

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: P941415

Luminaire Tested: **GALN-SB4D-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29283 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

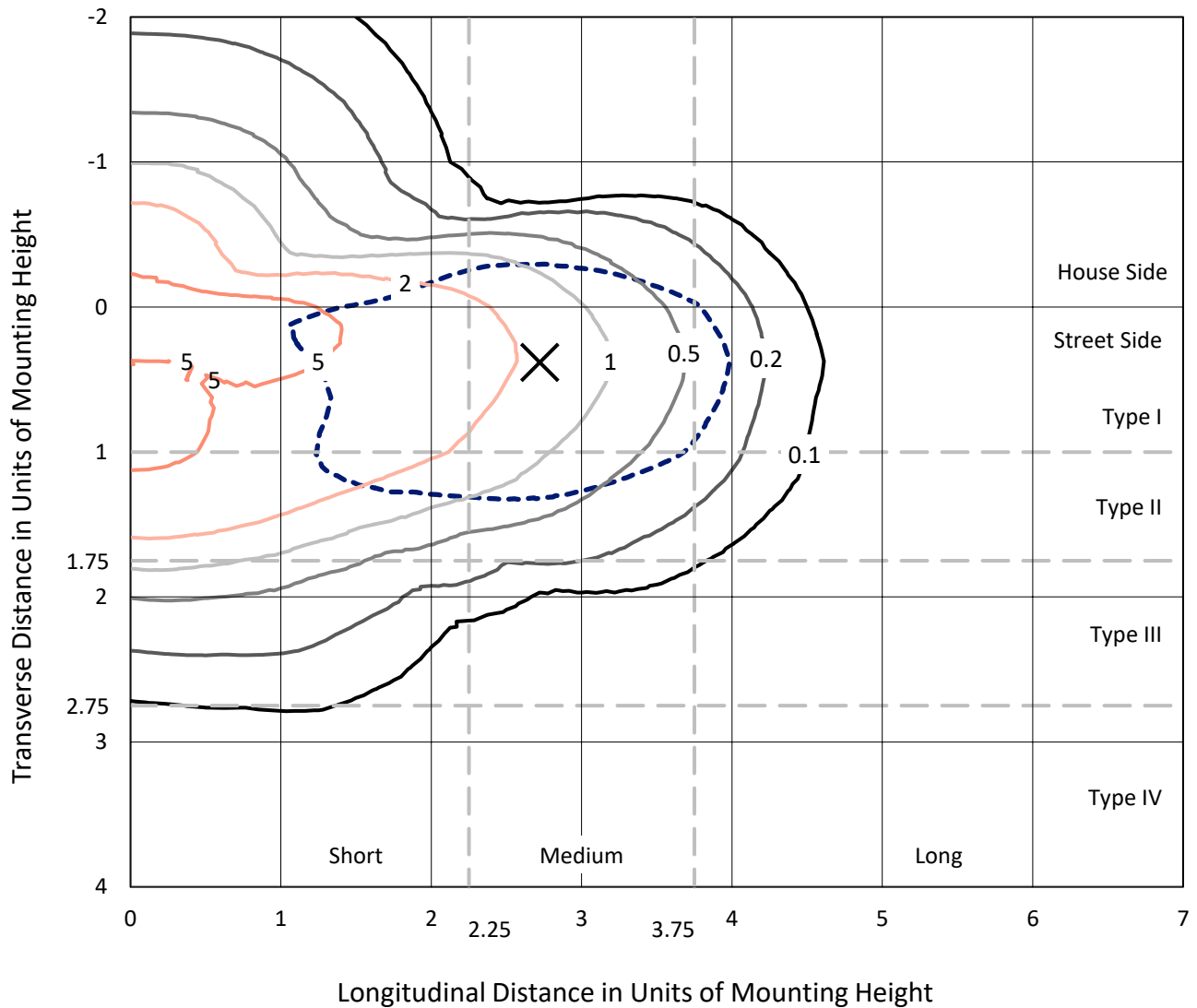
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

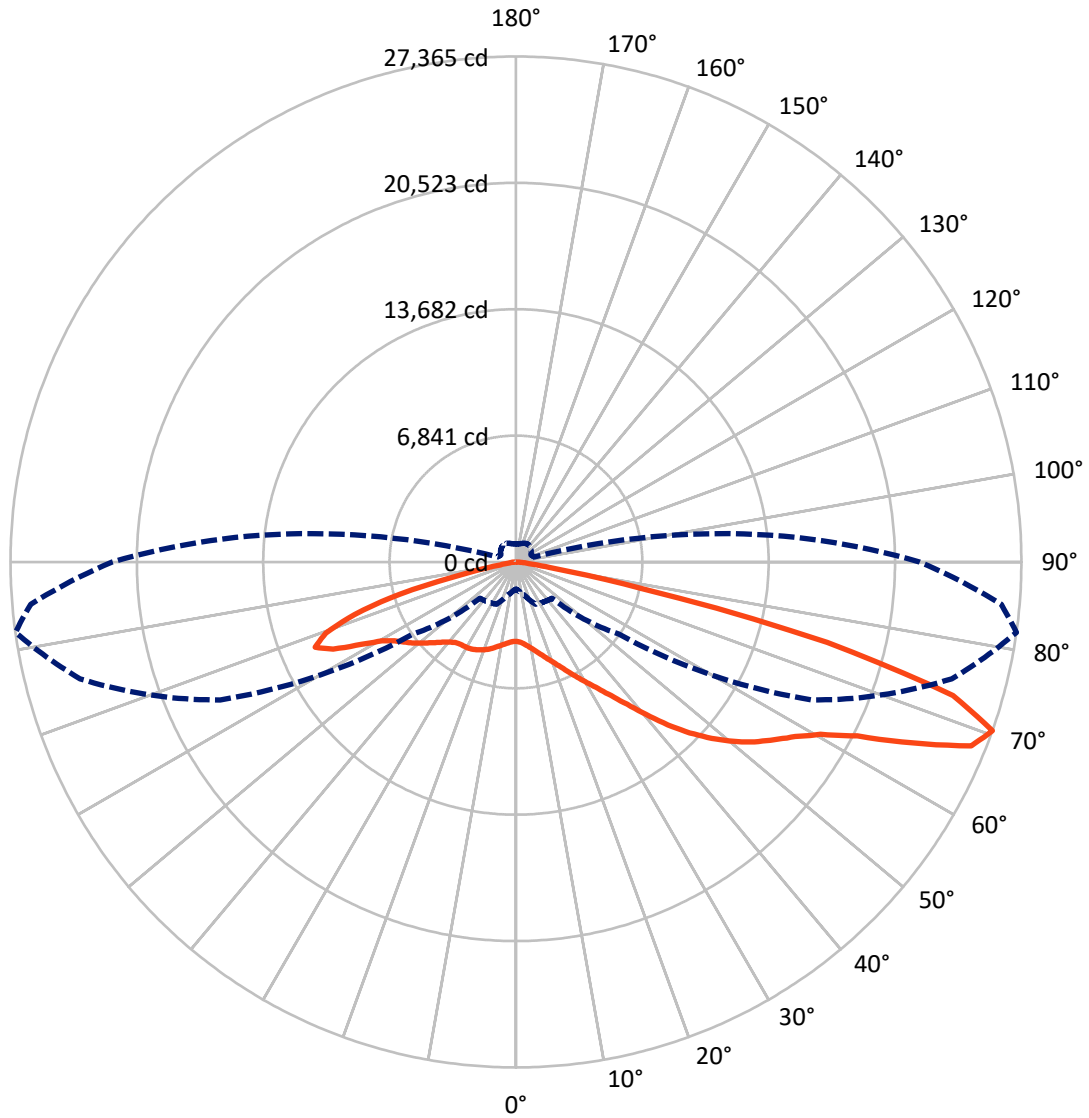
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7219.0	0.0	7219.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22064.0	0.0	22064.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	29283.0	0.0	29283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.4	1.4
10°-20°	1164.6	4.0
20°-30°	1948.3	6.7
30°-40°	3043.7	10.4
40°-50°	4847.5	16.6
50°-60°	6745.9	23.0
60°-70°	7056.5	24.1
70°-80°	3688.1	12.6
80°-90°	383.0	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°	29283.0	100.0
0°-180°	29283.0	100.0



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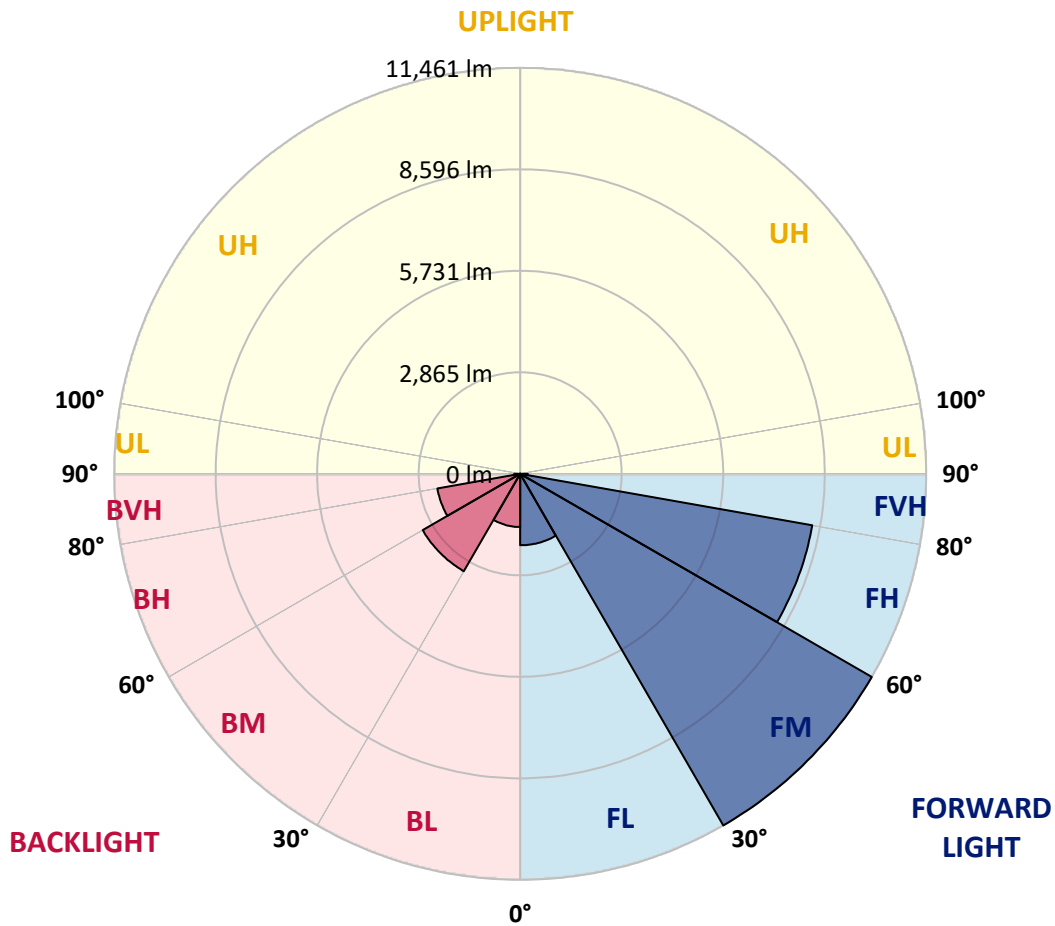
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.5	6.9			
FM (30°-60°)	11461.1	39.1			
FH (60°-80°)	8372.1	28.6			G4/12000
FVH (80°-90°)	214.4	0.7			G2/225
BL (0°-30°)	1501.8	5.1	B3/2500		
BM (30°-60°)	3176.1	10.8	B3/5000		
BH (60°-80°)	2372.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	168.6	0.6			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°	82°
0°	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3
2.5°	4395.8	4420.7	4412.9	4405.1	4405.1	4394.3	4392.7	4377.2	4364.7	4344.5
5°	4451.7	4478.2	4475.1	4481.3	4501.5	4506.1	4510.8	4501.5	4476.6	4451.7
7.5°	4402.0	4431.5	4440.9	4478.2	4540.3	4596.3	4638.2	4655.3	4632.0	4596.3
10°	4234.2	4266.8	4299.5	4388.0	4498.4	4630.4	4742.3	4809.1	4804.5	4770.3
12.5°	3893.9	3928.1	3998.0	4170.5	4372.5	4605.6	4813.8	4953.6	5001.8	4976.9
15°	3622.0	3651.5	3704.3	3881.5	4144.1	4498.4	4840.2	5112.1	5234.9	5220.9
17.5°	3614.2	3626.7	3659.3	3743.2	3945.2	4330.5	4812.2	5267.5	5502.1	5500.6
20°	3751.0	3755.6	3774.3	3791.4	3906.3	4203.1	4740.8	5396.5	5802.0	5802.0
22.5°	3940.5	3937.4	3956.1	3940.5	3996.5	4192.3	4695.7	5509.9	6136.1	6161.0
25°	4224.9	4209.3	4204.7	4168.9	4179.8	4293.3	4745.4	5638.9	6532.3	6583.6
27.5°	4604.0	4579.2	4562.1	4479.7	4451.7	4501.5	4897.7	5794.3	6973.6	7062.2
30°	5098.1	5053.1	5028.2	4885.3	4784.3	4792.0	5127.7	6000.9	7435.1	7578.1
32.5°	5772.5	5702.6	5635.8	5401.1	5216.2	5155.6	5424.4	6286.8	7935.4	8163.9
35°	6527.7	6471.7	6400.3	6038.2	5753.9	5614.0	5825.3	6686.2	8521.2	8883.3
37.5°	7254.9	7206.7	7240.9	6753.0	6386.3	6182.7	6350.5	7222.2	9243.8	9778.3
40°	8006.9	7969.6	7974.3	7508.1	7080.8	6852.4	6987.6	7895.1	10072.0	10842.7
42.5°	8824.2	8796.3	8703.0	8289.7	7809.6	7596.7	7721.0	8672.0	10960.8	12054.7
45°	9739.5	9722.4	9635.3	9161.4	8611.4	8372.1	8539.9	9529.7	11854.2	13195.2
47.5°	10530.4	10544.3	10533.5	10134.1	9563.9	9212.7	9413.1	10424.7	12685.5	14267.3
50°	10911.0	10984.1	11091.3	10967.0	10612.7	10255.3	10294.2	11288.6	13478.0	15272.7
52.5°	10712.2	10850.4	11142.6	11341.5	11478.2	11403.6	11299.5	12146.4	14223.8	16180.1
55°	9971.0	10165.2	10650.0	11130.1	11827.8	12370.1	12506.8	13097.3	14951.0	16978.8
57.5°	8620.7	8936.1	9371.2	10342.3	11517.0	12837.8	13914.6	14416.5	15721.7	17831.8
60°	6305.5	6728.1	7268.9	8713.9	10429.4	12587.6	15112.6	16442.7	16817.2	18936.6
62.5°	4035.3	4296.4	4793.6	6154.8	8126.6	11305.7	15479.3	18975.5	18674.0	20748.4
65°	2762.7	2930.5	3385.8	4150.3	5253.5	8415.6	14497.3	20874.3	21623.2	23619.9
67.5°	2007.6	2135.0	2523.4	3193.1	3423.1	4980.1	11249.8	20787.2	24490.0	26578.4
70°	1463.7	1553.8	1880.1	2523.4	2633.8	2770.5	6815.1	17670.2	24427.9	27364.6
72.5°	1084.6	1146.7	1365.8	1957.8	2131.9	1870.8	3373.4	12842.5	20990.8	24751.1
75°	784.7	831.3	992.9	1497.9	1706.1	1424.9	1682.8	7505.0	14641.8	17410.8
77.5°	599.8	635.5	741.2	1097.0	1365.8	1069.0	1044.2	3452.6	6942.5	6976.7
80°	481.7	505.0	562.5	772.3	1047.3	800.2	680.6	1393.8	2194.0	1856.8
82.5°	354.3	393.1	475.5	542.3	748.9	551.6	414.9	703.9	834.4	717.9
85°	202.0	228.4	287.5	388.5	478.6	337.2	237.7	312.3	388.5	318.5
87.5°	71.5	93.2	101.0	152.3	208.2	139.8	91.7	90.1	127.4	94.8
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°
4293.3	0°	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3	4293.3
4339.9	2.5°	4324.3	4316.6	4285.5	4243.5	4200.0	4158.1	4144.1	4114.6	4094.4	4083.5
4440.9	5°	4411.3	4386.5	4313.5	4220.2	4122.3	4016.7	3942.1	3873.7	3824.0	3777.4
4579.2	7.5°	4535.7	4492.1	4366.3	4203.1	4029.1	3853.5	3723.0	3623.5	3556.7	3513.2
4740.8	10°	4680.2	4613.3	4420.7	4176.7	3907.9	3656.2	3502.4	3416.9	3374.9	3351.6
4925.7	12.5°	4846.4	4751.6	4476.6	4116.1	3723.0	3435.5	3329.9	3305.0	3306.6	3308.1
5158.7	15°	5051.5	4919.5	4521.7	3984.0	3482.2	3266.2	3247.5	3287.9	3329.9	3350.1
5422.9	17.5°	5283.0	5096.6	4529.4	3766.5	3246.0	3157.4	3216.4	3303.5	3367.2	3395.1
5718.1	20°	5531.7	5276.8	4473.5	3458.8	3051.7	3068.8	3174.5	3286.4	3356.3	3392.0
6055.3	22.5°	5816.0	5469.5	4339.9	3135.6	2893.2	2972.5	3096.8	3205.6	3278.6	3314.3
6451.5	25°	6140.8	5685.5	4130.1	2863.7	2756.5	2863.7	2988.0	3078.2	3137.2	3169.8
6894.4	27.5°	6501.3	5910.8	3850.4	2647.7	2636.9	2751.8	2854.4	2924.3	2955.4	2980.3
7365.2	30°	6863.3	6115.9	3511.7	2484.6	2532.8	2641.5	2714.6	2745.6	2755.0	2759.6
7890.4	32.5°	7254.9	6293.0	3155.8	2349.4	2433.3	2534.3	2577.8	2591.8	2548.3	2518.8
8527.5	35°	7728.8	6482.6	2807.8	2242.2	2335.4	2422.4	2436.4	2424.0	2372.7	2312.1
9326.1	37.5°	8314.6	6718.8	2529.6	2166.0	2243.7	2301.2	2284.1	2281.0	2285.7	2214.2
10286.4	40°	9032.5	7026.5	2326.1	2107.0	2169.2	2181.6	2133.4	2159.8	2183.1	2074.4
11339.9	42.5°	9829.6	7397.8	2197.1	2066.6	2107.0	2077.5	2002.9	2032.4	2029.3	1886.4
12398.1	45°	10642.2	7801.8	2152.1	2037.1	2049.5	1990.5	1908.1	1915.9	1850.6	1721.7
13412.7	47.5°	11450.2	8235.3	2180.0	2012.2	1978.0	1911.2	1847.5	1813.3	1717.0	1620.7
14385.4	50°	12242.7	8690.6	2282.6	1962.5	1880.1	1841.3	1794.7	1734.1	1631.5	1549.2
15305.3	52.5°	12977.7	9149.0	2397.6	1880.1	1757.4	1780.7	1751.2	1681.3	1580.3	1496.3
16175.5	55°	13673.8	9607.4	2442.6	1766.7	1642.4	1727.9	1710.8	1581.8	1460.6	1392.2
17086.0	57.5°	14432.0	10159.0	2392.9	1622.2	1549.2	1667.3	1602.0	1459.1	1389.1	1337.9
18271.6	60°	15482.4	11024.5	2285.7	1443.5	1460.6	1577.1	1465.3	1406.2	1330.1	1272.6
20049.2	62.5°	17227.4	12638.9	2113.2	1266.4	1356.5	1443.5	1400.0	1341.0	1263.3	1207.3
23088.5	65°	19806.8	14882.7	1788.5	1128.1	1240.0	1313.0	1330.1	1271.0	1190.2	1131.2
25751.8	67.5°	21982.1	16290.4	1353.4	1013.1	1120.3	1207.3	1255.5	1198.0	1112.5	1055.1
26374.8	70°	21862.5	15268.0	1033.3	899.7	1014.7	1103.2	1165.4	1120.3	1028.6	974.3
23957.1	72.5°	19418.3	12772.5	836.0	784.7	907.4	994.5	1069.0	1034.9	941.6	888.8
17550.6	75°	14265.8	9066.6	668.2	668.2	773.8	881.0	963.4	941.6	856.2	818.9
7368.3	77.5°	6013.4	3803.8	523.6	554.7	643.3	756.7	859.3	867.0	792.5	839.1
1948.5	80°	1598.9	1048.8	399.3	436.6	505.0	624.6	747.4	744.3	663.5	620.0
724.1	82.5°	609.1	413.3	284.4	307.7	365.2	478.6	592.0	610.7	529.9	458.4
284.4	85°	234.6	177.1	175.6	184.9	212.9	317.0	447.5	463.0	399.3	338.7
79.2	87.5°	60.6	52.8	65.3	62.2	97.9	169.4	256.4	265.7	244.0	141.4
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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<u>180°</u>
4293.3
4095.9
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3522.6
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3311.2
3348.5
3401.4
3401.4
3323.7
3179.2
2989.6
2770.5
2528.1
2315.2
2218.9
2077.5
1884.8
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1620.7
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1497.9
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