

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: P956589

Luminaire Tested: **GALN-SB9A-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29549 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

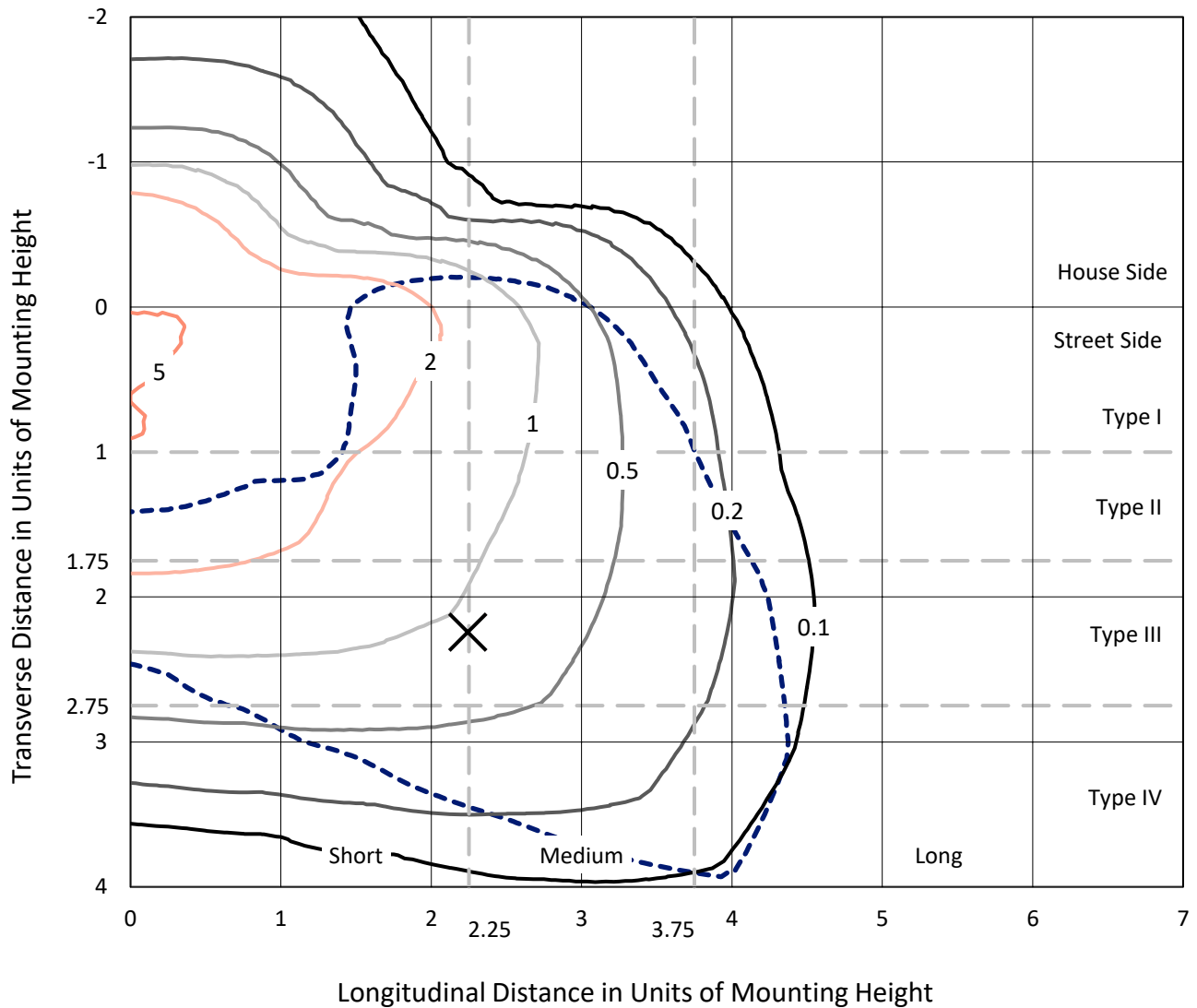
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

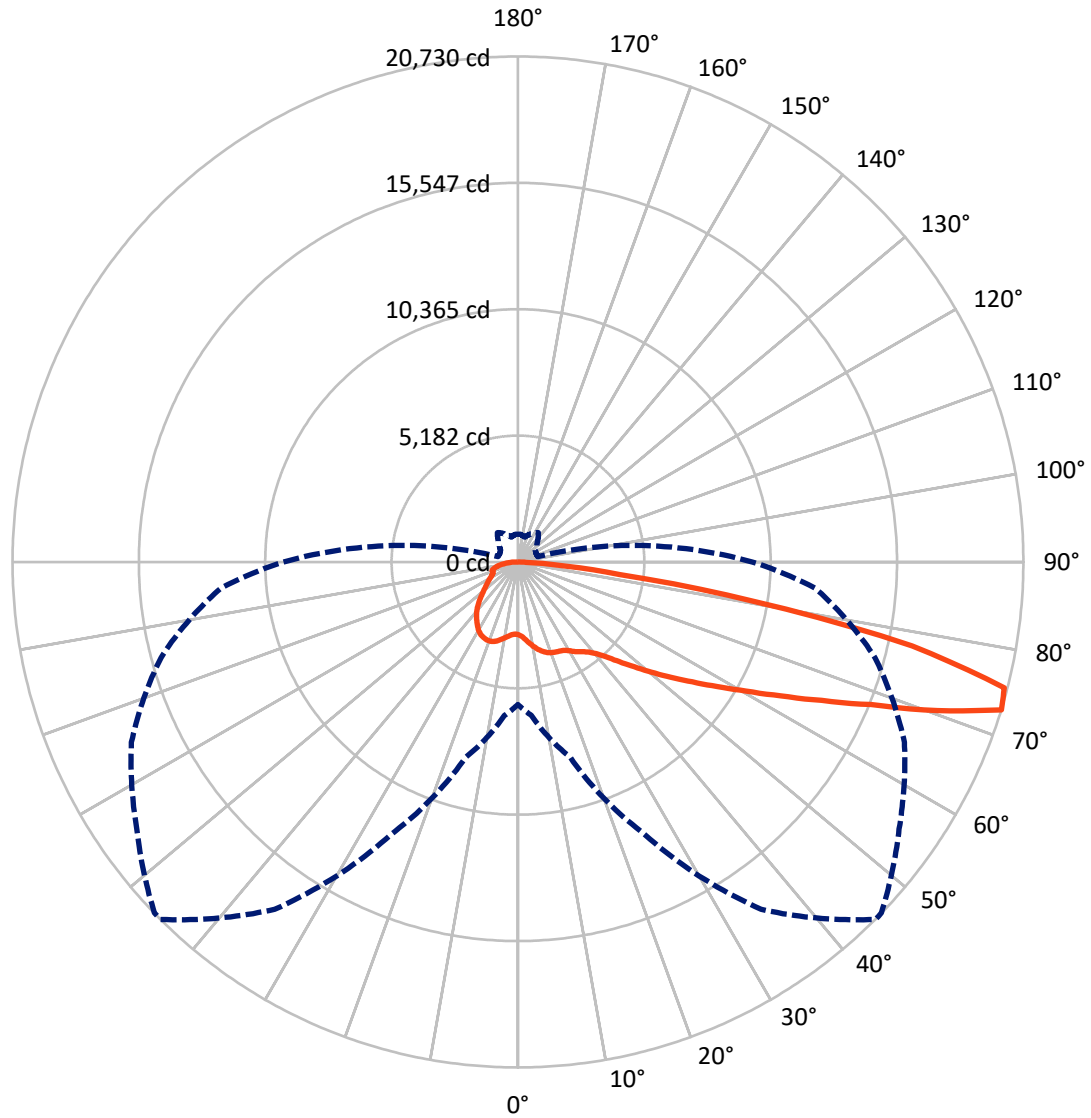
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6680.0	0.0	6680.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22869.0	0.0	22869.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	29549.0	0.0	29549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.0
10°-20°	1011.6	3.4
20°-30°	1759.7	6.0
30°-40°	2522.6	8.5
40°-50°	3552.0	12.0
50°-60°	5440.6	18.4
60°-70°	7881.5	26.7
70°-80°	6293.8	21.3
80°-90°	783.9	2.7
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°	29549.0	100.0
0°-180°	29549.0	100.0



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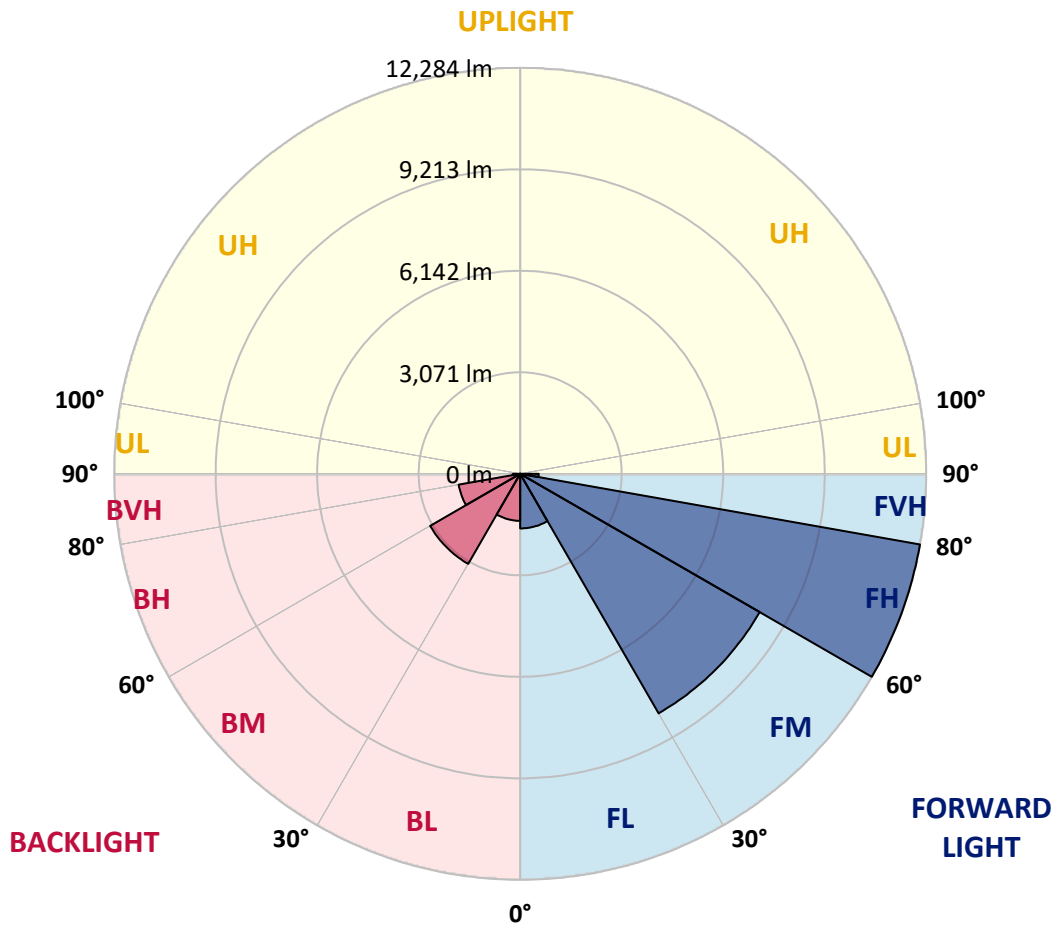
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.4	5.6			
FM (30°-60°)	8369.8	28.3			
FH (60°-80°)	12284.4	41.6			G5
FVH (80°-90°)	562.4	1.9			G4/750
BL (0°-30°)	1422.2	4.8	B3/2500		
BM (30°-60°)	3145.3	10.6	B3/5000		
BH (60°-80°)	1890.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	221.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9
2.5°	3097.7	3117.9	3099.2	3082.1	3074.3	3054.1	3052.5	3040.1	3032.3	3010.5
5°	3314.0	3340.5	3309.4	3275.1	3244.0	3194.2	3187.9	3152.1	3111.7	3065.0
7.5°	3558.4	3581.8	3546.0	3494.6	3440.1	3357.6	3356.1	3290.7	3226.9	3147.5
10°	3771.7	3802.8	3754.6	3684.5	3616.0	3522.6	3511.7	3437.0	3356.1	3253.3
12.5°	3960.0	3981.8	3935.1	3849.5	3770.1	3676.7	3662.7	3580.2	3489.9	3373.2
15°	4109.5	4137.5	4075.2	3983.4	3899.3	3807.5	3795.0	3720.3	3630.0	3507.1
17.5°	4207.5	4230.9	4167.1	4064.3	3983.4	3907.1	3897.8	3835.5	3756.1	3631.6
20°	4244.9	4269.8	4202.9	4098.6	4023.9	3964.7	3960.0	3914.9	3860.4	3746.8
22.5°	4282.2	4305.6	4218.4	4109.5	4044.1	4006.7	4005.2	3975.6	3953.8	3860.4
25°	4433.2	4439.5	4322.7	4165.5	4072.1	4039.4	4037.9	4036.3	4045.6	3972.5
27.5°	4564.0	4562.4	4462.8	4314.9	4170.2	4101.7	4100.1	4115.7	4145.3	4084.6
30°	4755.5	4738.3	4620.0	4465.9	4333.6	4227.8	4218.4	4204.4	4227.8	4179.5
32.5°	5161.7	5107.3	4915.8	4641.8	4469.0	4388.1	4375.6	4288.5	4297.8	4268.2
35°	5743.9	5672.3	5417.0	4974.9	4637.2	4522.0	4515.7	4405.2	4386.5	4360.1
37.5°	6436.6	6347.9	6050.6	5457.5	4926.7	4677.6	4668.3	4568.7	4492.4	4464.4
40°	7132.4	7020.3	6774.4	6045.9	5353.2	4937.6	4908.0	4757.0	4669.8	4623.1
42.5°	7808.0	7714.6	7504.4	6705.9	5879.3	5317.4	5252.0	4993.6	4928.2	4884.7
45°	8405.7	8321.7	8167.6	7411.0	6495.8	5834.2	5770.4	5348.5	5328.3	5328.3
47.5°	8891.4	8872.7	8709.3	8130.2	7222.7	6422.6	6312.1	5842.0	5896.5	5980.5
50°	9430.0	9378.6	9204.3	8838.5	8077.3	7096.6	7006.3	6447.5	6651.4	6881.8
52.5°	9925.0	9953.0	9758.4	9576.3	9042.4	7848.5	7689.7	7162.0	7602.5	7983.9
55°	10434.0	10435.6	10381.1	10356.2	10054.2	8679.7	8505.3	8021.2	8721.7	9194.9
57.5°	10911.9	10915.0	10995.9	11215.4	11227.9	9638.6	9440.9	9076.6	9965.5	10448.0
60°	11338.4	11360.2	11581.2	12094.9	12259.9	10737.5	10550.7	10323.5	11251.2	11736.9
62.5°	11481.6	11561.0	12052.9	12782.9	13279.5	12085.6	11901.9	11766.5	12602.4	13053.8
65°	11238.8	11420.9	12372.0	13351.1	14328.6	13687.3	13505.2	13357.3	14006.4	14431.4
67.5°	10642.6	10877.6	12353.3	13947.3	15602.0	15614.4	15444.7	15097.6	15511.7	15675.1
70°	9072.0	9423.8	11265.2	14169.9	17063.6	18249.8	18086.3	17192.8	17013.8	16223.0
72.5°	5845.1	6318.3	8295.2	12337.7	17389.0	20729.5	20720.1	19084.1	17488.6	15158.3
75°	2132.6	2422.1	3854.2	7744.2	14596.4	20603.4	20664.1	18760.3	15964.7	11708.9
77.5°	776.8	849.9	1257.7	2976.2	8977.0	16531.3	16657.3	14998.0	11363.3	5876.2
80°	407.8	448.3	644.4	1155.0	3846.4	9817.6	10015.3	8913.2	5340.7	1769.9
82.5°	225.7	244.4	361.1	627.3	1732.5	4198.2	4316.5	3521.1	1878.8	750.3
85°	121.4	129.2	169.7	342.5	846.8	1455.4	1488.1	1052.3	748.7	440.5
87.5°	35.8	43.6	56.0	109.0	331.6	326.9	334.7	208.6	295.8	222.6
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°
2980.9	0°	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9	2980.9
3004.3	2.5°	2994.9	2990.3	2973.1	2965.4	2956.0	2954.5	2962.2	2963.8	2965.4	2966.9
3038.5	5°	3022.9	3007.4	2991.8	2982.5	2985.6	2987.1	3002.7	3013.6	3021.4	3027.6
3102.3	7.5°	3077.4	3065.0	3038.5	3037.0	3041.6	3055.6	3075.9	3100.8	3114.8	3125.7
3184.8	10°	3158.4	3135.0	3103.9	3108.6	3117.9	3138.1	3180.2	3200.4	3223.8	3244.0
3286.0	12.5°	3240.9	3220.6	3184.8	3187.9	3203.5	3239.3	3279.8	3304.7	3320.3	3335.8
3395.0	15°	3348.3	3312.5	3273.6	3273.6	3301.6	3340.5	3359.2	3379.4	3388.8	3405.9
3511.7	17.5°	3458.8	3412.1	3360.7	3357.6	3391.9	3410.5	3421.4	3424.6	3427.7	3446.3
3625.4	20°	3569.3	3518.0	3444.8	3438.6	3446.3	3443.2	3441.7	3438.6	3443.2	3466.6
3742.1	22.5°	3678.3	3619.1	3518.0	3489.9	3468.1	3438.6	3437.0	3435.5	3438.6	3461.9
3868.2	25°	3805.9	3734.3	3598.9	3514.8	3441.7	3401.2	3405.9	3407.4	3410.5	3429.2
3998.9	27.5°	3944.5	3865.1	3673.6	3507.1	3374.7	3346.7	3338.9	3343.6	3354.5	3384.1
4129.7	30°	4083.0	3989.6	3742.1	3475.9	3290.7	3251.8	3226.9	3237.8	3272.0	3301.6
4243.3	32.5°	4209.1	4115.7	3796.6	3407.4	3183.3	3122.6	3089.9	3103.9	3138.1	3149.0
4369.4	35°	4357.0	4251.1	3819.9	3298.5	3066.5	2973.1	2929.6	2909.3	2926.4	2915.5
4517.3	37.5°	4522.0	4411.4	3816.8	3155.3	2929.6	2822.1	2761.4	2685.2	2649.4	2612.0
4735.2	40°	4766.4	4607.6	3779.5	2982.5	2759.9	2661.8	2552.8	2423.7	2342.7	2269.5
5087.0	42.5°	5099.5	4880.0	3711.0	2792.6	2568.4	2476.6	2328.7	2177.7	2050.1	1928.6
5620.9	45°	5596.0	5236.5	3625.4	2590.2	2361.4	2271.1	2110.8	1941.1	1796.3	1640.7
6379.0	47.5°	6312.1	5715.9	3544.4	2359.8	2143.5	2061.0	1916.2	1759.0	1587.7	1436.8
7474.9	50°	7295.9	6403.9	3469.7	2135.7	1928.6	1866.4	1751.2	1590.9	1418.1	1296.7
8759.1	52.5°	8547.4	7339.4	3438.6	1919.3	1727.8	1704.5	1612.7	1463.2	1299.8	1197.0
10256.5	55°	9984.1	8458.6	3438.6	1712.3	1551.9	1559.7	1495.9	1357.4	1215.7	1123.9
11800.7	57.5°	11450.5	9591.9	3376.3	1520.8	1402.5	1435.2	1394.7	1273.3	1145.7	1050.7
13424.3	60°	12801.6	10541.4	3124.1	1346.5	1270.2	1321.6	1295.1	1190.8	1035.1	955.8
14781.6	62.5°	13839.9	11076.9	2638.5	1207.9	1161.2	1220.4	1206.4	1081.8	1014.9	982.2
15896.2	65°	14359.8	10989.7	2017.4	1085.0	1069.4	1161.2	1131.7	1127.0	1074.1	1036.7
16258.9	67.5°	14040.7	10239.4	1463.2	994.7	1016.5	1106.8	1220.4	1239.1	1141.0	1067.8
15237.7	70°	12641.3	8882.0	1089.6	909.1	949.5	1108.3	1391.6	1296.7	1119.2	1033.6
12221.0	72.5°	9616.8	6623.4	845.2	818.8	862.4	1116.1	1467.9	1270.2	1056.9	1142.6
7613.4	75°	5499.5	3636.3	678.7	708.3	753.4	1042.9	1429.0	1201.7	1008.7	1049.2
3016.7	77.5°	2096.8	1397.8	560.4	599.3	605.5	910.6	1366.7	1197.0	960.4	937.1
904.4	80°	726.9	546.4	463.9	476.3	468.5	809.4	1310.7	1041.4	786.1	703.6
373.6	82.5°	297.3	272.4	367.4	351.8	333.1	628.9	1058.5	851.5	642.9	568.2
180.6	85°	129.2	172.8	242.8	213.3	193.0	435.9	848.4	720.7	543.3	468.5
59.2	87.5°	26.5	65.4	102.7	96.5	99.6	291.1	602.4	512.1	384.5	288.0
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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180°
2980.9
2973.1
3030.7
3128.8
3239.3
3342.1
3412.1
3452.6
3475.9
3477.5
3454.1
3413.7
3334.3
3187.9
2949.8
2635.4
2274.2
1917.8
1622.0
1419.6
1288.9
1189.3
1114.5
1035.1
943.3
971.3
1024.3
1055.4
1019.6
1133.2
1049.2
854.6
680.2
561.9
467.0
225.7
0.0

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