

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: P952553

Luminaire Tested: **GALN-SB6B-840-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-840-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33100 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

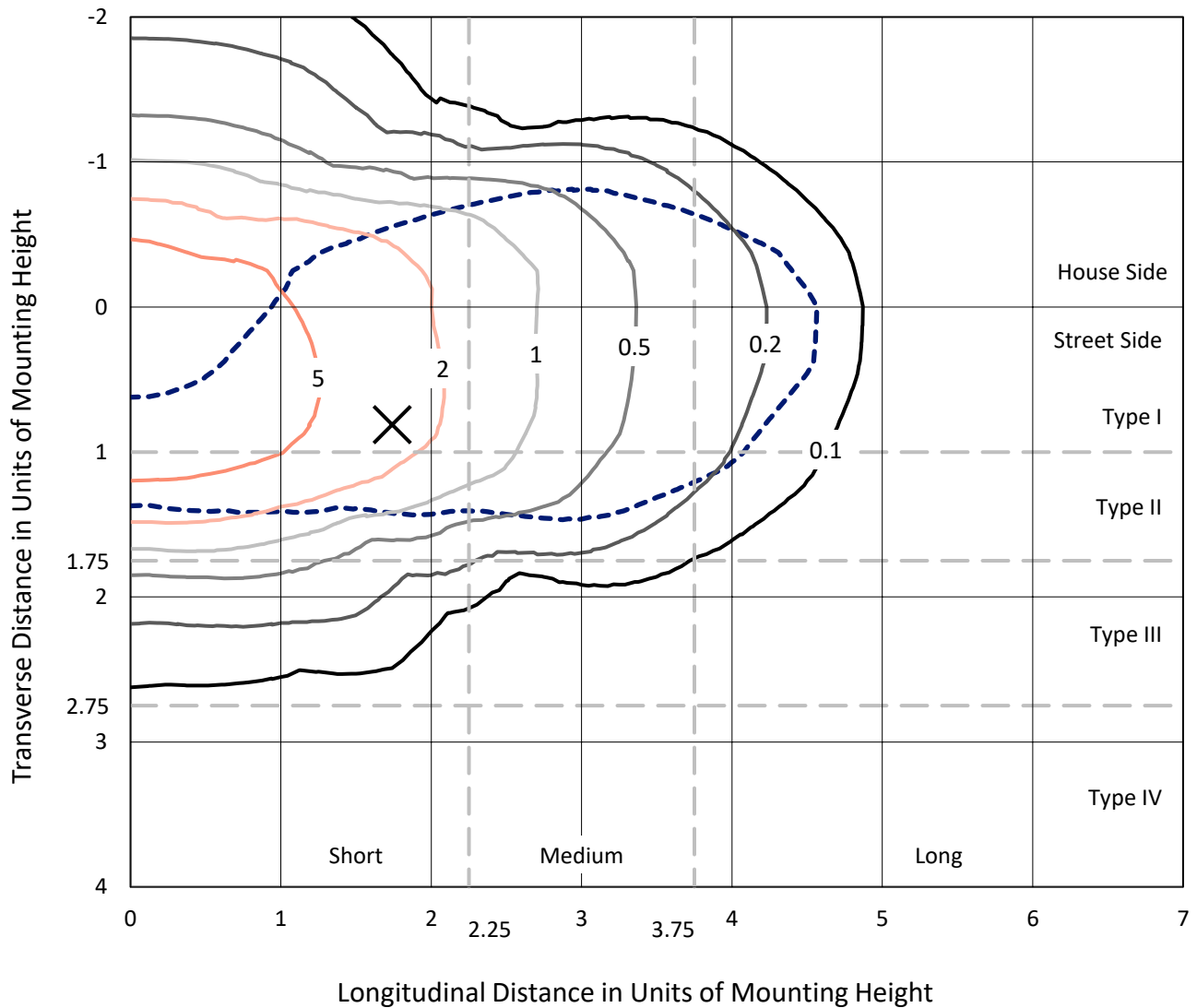
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

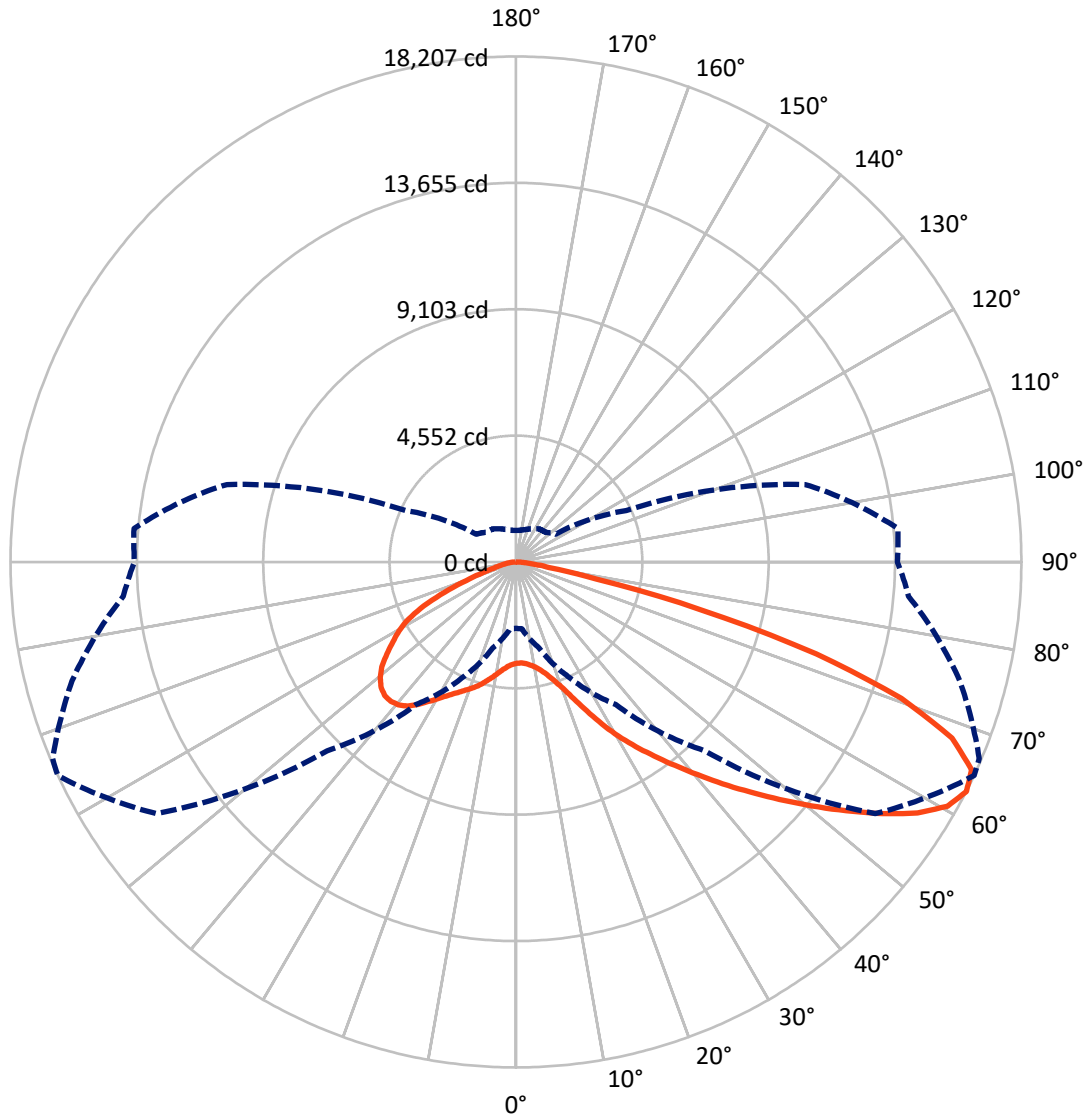
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10444.9	0.0	10444.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	22655.1	0.0	22655.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	33100.0	0.0	33100.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	1.1
10°-20°	1233.2	3.7
20°-30°	2500.4	7.6
30°-40°	4326.9	13.1
40°-50°	6547.9	19.8
50°-60°	7677.0	23.2
60°-70°	6436.2	19.4
70°-80°	3553.3	10.7
80°-90°	461.6	1.4
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°	33100.0	100.0
0°-180°	33100.0	100.0

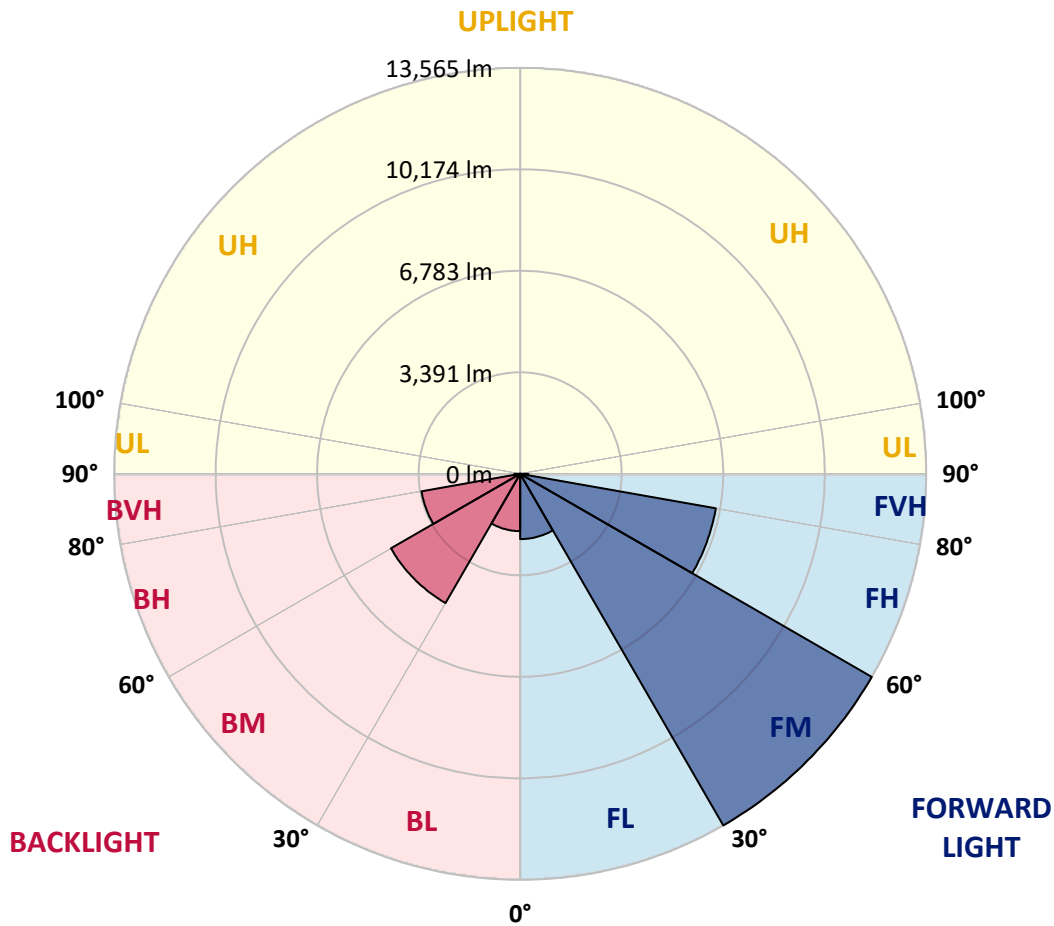


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.7	6.6			
FM (30°-60°)	13565.5	41.0			
FH (60°-80°)	6638.9	20.1			G3/7500
FVH (80°-90°)	269.0	0.8			G3/500
BL (0°-30°)	1915.5	5.8	B3/2500		
BM (30°-60°)	4986.3	15.1	B3/5000		
BH (60°-80°)	3350.6	10.1	B4/5000		G4/5000
BVH (80°-90°)	192.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
2.5°	3623.4	3613.1	3621.7	3621.7	3625.2	3623.4	3635.5	3638.9	3644.0	3654.3
5°	3587.4	3585.7	3601.1	3614.8	3628.6	3640.6	3656.1	3678.4	3681.8	3693.8
7.5°	3575.4	3565.0	3589.1	3606.3	3638.9	3668.1	3709.3	3747.1	3762.5	3767.7
10°	3668.1	3650.9	3673.2	3683.5	3711.0	3740.2	3788.3	3848.4	3865.6	3886.2
12.5°	3826.1	3807.2	3839.8	3855.3	3881.0	3906.8	3939.4	3997.8	4006.4	4044.2
15°	4042.4	4020.1	4040.7	4059.6	4102.6	4126.6	4159.2	4215.9	4215.9	4245.1
17.5°	4336.1	4306.9	4322.4	4329.2	4356.7	4392.8	4447.7	4497.5	4523.3	4513.0
20°	4774.0	4737.9	4737.9	4703.6	4693.3	4722.5	4794.6	4863.3	4890.8	4837.5
22.5°	5431.7	5380.2	5351.0	5234.2	5187.9	5191.3	5263.4	5347.6	5369.9	5275.4
25°	6268.0	6187.3	6147.8	5976.1	5871.3	5780.3	5837.0	5945.2	5976.1	5859.3
27.5°	7104.3	7109.5	7071.7	6865.6	6692.2	6525.6	6496.4	6609.8	6642.4	6510.2
30°	8277.2	8155.3	8083.2	7835.9	7588.6	7355.1	7234.8	7281.2	7289.8	7131.8
32.5°	9288.7	9257.8	9103.2	8886.9	8569.2	8203.4	8002.5	7928.6	7914.9	7689.9
35°	10441.0	10423.8	10260.7	10003.1	9659.6	9151.3	8789.0	8577.8	8560.6	8244.6
37.5°	11612.2	11612.2	11452.5	11170.8	10815.4	10180.0	9628.7	9293.9	9238.9	8826.8
40°	12546.4	12489.7	12518.9	12400.4	11993.4	11318.5	10561.2	10075.2	10001.4	9506.8
42.5°	13077.0	13058.1	13233.3	13365.5	13198.9	12659.7	11588.1	10921.8	10818.8	10255.5
45°	13195.5	13174.9	13487.4	13971.7	14205.2	13983.7	12704.3	11813.1	11687.7	11038.6
47.5°	12922.4	12881.2	13339.7	14103.9	14852.6	15242.5	13913.3	12779.9	12597.9	11801.1
50°	12101.6	12062.1	12755.9	13770.8	15070.7	16097.7	15225.3	13805.1	13526.9	12618.5
52.5°	10317.3	10336.2	11423.3	12817.7	14784.0	16630.0	16355.3	14885.3	14550.4	13454.8
55°	8036.8	8078.0	9414.1	10949.3	13636.8	16549.3	17126.3	15998.1	15664.9	14241.3
57.5°	5754.6	5936.6	7188.5	8708.3	11433.6	15269.9	17294.6	17055.9	16733.1	15099.9
60°	3729.9	3762.5	5050.5	6582.3	8706.5	12996.3	16952.9	17857.9	17605.4	15975.7
62.5°	2390.4	2412.8	3197.6	4604.0	6266.3	9615.0	15802.3	18206.5	18129.2	16554.5
65°	1756.8	1739.6	2148.3	3043.0	4221.0	5929.7	13568.1	18038.2	18191.0	16916.8
67.5°	1466.5	1442.5	1643.4	2107.1	3110.0	3367.6	10039.1	16944.3	17504.1	16875.6
70°	1336.0	1315.4	1437.4	1564.4	2426.5	2254.8	5060.8	14730.7	15592.8	16406.8
72.5°	1131.7	1095.6	1262.2	1389.3	1887.3	1729.3	2091.6	11315.1	12366.0	14904.2
75°	877.5	853.5	996.0	1222.7	1418.5	1349.8	1322.3	6870.8	8017.9	11526.3
77.5°	695.5	662.9	793.4	953.1	1275.9	1018.3	963.4	2958.9	4095.7	7358.5
80°	523.8	494.6	602.8	753.9	980.6	767.6	623.4	1207.2	1543.8	3728.2
82.5°	372.6	346.9	420.7	553.0	659.4	688.6	383.0	676.6	760.7	1437.4
85°	238.7	223.2	281.6	346.9	419.0	443.1	233.5	353.8	388.1	592.5
87.5°	130.5	106.5	151.1	161.4	194.1	176.9	111.6	128.8	139.1	214.7
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°
3647.5	0°	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5	3647.5
3654.3	2.5°	3661.2	3666.4	3683.5	3688.7	3700.7	3716.2	3726.5	3736.8	3736.8	3747.1
3709.3	5°	3711.0	3723.0	3759.1	3778.0	3808.9	3839.8	3858.7	3881.0	3894.8	3901.6
3796.9	7.5°	3807.2	3826.1	3877.6	3910.2	3963.5	4006.4	4035.6	4066.5	4073.4	4092.2
3918.8	10°	3937.7	3960.0	4018.4	4080.2	4143.8	4197.0	4224.5	4246.8	4255.4	4258.8
4075.1	12.5°	4087.1	4119.7	4195.3	4270.8	4337.8	4384.2	4391.1	4385.9	4361.9	4341.3
4267.4	15°	4270.8	4300.0	4384.2	4466.6	4531.9	4540.5	4497.5	4470.0	4440.9	4435.7
4482.1	17.5°	4490.7	4506.1	4583.4	4664.1	4669.3	4640.1	4576.5	4550.8	4523.3	4504.4
4762.0	20°	4746.5	4741.4	4796.3	4830.7	4794.6	4705.3	4609.1	4566.2	4538.7	4516.4
5105.4	22.5°	5052.2	5012.7	5005.8	4997.2	4901.1	4713.9	4583.4	4528.4	4485.5	4454.6
5584.6	25°	5497.0	5345.9	5241.1	5182.7	4966.3	4667.5	4501.0	4379.0	4298.3	4245.1
6170.1	27.5°	6053.4	5799.2	5534.8	5392.2	4966.3	4573.1	4301.8	4104.3	3972.0	3917.1
6736.8	30°	6584.0	6317.8	5928.0	5644.7	4954.3	4418.5	3980.6	3705.9	3551.3	3496.4
7221.1	32.5°	7037.4	6747.1	6345.3	5921.1	4925.1	4167.8	3582.2	3278.3	3128.9	3063.6
7700.2	35°	7458.1	7149.0	6764.3	6225.1	4847.8	3800.3	3144.3	2912.5	2745.9	2641.2
8187.9	37.5°	7889.1	7521.6	7161.0	6499.9	4708.7	3371.0	2807.7	2610.2	2414.5	2273.7
8706.5	40°	8357.9	7918.3	7585.2	6663.0	4480.4	2962.3	2546.7	2366.4	2158.6	2009.2
9304.2	42.5°	8905.7	8394.0	8057.4	6747.1	4167.8	2672.1	2376.7	2199.8	2004.1	1882.1
9944.7	45°	9477.6	8917.8	8488.5	6745.4	3819.2	2536.4	2321.7	2146.6	1930.2	1803.1
10602.4	47.5°	10076.9	9465.6	8861.1	6635.5	3517.0	2555.3	2290.8	2031.5	1792.8	1669.2
11267.0	50°	10678.0	10064.9	9221.7	6429.5	3388.2	2514.1	2175.8	1870.1	1588.5	1476.9
11890.4	52.5°	11273.9	10702.0	9532.6	6135.8	3257.7	2361.2	2028.1	1660.6	1504.3	1427.0
12534.3	55°	11873.2	11332.2	9870.9	5708.2	2931.4	2182.6	1780.8	1581.6	1437.4	1366.9
13164.6	57.5°	12474.2	12060.4	10192.0	5280.6	2520.9	1962.8	1645.1	1485.4	1370.4	1310.3
13691.8	60°	13099.3	12893.2	10523.4	4887.3	2115.7	1681.2	1545.5	1408.2	1291.4	1224.4
14198.4	62.5°	13743.3	13810.3	10782.7	4380.7	1743.0	1509.5	1456.2	1315.4	1202.1	1138.5
14617.4	65°	14392.4	14694.7	10952.7	3678.4	1413.3	1346.3	1360.1	1214.1	1099.1	1044.1
14924.8	67.5°	14881.8	15331.8	10904.6	2783.7	1159.2	1191.8	1239.9	1107.6	999.4	956.5
14875.0	70°	14936.8	15256.2	10430.7	1906.2	970.3	1040.7	1105.9	1002.9	891.3	860.4
14174.3	72.5°	14205.2	14225.8	9110.1	1245.0	820.9	913.6	965.1	896.4	788.2	757.3
12400.4	75°	12287.0	11765.0	6688.8	820.9	686.9	784.8	832.9	784.8	680.0	686.9
9278.4	77.5°	9309.3	8332.2	4061.3	583.9	573.6	659.4	724.7	690.3	601.0	674.9
4665.8	80°	4796.3	4507.8	1811.7	436.2	453.4	527.2	595.9	551.2	475.7	453.4
1042.4	82.5°	1099.1	1277.6	714.4	312.5	328.0	379.5	455.1	413.9	341.7	288.5
434.5	85°	384.7	420.7	316.0	195.8	192.3	237.0	309.1	276.5	231.8	185.5
183.7	87.5°	121.9	159.7	118.5	79.0	82.4	106.5	142.5	130.5	108.2	70.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3647.5
3747.1
3905.1
4085.4
4250.2
4341.3
4435.7
4506.1
4518.1
4464.9
4265.7
3944.6
3529.0
3096.2
2675.5
2311.4
2038.4
1906.2
1823.7
1686.4
1483.7
1427.0
1360.1
1300.0
1219.3
1136.8
1042.4
958.2
862.1
755.6
662.9
594.2
413.9
285.1
195.8
73.8
0.0

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