

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: P951444

Luminaire Tested: **GALN-SB5C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951444
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-SB5C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33926 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

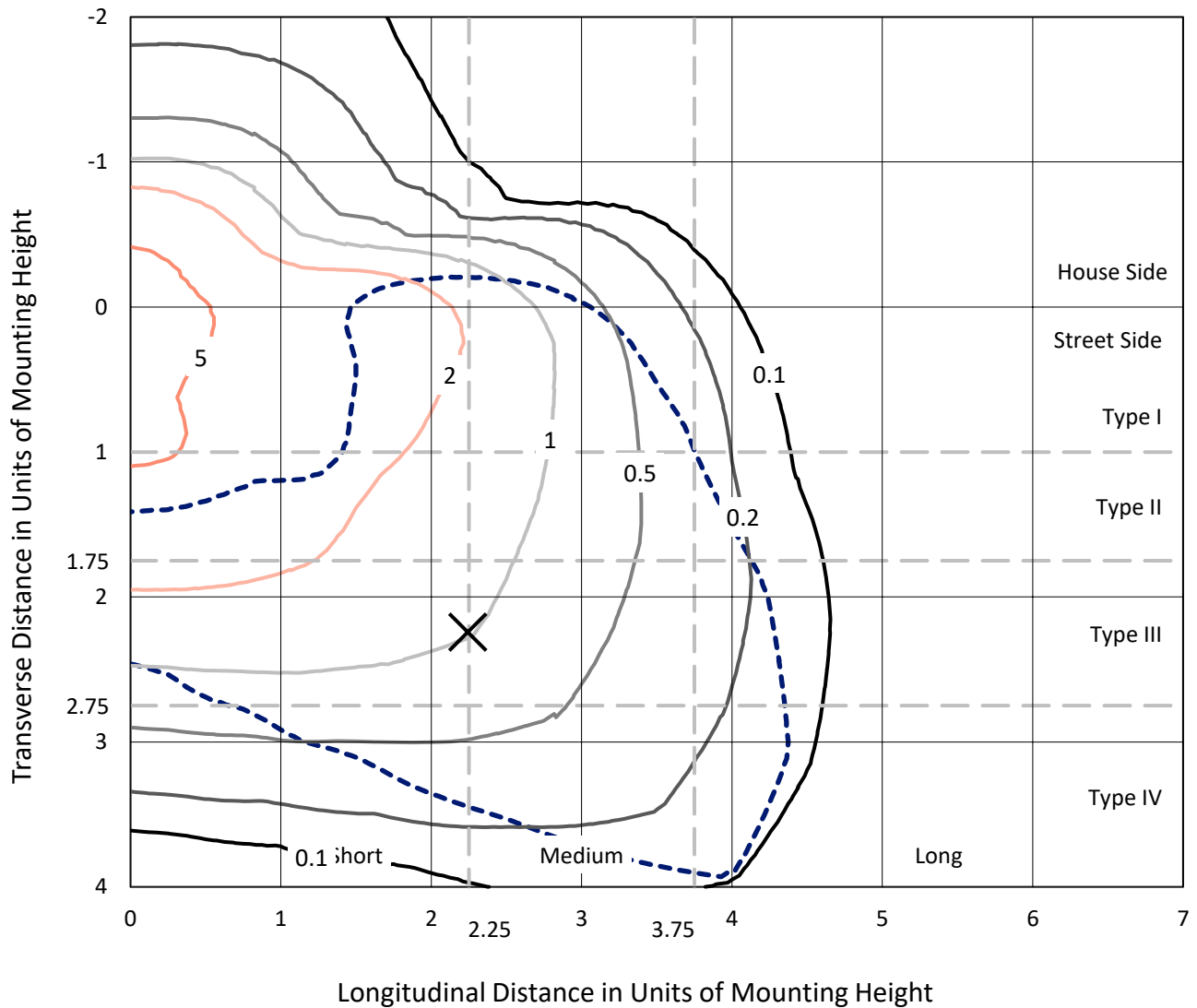
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

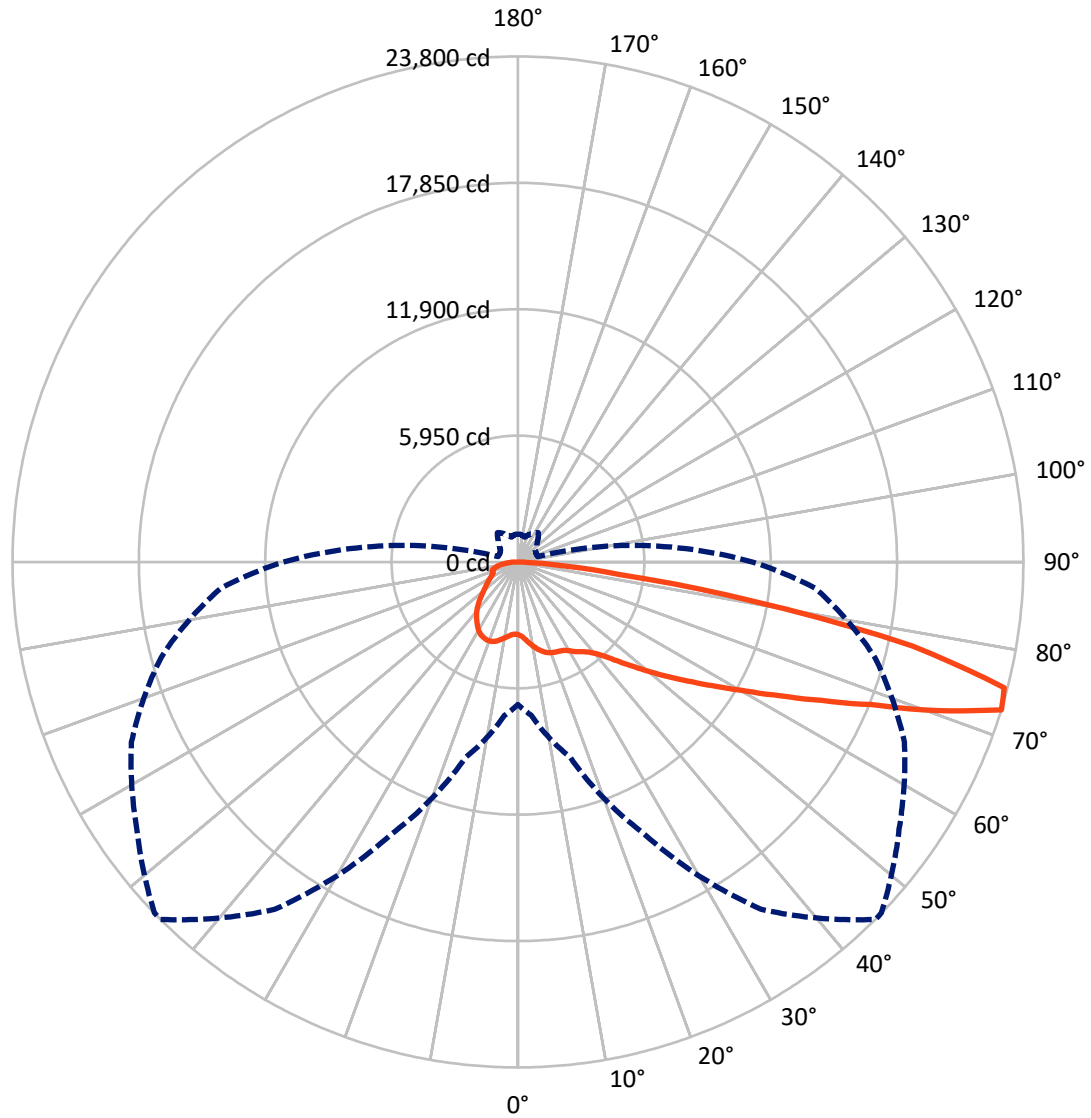
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	7669.5	0.0	7669.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26256.5	0.0	26256.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	33926.0	0.0	33926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.0
10°-20°	1161.4	3.4
20°-30°	2020.3	6.0
30°-40°	2896.3	8.5
40°-50°	4078.1	12.0
50°-60°	6246.5	18.4
60°-70°	9048.9	26.7
70°-80°	7226.1	21.3
80°-90°	900.0	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°	33926.0	100.0
0°-180°	33926.0	100.0

Coefficient of Utilization



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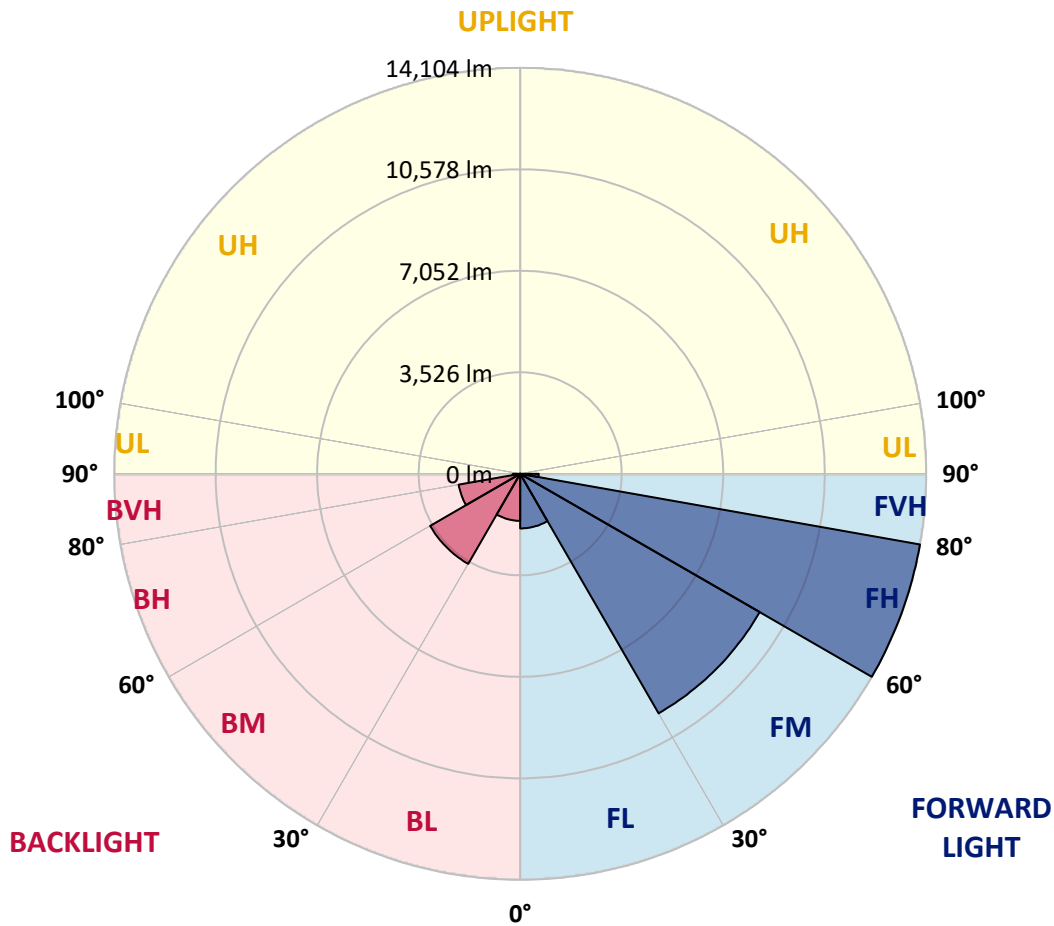
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1897.2	5.6			
FM (30°-60°)	9609.6	28.3			
FH (60°-80°)	14104.0	41.6			G5
FVH (80°-90°)	645.7	1.9			G4/750
BL (0°-30°)	1632.9	4.8	B3/2500		
BM (30°-60°)	3611.2	10.6	B3/5000		
BH (60°-80°)	2171.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	254.3	0.7			G3/500
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°	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5
2.5°	3556.5	3579.7	3558.3	3538.6	3529.7	3506.5	3504.7	3490.4	3481.5	3456.4
5°	3804.9	3835.3	3799.6	3760.3	3724.5	3667.3	3660.2	3619.1	3572.6	3519.0
7.5°	4085.5	4112.3	4071.2	4012.2	3949.7	3855.0	3853.2	3778.1	3704.8	3613.7
10°	4330.4	4366.1	4310.7	4230.3	4151.6	4044.4	4031.9	3946.1	3853.2	3735.2
12.5°	4546.6	4571.6	4518.0	4419.7	4328.6	4221.3	4205.3	4110.5	4006.9	3872.8
15°	4718.2	4750.4	4678.9	4573.4	4476.9	4371.5	4357.2	4271.4	4167.7	4026.5
17.5°	4830.8	4857.6	4784.3	4666.4	4573.4	4485.9	4475.1	4403.6	4312.5	4169.5
20°	4873.7	4902.3	4825.4	4705.7	4619.9	4552.0	4546.6	4494.8	4432.2	4301.8
22.5°	4916.6	4943.4	4843.3	4718.2	4643.1	4600.2	4598.4	4564.5	4539.5	4432.2
25°	5089.9	5097.1	4963.0	4782.5	4675.3	4637.8	4636.0	4634.2	4644.9	4560.9
27.5°	5240.0	5238.3	5123.9	4954.1	4787.9	4709.3	4707.5	4725.3	4759.3	4689.6
30°	5459.9	5440.2	5304.4	5127.5	4975.5	4854.0	4843.3	4827.2	4854.0	4798.6
32.5°	5926.3	5863.8	5644.0	5329.4	5131.0	5038.1	5023.8	4923.7	4934.4	4900.5
35°	6594.7	6512.5	6219.4	5711.9	5324.0	5191.8	5184.6	5057.8	5036.3	5005.9
37.5°	7390.0	7288.2	6946.8	6265.9	5656.5	5370.5	5359.8	5245.4	5157.8	5125.7
40°	8188.9	8060.2	7777.9	6941.5	6146.2	5669.0	5635.0	5461.7	5361.6	5308.0
42.5°	8964.6	8857.3	8616.1	7699.2	6750.2	6105.0	6030.0	5733.3	5658.3	5608.2
45°	9650.8	9554.3	9377.4	8508.8	7458.0	6698.4	6625.1	6140.8	6117.6	6117.6
47.5°	10208.4	10187.0	9999.3	9334.5	8292.6	7374.0	7247.1	6707.3	6769.9	6866.4
50°	10826.8	10767.8	10567.7	10147.7	9273.7	8147.8	8044.2	7402.6	7636.7	7901.2
52.5°	11395.1	11427.3	11203.9	10994.8	10381.8	9011.0	8828.7	8222.9	8728.6	9166.5
55°	11979.5	11981.3	11918.8	11890.2	11543.5	9965.4	9765.2	9209.4	10013.6	10556.9
57.5°	12528.2	12531.8	12624.7	12876.7	12891.0	11066.3	10839.3	10421.1	11441.6	11995.6
60°	13017.9	13042.9	13296.7	13886.5	14075.9	12328.1	12113.6	11852.7	12917.8	13475.4
62.5°	13182.3	13273.5	13838.2	14676.4	15246.5	13875.8	13664.9	13509.4	14469.1	14987.4
65°	12903.5	13112.6	14204.6	15328.7	16451.1	15714.8	15505.7	15335.9	16081.2	16569.1
67.5°	12219.0	12488.9	14183.2	16013.2	17913.0	17927.3	17732.5	17334.0	17809.4	17997.0
70°	10415.8	10819.7	12933.9	16268.8	19591.2	20953.0	20765.4	19739.5	19534.0	18626.1
72.5°	6710.9	7254.2	9523.9	14165.3	19964.7	23800.0	23789.3	21911.0	20079.1	17403.7
75°	2448.5	2780.9	4425.1	8891.3	16758.5	23655.3	23725.0	21539.2	18329.4	13443.3
77.5°	891.8	975.8	1444.1	3417.1	10306.7	18980.0	19124.7	17219.6	13046.5	6746.7
80°	468.2	514.7	739.9	1326.1	4416.2	11271.8	11498.8	10233.5	6131.9	2032.0
82.5°	259.1	280.6	414.6	720.2	1989.1	4820.1	4955.9	4042.6	2157.1	861.4
85°	139.4	148.3	194.8	393.2	972.2	1671.0	1708.6	1208.1	859.6	505.8
87.5°	41.1	50.0	64.3	125.1	380.7	375.3	384.2	239.5	339.6	255.6
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°
3422.5	0°	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5	3422.5
3449.3	2.5°	3438.6	3433.2	3413.5	3404.6	3393.9	3392.1	3401.0	3402.8	3404.6	3406.4
3488.6	5°	3470.7	3452.9	3435.0	3424.3	3427.8	3429.6	3447.5	3460.0	3468.9	3476.1
3561.9	7.5°	3533.3	3519.0	3488.6	3486.8	3492.2	3508.3	3531.5	3560.1	3576.2	3588.7
3656.6	10°	3626.2	3599.4	3563.7	3569.0	3579.7	3603.0	3651.2	3674.5	3701.3	3724.5
3772.8	12.5°	3720.9	3697.7	3656.6	3660.2	3678.0	3719.1	3765.6	3794.2	3812.1	3830.0
3897.9	15°	3844.3	3803.1	3758.5	3758.5	3790.6	3835.3	3856.8	3880.0	3890.7	3910.4
4031.9	17.5°	3971.1	3917.5	3858.5	3855.0	3894.3	3915.7	3928.2	3931.8	3935.4	3956.8
4162.4	20°	4098.0	4039.1	3955.1	3947.9	3956.8	3953.3	3951.5	3947.9	3953.3	3980.1
4296.4	22.5°	4223.1	4155.2	4039.1	4006.9	3981.9	3947.9	3946.1	3944.3	3947.9	3974.7
4441.2	25°	4369.7	4287.5	4132.0	4035.5	3951.5	3905.0	3910.4	3912.2	3915.7	3937.2
4591.3	27.5°	4528.7	4437.6	4217.8	4026.5	3874.6	3842.5	3833.5	3838.9	3851.4	3885.4
4741.4	30°	4687.8	4580.6	4296.4	3990.8	3778.1	3733.4	3704.8	3717.4	3756.7	3790.6
4871.9	32.5°	4832.6	4725.3	4359.0	3912.2	3654.8	3585.1	3547.6	3563.7	3603.0	3615.5
5016.6	35°	5002.4	4880.8	4385.8	3787.1	3520.8	3413.5	3363.5	3340.3	3359.9	3347.4
5186.4	37.5°	5191.8	5064.9	4382.2	3622.6	3363.5	3240.2	3170.5	3082.9	3041.8	2998.9
5436.6	40°	5472.4	5290.1	4339.3	3424.3	3168.7	3056.1	2931.0	2782.7	2689.7	2605.7
5840.5	42.5°	5854.8	5602.8	4260.7	3206.2	2948.9	2843.4	2673.6	2500.3	2353.7	2214.3
6453.6	45°	6425.0	6012.1	4162.4	2973.9	2711.2	2607.5	2423.4	2228.6	2062.4	1883.7
7323.9	47.5°	7247.1	6562.6	4069.4	2709.4	2461.0	2366.2	2200.0	2019.5	1822.9	1649.6
8582.1	50°	8376.6	7352.5	3983.7	2452.0	2214.3	2142.8	2010.6	1826.5	1628.1	1488.7
10056.5	52.5°	9813.5	8426.6	3947.9	2203.6	1983.8	1957.0	1851.5	1680.0	1492.3	1374.4
11775.8	55°	11463.1	9711.6	3947.9	1965.9	1781.8	1790.8	1717.5	1558.4	1395.8	1290.4
13548.7	57.5°	13146.6	11012.7	3876.4	1746.1	1610.3	1647.8	1601.3	1461.9	1315.4	1206.4
15412.7	60°	14697.9	12102.9	3586.9	1545.9	1458.3	1517.3	1486.9	1367.2	1188.5	1097.3
16971.2	62.5°	15889.9	12717.7	3029.3	1386.9	1333.2	1401.2	1385.1	1242.1	1165.2	1127.7
18250.8	65°	16486.8	12617.6	2316.2	1245.7	1227.8	1333.2	1299.3	1293.9	1233.2	1190.3
18667.2	67.5°	16120.5	11756.2	1680.0	1142.0	1167.0	1270.7	1401.2	1422.6	1310.0	1226.0
17494.8	70°	14513.8	10197.7	1251.0	1043.7	1090.2	1272.5	1597.7	1488.7	1285.0	1186.7
14031.2	72.5°	11041.3	7604.5	970.4	940.1	990.1	1281.4	1685.3	1458.3	1213.5	1311.8
8741.2	75°	6314.2	4174.9	779.2	813.2	865.0	1197.4	1640.6	1379.7	1158.1	1204.6
3463.6	77.5°	2407.3	1604.9	643.4	688.1	695.2	1045.5	1569.2	1374.4	1102.7	1075.9
1038.4	80°	834.6	627.3	532.6	546.9	537.9	929.3	1504.8	1195.6	902.5	807.8
428.9	82.5°	341.4	312.8	421.8	403.9	382.5	722.0	1215.3	977.6	738.1	652.3
207.3	85°	148.3	198.4	278.8	244.8	221.6	500.4	974.0	827.5	623.7	537.9
67.9	87.5°	30.4	75.1	118.0	110.8	114.4	334.2	691.6	588.0	441.4	330.6
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>
3422.5
3413.5
3479.7
3592.3
3719.1
3837.1
3917.5
3964.0
3990.8
3992.6
3965.8
3919.3
3828.2
3660.2
3386.7
3025.7
2611.1
2201.8
1862.3
1629.9
1479.8
1365.4
1279.6
1188.5
1083.0
1115.2
1176.0
1211.7
1170.6
<i>1301.1</i>
1204.6
981.2
781.0
645.2
536.2
259.1
0.0

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