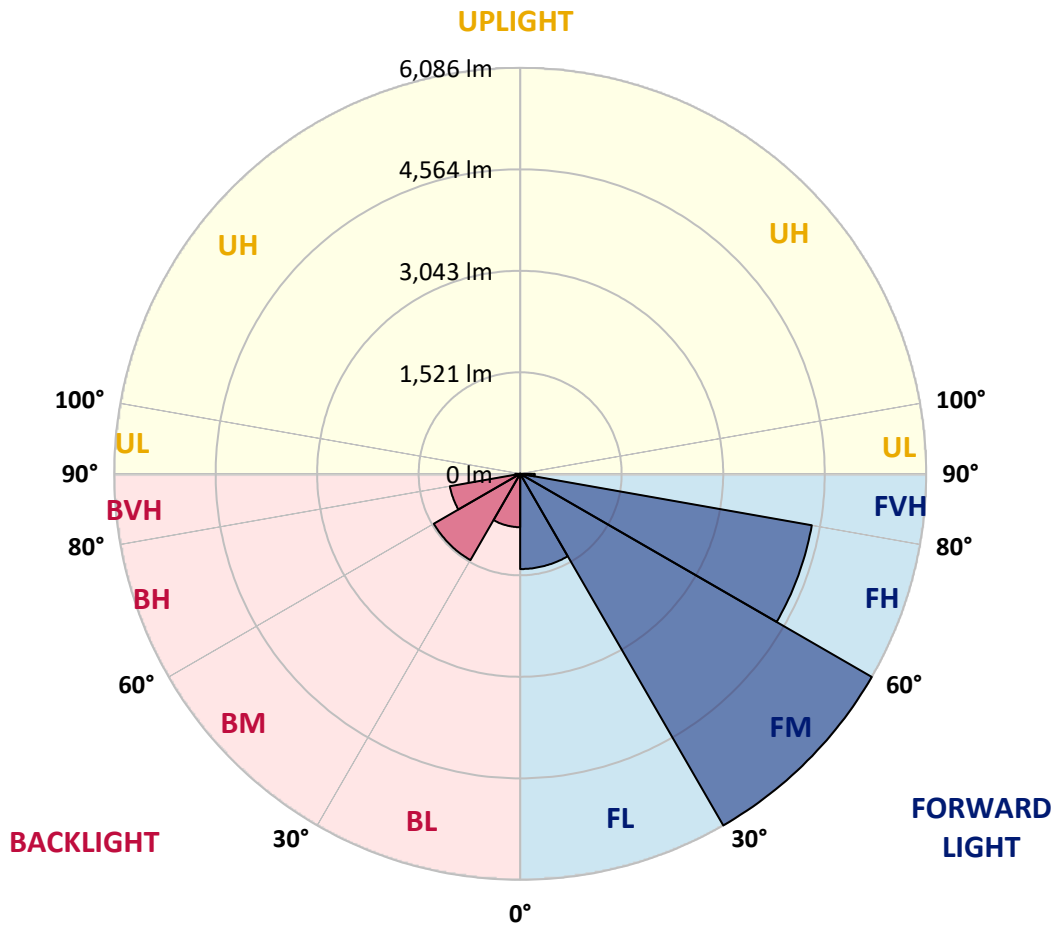
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.4	9.1			
FM (30°-60°)	6085.9	39.0			
FH (60°-80°)	4438.8	28.4			G2/5000
FVH (80°-90°)	218.2	1.4			G2/225
BL (0°-30°)	799.8	5.1	B2/1000		
BM (30°-60°)	1493.3	9.6	B2/2500		
BH (60°-80°)	1069.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	71.5	0.5			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°	79°	
0°	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4
2.5°	3134.0	3119.1	3128.2	3124.9	3129.1	3134.0	3135.7	3138.1	3146.4	3145.6	
5°	3127.4	3112.5	3124.9	3120.8	3131.5	3143.1	3153.0	3162.1	3175.3	3181.1	
7.5°	3113.4	3103.5	3115.8	3128.2	3148.0	3165.4	3179.4	3200.0	3219.0	3222.3	
10°	3031.7	3024.2	3053.1	3085.3	3139.8	3186.8	3217.4	3241.3	3261.9	3265.2	
12.5°	2946.6	2937.6	2969.8	3013.5	3101.8	3186.8	3251.2	3282.6	3300.7	3311.5	
15°	2932.6	2925.2	2943.3	2981.3	3054.8	3164.5	3274.3	3332.1	3347.8	3360.2	
17.5°	3000.3	2986.3	2993.7	3006.9	3049.8	3143.9	3292.5	3388.2	3412.2	3425.4	
20°	3157.1	3137.3	3125.8	3099.3	3091.9	3147.2	3290.8	3455.9	3487.3	3503.8	
22.5°	3365.9	3352.7	3328.0	3261.1	3188.5	3187.7	3322.2	3542.6	3601.2	3616.9	
25°	3618.5	3598.7	3567.3	3476.5	3337.1	3267.7	3375.0	3653.2	3751.4	3755.5	
27.5°	3909.0	3879.3	3836.4	3716.7	3528.5	3393.2	3455.9	3780.3	3923.9	3922.3	
30°	4215.3	4185.6	4140.2	3994.9	3758.0	3562.4	3568.2	3917.3	4128.6	4119.5	
32.5°	4438.9	4416.7	4407.6	4295.3	4022.1	3762.1	3696.9	4069.2	4381.2	4372.9	
35°	4610.6	4581.7	4592.5	4535.5	4310.2	3985.8	3854.6	4249.9	4688.2	4687.4	
37.5°	4780.7	4755.1	4764.2	4726.2	4576.8	4269.7	4046.9	4471.1	5068.7	5086.9	
40°	4935.8	4908.6	4944.9	4909.4	4784.0	4571.8	4265.6	4721.2	5509.5	5544.1	
42.5°	5029.1	5007.6	5067.9	5068.7	4963.9	4826.9	4505.8	4996.9	6019.6	6097.2	
45°	5061.3	5053.9	5144.7	5163.6	5123.2	4974.6	4722.1	5297.4	6569.3	6707.9	
47.5°	5026.6	5012.6	5138.1	5208.2	5240.4	5044.0	4901.2	5622.6	7130.5	7333.6	
50°	4851.6	4824.4	5010.9	5158.7	5273.4	5089.4	5081.9	5998.1	7768.6	7990.6	
52.5°	4537.2	4516.5	4728.7	4985.4	5200.8	5111.6	5285.0	6408.3	8374.4	8661.6	
55°	4135.2	4108.0	4341.6	4676.7	5020.0	5104.2	5488.0	6867.2	9089.2	9380.6	
57.5°	3498.0	3443.5	3739.0	4135.2	4725.4	5095.1	5699.3	7323.7	9815.5	10164.7	
60°	2568.6	2487.7	2850.1	3319.7	4149.2	5006.8	5961.0	7835.4	10687.1	11001.6	
62.5°	1495.6	1448.6	1685.4	2123.7	3127.4	4486.8	6107.9	8430.5	11543.9	11874.1	
65°	1161.3	1148.1	1168.8	1202.6	1740.7	3359.3	5654.7	9010.8	12633.4	12864.5	
67.5°	1062.3	1052.4	1061.5	997.9	883.2	1871.2	4473.6	9157.7	13800.5	13940.8	
70°	944.2	932.7	962.4	907.9	695.0	851.0	2890.5	8624.5	14729.1	14992.4	
72.5°	769.3	756.1	825.4	800.6	585.2	546.4	1451.9	7357.5	14631.7	15178.1	
75°	591.0	583.6	666.1	686.7	477.1	430.0	696.6	5469.0	12876.1	13426.6	
77.5°	458.9	453.1	495.2	570.3	384.6	333.5	428.4	3469.1	9703.3	9799.9	
80°	344.2	327.7	366.5	441.6	299.6	243.5	290.5	2023.0	6133.5	5559.8	
82.5°	215.4	207.2	239.4	294.7	211.3	167.6	189.0	1117.6	2458.0	1447.7	
85°	123.0	119.7	130.4	168.4	114.7	96.6	108.1	493.6	449.0	308.7	
87.5°	49.5	47.9	59.4	75.1	42.1	35.5	38.0	118.9	99.0	91.6	
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°
3132.4	0°	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4	3132.4
3144.7	2.5°	3141.4	3141.4	3129.9	3111.7	3091.1	3077.9	3056.4	3050.6	3028.4	3021.8
3172.8	5°	3179.4	3172.8	3137.3	3086.1	3016.0	2951.6	2880.6	2836.0	2773.3	2751.0
3228.1	7.5°	3227.3	3209.1	3148.0	3035.8	2888.9	2744.4	2594.2	2480.3	2371.3	2332.6
3273.5	10°	3271.0	3245.4	3141.4	2945.0	2690.8	2440.7	2201.3	2033.8	1906.7	1854.7
3323.8	12.5°	3314.8	3267.7	3097.7	2793.9	2409.3	2070.1	1815.0	1684.6	1606.2	1543.5
3365.1	15°	3356.0	3290.0	3030.0	2591.7	2100.6	1756.4	1568.2	1464.2	1401.5	1360.2
3425.4	17.5°	3403.9	3309.0	2928.5	2335.0	1806.8	1539.4	1385.8	1323.1	1310.7	1305.8
3507.9	20°	3470.8	3326.3	2794.8	2047.8	1590.5	1366.0	1286.8	1281.0	1280.2	1277.7
3607.0	22.5°	3542.6	3347.0	2618.1	1787.0	1406.5	1257.9	1243.9	1232.3	1224.9	1224.1
3726.6	25°	3627.6	3353.6	2396.9	1573.2	1249.6	1206.7	1190.2	1172.9	1167.9	1167.9
3862.8	27.5°	3710.1	3331.3	2139.4	1387.5	1161.3	1159.7	1138.2	1132.4	1131.6	1134.1
4018.0	30°	3792.7	3289.2	1883.5	1215.8	1110.1	1110.1	1102.7	1106.8	1110.1	1118.4
4230.9	32.5°	3904.1	3244.6	1669.8	1088.7	1065.6	1057.3	1064.8	1073.0	1076.3	1087.0
4510.8	35°	4067.5	3213.2	1499.7	1019.4	1019.4	1008.6	1012.8	1011.1	1003.7	998.7
4849.2	37.5°	4283.8	3211.6	1359.4	987.2	980.6	978.9	979.7	969.0	940.1	905.5
5258.6	40°	4543.8	3256.2	1251.3	964.9	959.9	969.8	964.9	936.0	856.8	796.5
5762.0	42.5°	4892.9	3383.3	1182.0	937.6	952.5	964.9	945.1	845.2	791.5	751.1
6335.7	45°	5304.0	3589.6	1146.5	908.8	938.5	953.3	857.6	813.8	770.9	722.2
6961.3	47.5°	5769.5	3849.6	1138.2	881.5	907.1	916.2	820.4	800.6	751.9	699.1
7590.3	50°	6276.3	4157.5	1160.5	849.3	861.7	830.3	808.1	789.9	739.5	687.5
8234.9	52.5°	6800.4	4496.7	1205.1	805.6	816.3	781.6	803.1	787.4	732.1	662.0
8901.0	55°	7315.4	4838.4	1248.0	754.4	770.1	737.9	789.1	777.5	698.3	619.0
9611.7	57.5°	7838.7	5178.5	1290.1	709.0	725.5	695.8	766.8	751.1	660.3	579.4
10387.5	60°	8382.7	5508.7	1309.9	665.3	676.8	657.0	732.9	705.7	617.4	539.0
11150.2	62.5°	8891.9	5783.5	1277.7	621.5	628.9	620.7	688.4	652.1	574.5	493.6
11945.0	65°	9402.8	5946.9	1178.7	578.6	580.2	576.1	625.6	594.3	524.1	454.0
12640.8	67.5°	9865.9	6038.6	1021.0	532.4	528.2	526.6	567.0	531.6	475.4	414.3
13169.9	70°	9964.1	5805.8	780.0	477.9	477.9	473.8	502.7	466.3	421.8	372.3
12791.1	72.5°	9100.7	4883.8	553.8	416.0	422.6	414.3	438.3	407.7	367.3	334.3
11023.9	75°	7338.5	3581.4	402.8	352.4	364.0	350.0	372.3	350.8	316.1	315.3
7596.9	77.5°	5042.3	2214.5	292.2	290.5	298.8	280.6	306.2	294.7	263.3	249.3
3306.5	80°	2151.8	883.2	213.0	224.5	224.5	208.0	237.7	241.0	213.8	207.2
638.0	82.5°	428.4	250.9	149.4	154.3	145.3	140.3	168.4	186.5	257.5	286.4
192.3	85°	128.8	92.4	90.0	84.2	74.3	75.1	99.0	187.4	231.1	132.1
63.6	87.5°	35.5	23.1	23.9	19.0	15.7	20.6	33.8	142.0	77.6	33.0
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>
3132.4
3032.5
2767.5
2337.5
1866.2
1564.1
1367.7
1309.1
1286.0
1233.1
1172.9
1140.7
1124.2
1096.1
1010.3
906.3
794.9
749.5
718.9
695.0
681.8
657.0
614.9
577.8
536.5
492.8
449.0
409.4
370.6
324.4
283.9
233.6
207.2
287.2
113.9
28.1
0.0

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