

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: P943797

Luminaire Tested: **GALN-SB8B-940-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33018 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

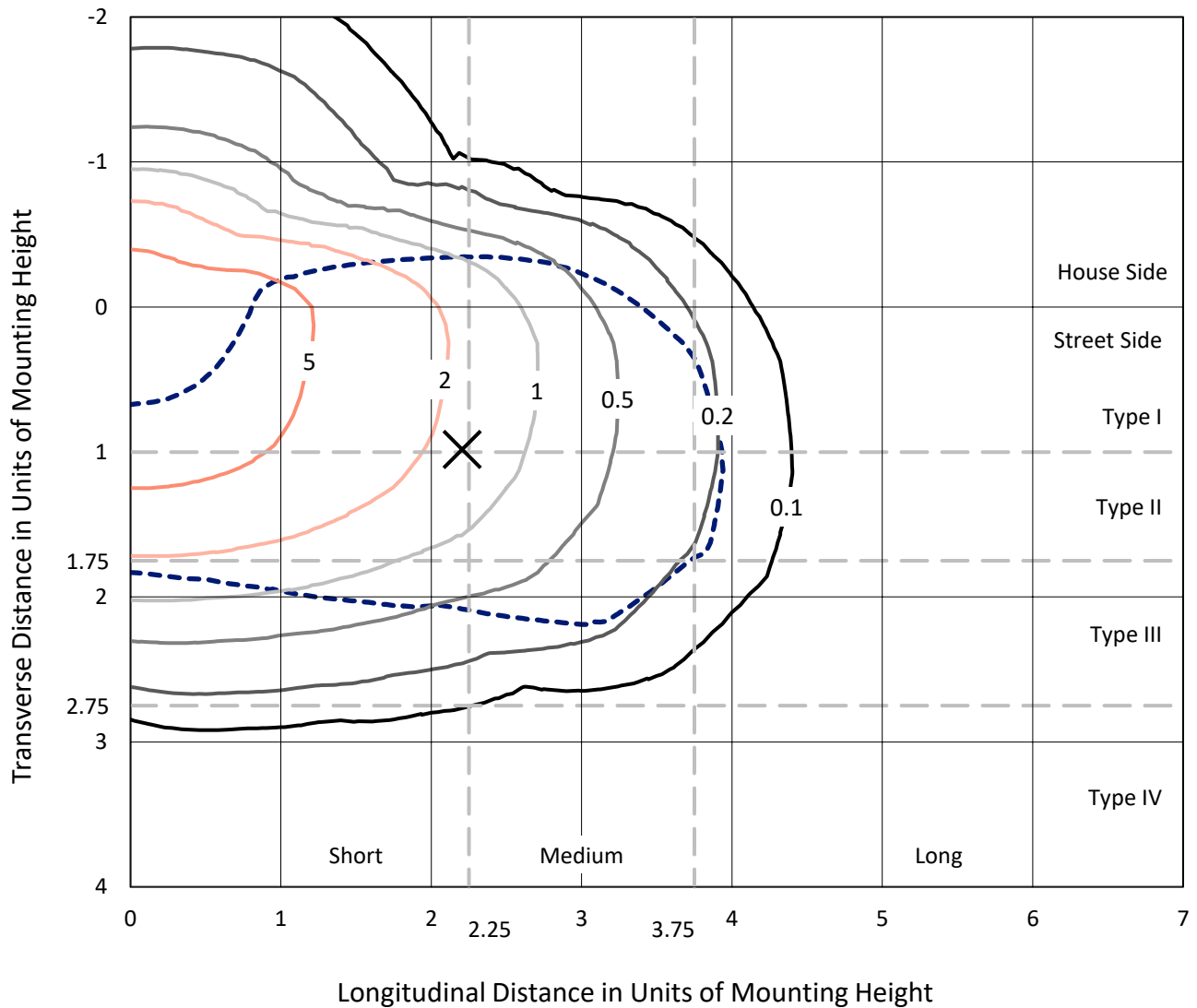
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943797
 CATALOG NUMBER: GALN-SB8B-940-U-T3

Iso-Footcandle Lines of Horizontal Illumination

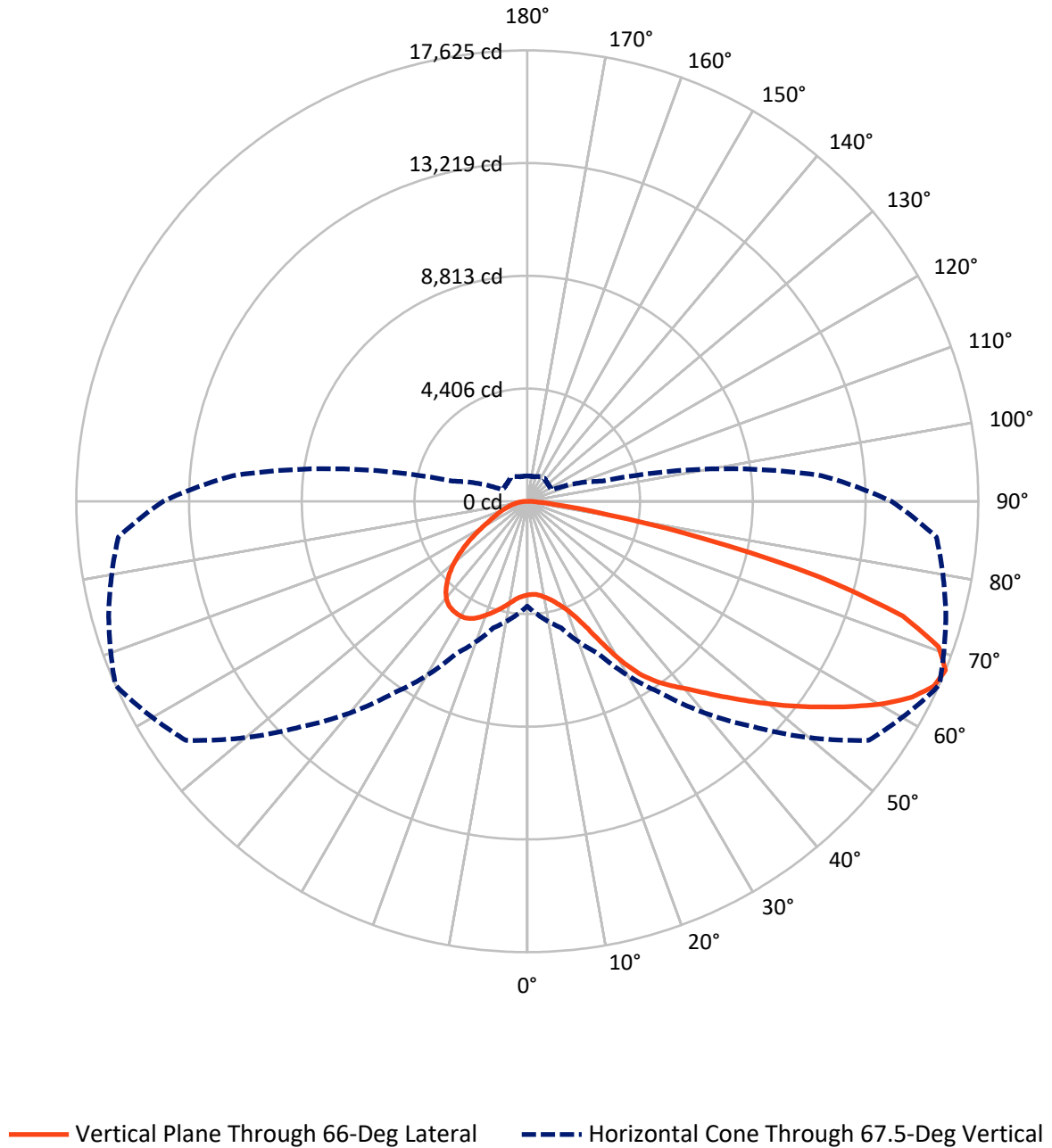
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P943797
CATALOG NUMBER: GALN-SB8B-940-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P943797

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8209.8	0.0	8209.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24808.2	0.0	24808.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	33018.0	0.0	33018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.1	1.1
10°-20°	1199.6	3.6
20°-30°	2312.1	7.0
30°-40°	4054.0	12.3
40°-50°	6027.0	18.3
50°-60°	7639.8	23.1
60°-70°	7475.4	22.6
70°-80°	3565.8	10.8
80°-90°	381.1	1.2
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°	33018.0	100.0
0°-180°	33018.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943797

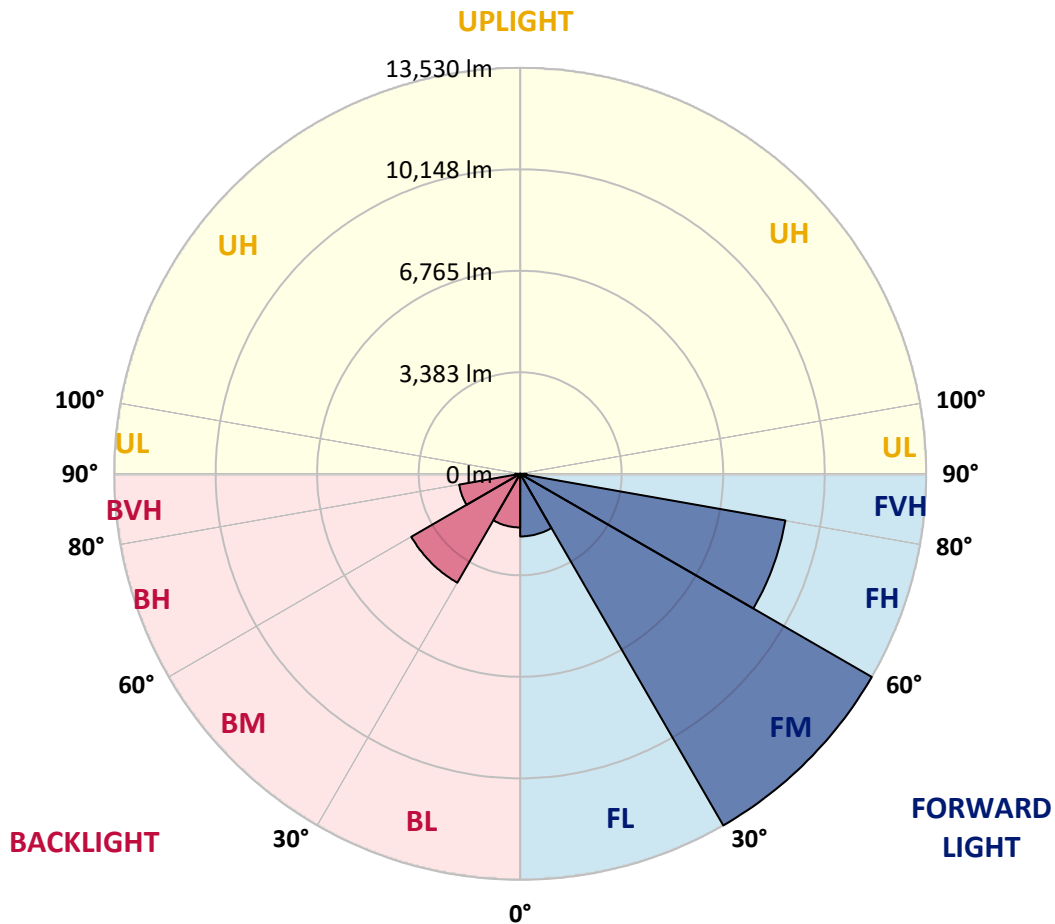
CATALOG NUMBER: GALN-SB8B-940-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.4	6.3			
FM (30°-60°)	13530.5	41.0			
FH (60°-80°)	8975.2	27.2			G4/12000
FVH (80°-90°)	216.1	0.7			G2/225
BL (0°-30°)	1788.4	5.4	B3/2500		
BM (30°-60°)	4190.4	12.7	B3/5000		
BH (60°-80°)	2066.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	165.0	0.5			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 III Short



REPORT NUMBER: P943797

CATALOG NUMBER: GALN-SB8B-940-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
2.5°	3624.0	3644.8	3639.6	3630.9	3629.2	3632.6	3637.8	3643.0	3641.3	3650.0
5°	3613.6	3634.4	3632.6	3632.6	3639.6	3653.5	3662.1	3670.8	3662.1	3672.5
7.5°	3620.5	3636.1	3643.0	3650.0	3667.3	3693.4	3714.2	3733.3	3722.9	3735.0
10°	3709.0	3721.1	3728.1	3728.1	3740.2	3769.7	3790.5	3825.2	3816.5	3835.6
12.5°	3870.3	3882.5	3882.5	3875.5	3884.2	3903.3	3910.2	3948.4	3932.8	3964.0
15°	4068.1	4092.4	4073.3	4061.1	4064.6	4083.7	4082.0	4111.4	4095.8	4121.9
17.5°	4286.7	4317.9	4286.7	4284.9	4278.0	4298.8	4300.5	4326.6	4298.8	4317.9
20°	4545.1	4588.5	4562.5	4571.2	4555.5	4564.2	4572.9	4611.1	4567.7	4581.6
22.5°	4909.4	4961.5	4933.7	4966.7	4956.3	4949.3	4947.6	5015.3	4947.6	4952.8
25°	5440.3	5502.7	5454.2	5499.3	5499.3	5521.8	5547.8	5634.6	5521.8	5488.9
27.5°	6224.4	6286.9	6191.5	6219.2	6210.5	6266.0	6238.3	6453.4	6332.0	6278.2
30°	7168.1	7279.2	7098.7	7091.8	7083.1	7171.6	7211.5	7353.8	7230.6	7176.8
32.5°	8188.2	8304.4	8089.3	8026.9	7993.9	8047.7	8014.7	8129.2	8044.2	7960.9
35°	9267.2	9381.7	9177.0	9055.6	8923.7	8811.0	8693.0	8722.5	8642.7	8516.1
37.5°	10287.3	10497.2	10280.3	10150.2	9907.4	9687.0	9357.4	9220.4	9145.8	9029.6
40°	11326.4	11446.1	11281.3	11170.3	10906.6	10561.4	10034.0	9744.3	9643.7	9530.9
42.5°	12091.5	12206.0	12117.5	12041.1	11834.7	11434.0	10752.2	10389.6	10243.9	10117.3
45°	12698.6	12783.6	12728.1	12755.9	12667.4	12278.8	11496.4	11081.8	10930.9	10776.5
47.5°	12943.2	13033.4	13121.9	13286.7	13437.6	13151.4	12296.2	11831.2	11671.6	11513.8
50°	12915.5	13007.4	13264.2	13614.6	14083.0	13987.6	13139.3	12629.2	12481.8	12301.4
52.5°	12693.4	12797.5	13127.1	13710.0	14456.0	14613.8	13998.0	13453.3	13314.5	13099.4
55°	12110.5	12173.0	12667.4	13493.2	14544.4	15051.0	14839.4	14331.1	14192.3	13892.2
57.5°	11029.8	11120.0	11839.9	12908.5	14322.4	15347.6	15578.4	15254.0	15120.4	14688.4
60°	9619.4	9763.4	10587.4	11926.7	13756.9	15345.9	16249.7	16161.3	16050.2	15472.6
62.5°	8023.4	8189.9	8982.7	10538.8	12768.0	14910.5	16669.6	16921.1	16863.9	16196.0
65°	6162.0	6276.5	7065.8	8743.3	11229.3	13975.4	16718.1	17439.8	17450.2	16745.9
67.5°	4102.8	4432.4	5117.6	6561.0	9168.3	12447.1	16291.4	17524.8	17625.4	16935.0
70°	2001.9	2435.6	3107.0	4264.1	6561.0	10103.4	15175.9	16827.4	17051.2	16383.3
72.5°	831.0	971.5	1337.5	2104.3	3766.2	6817.7	12934.6	14936.5	15351.1	14516.7
75°	560.3	607.2	765.0	1079.0	1715.7	3362.0	9327.9	11137.3	11805.2	10963.8
77.5°	432.0	461.5	556.9	754.6	1020.1	1271.6	4992.7	6711.9	7057.1	6533.2
80°	340.0	362.6	416.3	549.9	723.4	680.0	1701.8	3041.1	3240.6	2718.4
82.5°	294.9	303.6	298.4	373.0	480.5	397.3	558.6	1122.4	1238.6	898.6
85°	213.4	237.7	248.1	230.7	255.0	201.2	229.0	397.3	437.2	390.3
87.5°	86.7	128.4	157.9	149.2	93.7	57.2	71.1	116.2	133.6	145.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943797
 CATALOG NUMBER: GALN-SB8B-940-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3662.1	0°	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1	3662.1
3663.9	2.5°	3665.6	3677.7	3686.4	3696.8	3703.8	3714.2	3735.0	3747.1	3748.9	3757.5
3691.6	5°	3698.6	3715.9	3735.0	3762.8	3794.0	3820.0	3859.9	3887.7	3898.1	3906.7
3759.3	7.5°	3769.7	3794.0	3828.7	3877.2	3922.4	3957.0	4005.6	4038.6	4071.5	4083.7
3866.8	10°	3875.5	3910.2	3960.5	4026.4	4075.0	4120.1	4170.4	4198.2	4231.1	4245.0
3995.2	12.5°	4007.4	4043.8	4109.7	4201.7	4246.8	4278.0	4295.3	4288.4	4295.3	4307.5
4149.6	15°	4158.3	4198.2	4272.8	4371.7	4402.9	4375.1	4337.0	4302.3	4297.1	4300.5
4337.0	17.5°	4337.0	4366.5	4453.2	4536.5	4513.9	4399.4	4316.1	4260.6	4232.9	4224.2
4576.4	20°	4586.8	4586.8	4657.9	4709.9	4559.0	4364.7	4234.6	4144.4	4087.2	4062.9
4902.5	22.5°	4890.4	4862.6	4907.7	4871.3	4550.3	4267.6	4087.2	3931.0	3844.3	3809.6
5358.8	25°	5275.5	5242.5	5230.4	5004.9	4487.9	4113.2	3820.0	3630.9	3554.6	3535.5
6016.2	27.5°	5856.6	5773.4	5615.5	5077.7	4373.4	3870.3	3507.7	3332.5	3289.2	3290.9
6861.1	30°	6630.4	6463.8	6077.0	5089.9	4186.0	3526.8	3188.5	3063.6	3042.8	3051.5
7570.6	32.5°	7346.8	7189.0	6548.8	5034.3	3898.1	3190.3	2902.3	2819.0	2787.8	2798.2
8111.9	35°	7908.9	7865.5	6986.0	4956.3	3544.2	2874.5	2645.5	2574.4	2513.7	2499.8
8621.9	37.5°	8439.7	8422.4	7313.9	4847.0	3193.7	2650.8	2439.1	2345.4	2257.0	2208.4
9185.7	40°	9022.6	9005.3	7529.0	4678.7	2883.2	2456.5	2253.5	2130.3	2021.0	1932.6
9824.1	42.5°	9678.4	9576.0	7631.3	4437.6	2619.5	2291.7	2102.6	1936.0	1792.0	1710.5
10545.8	45°	10394.8	10164.1	7629.6	4130.5	2397.5	2140.7	1941.2	1705.3	1571.7	1495.4
11286.5	47.5°	11154.7	10726.2	7535.9	3790.5	2182.4	1974.2	1691.4	1511.0	1422.5	1375.7
12091.5	50°	11938.8	11251.8	7376.3	3400.2	1962.0	1785.1	1535.3	1412.1	1344.5	1301.1
12889.5	52.5°	12676.1	11728.9	7183.7	2957.8	1738.3	1601.2	1465.9	1370.5	1299.4	1250.8
13663.2	55°	13361.3	12140.0	6911.4	2505.0	1556.1	1478.0	1432.9	1353.1	1271.6	1214.3
14449.0	57.5°	13970.2	12407.2	6441.3	2080.0	1426.0	1393.0	1398.2	1323.6	1230.0	1181.4
15222.7	60°	14476.8	12603.2	5745.6	1686.2	1320.2	1309.8	1344.5	1268.1	1158.8	1103.3
15876.8	62.5°	14780.4	12599.7	4892.1	1380.9	1230.0	1233.4	1273.3	1198.7	1087.7	1035.7
16218.5	65°	14754.4	12291.0	3955.3	1181.4	1143.2	1146.7	1198.7	1122.4	1028.7	997.5
16046.8	67.5°	14232.2	11538.1	3034.1	1051.3	1047.8	1063.4	1124.1	1070.4	992.3	988.8
15023.2	70°	12818.3	9975.0	2185.8	947.2	948.9	971.5	1051.3	1037.4	973.2	980.2
12631.0	72.5°	10278.6	7605.3	1467.6	837.9	839.6	876.1	981.9	1011.4	954.1	1046.1
8961.9	75°	6845.5	4742.9	943.7	721.7	723.4	770.2	921.2	961.1	902.1	1042.6
4663.1	77.5°	3289.2	2132.1	683.5	607.2	607.2	650.5	796.3	860.5	768.5	810.1
1498.9	80°	1136.3	801.5	537.8	489.2	478.8	508.3	671.4	746.0	662.7	610.6
489.2	82.5°	447.6	416.3	432.0	379.9	345.2	364.3	522.2	615.8	487.5	440.6
275.8	85°	256.7	270.6	305.3	251.5	199.5	223.8	383.4	442.4	367.8	324.4
90.2	87.5°	69.4	95.4	140.5	130.1	90.2	95.4	182.2	244.6	211.6	163.1
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>
3662.1
3755.8
3905.0
4085.4
4252.0
4310.9
4312.7
4236.3
4057.7
3804.4
3539.0
3296.1
3081.0
2812.1
2510.2
2210.1
1941.2
1715.7
1491.9
1365.3
1285.5
1230.0
1191.8
1150.2
1079.0
1020.1
995.8
994.0
978.4
1060.0
1051.3
742.5
572.5
438.9
331.3
168.3
0.0

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