

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: P948860

Luminaire Tested: **GALN-SB3D-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24882 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

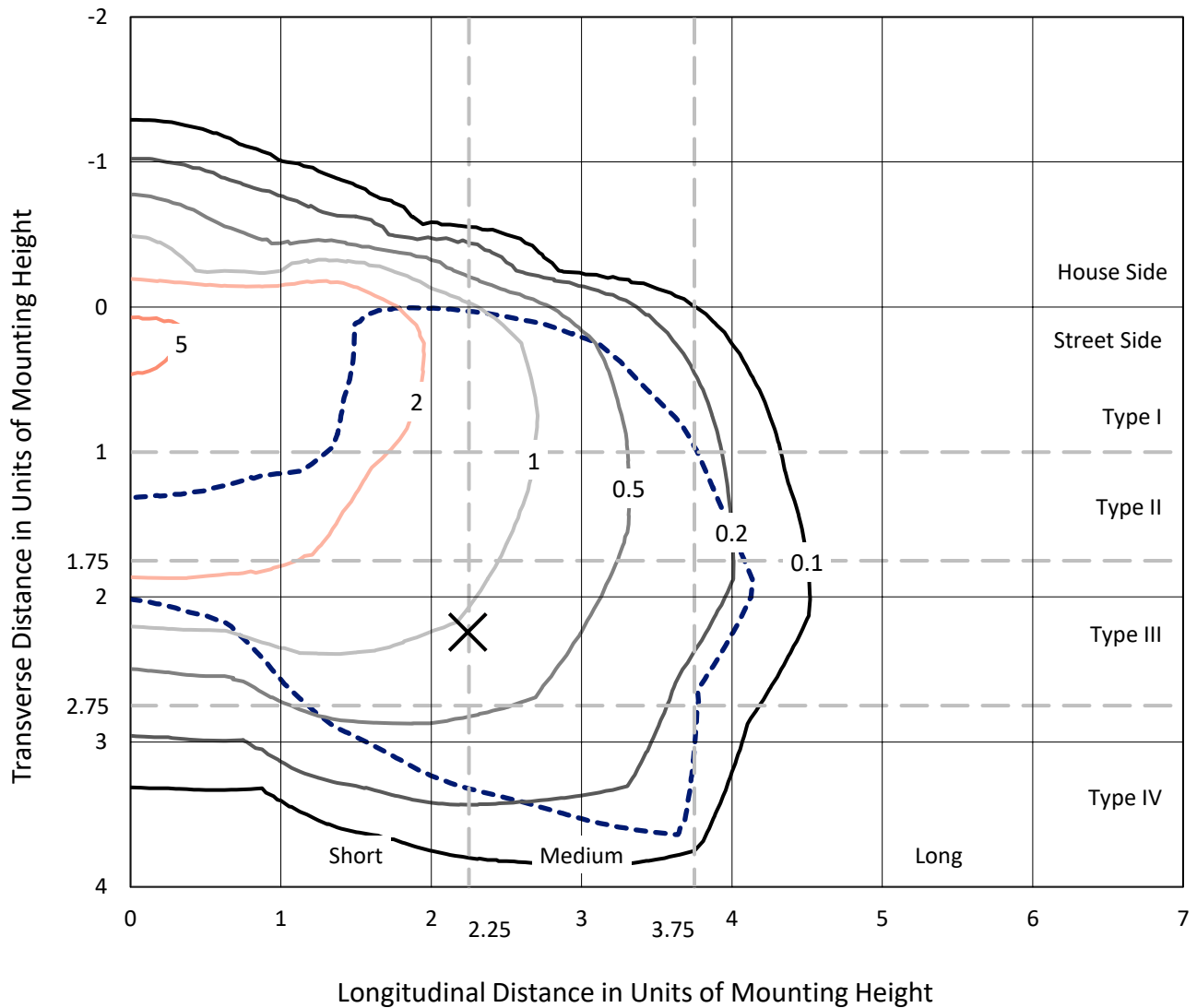
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

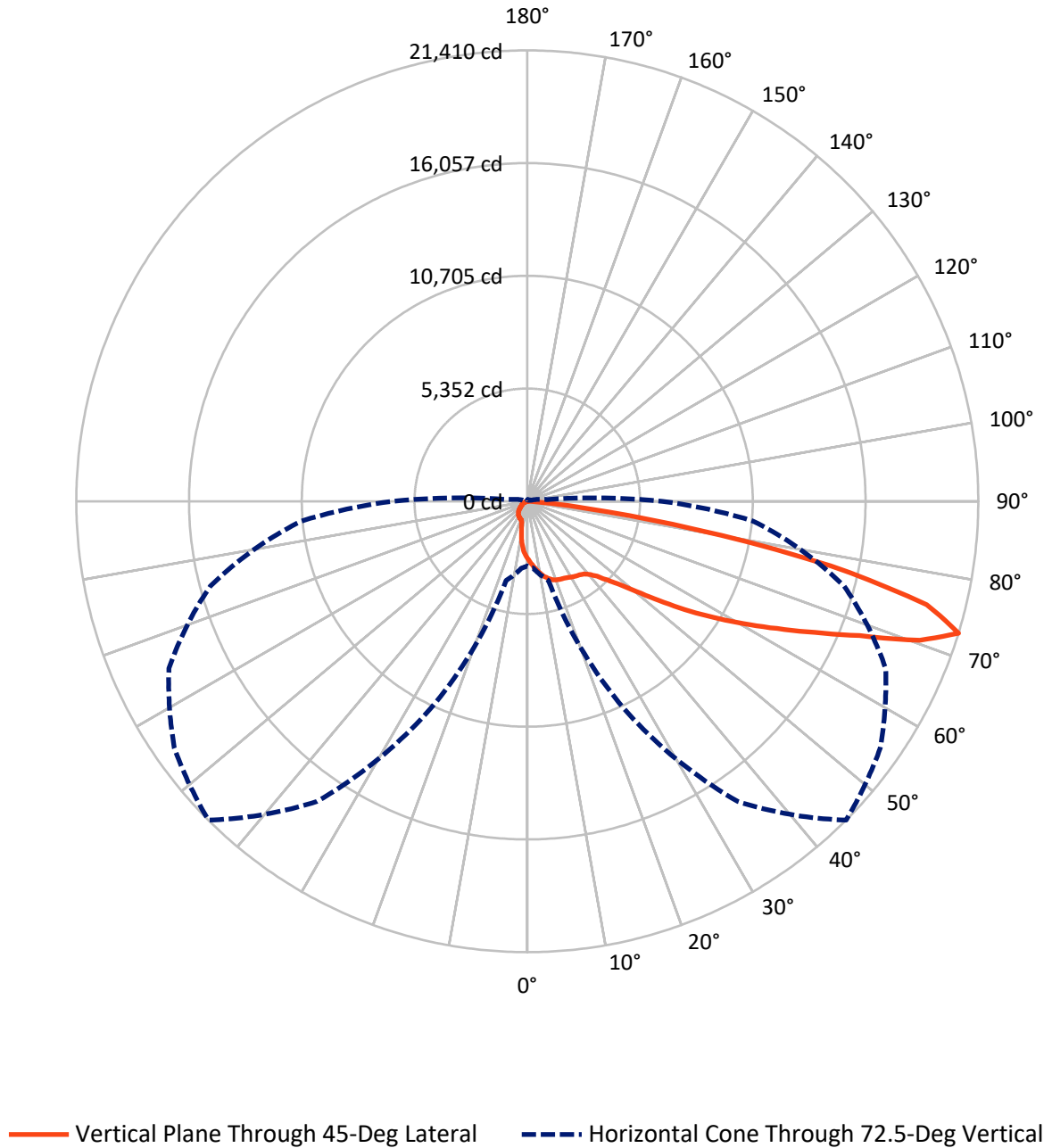
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.4	0.0	2614.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22267.6	0.0	22267.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	24882.0	0.0	24882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	1.0
10°-20°	750.6	3.0
20°-30°	1232.6	5.0
30°-40°	1748.1	7.0
40°-50°	2889.5	11.6
50°-60°	5190.7	20.9
60°-70°	7207.5	29.0
70°-80°	5228.1	21.0
80°-90°	378.0	1.5
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°	24882.0	100.0
0°-180°	24882.0	100.0

Coefficient of Utilization



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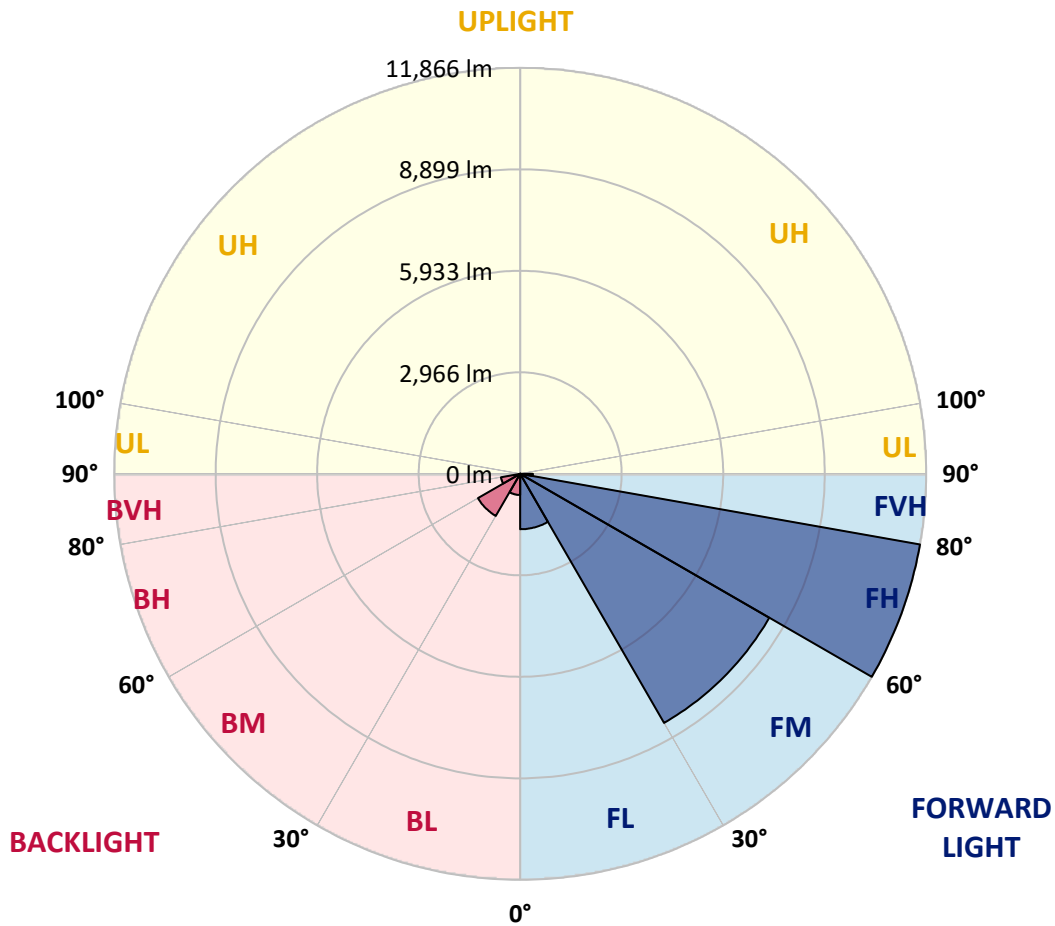
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.8	6.5			
FM (30°-60°)	8406.5	33.8			
FH (60°-80°)	11865.5	47.7			G4/12000
FVH (80°-90°)	374.8	1.5			G3/500
BL (0°-30°)	619.3	2.5	B2/1000		
BM (30°-60°)	1421.9	5.7	B2/2500		
BH (60°-80°)	570.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9
2.5°	2977.2	2982.3	2978.9	2958.6	2924.6	2905.9	2895.7	2861.7	2839.7	2800.6
5°	3250.7	3271.1	3259.2	3218.4	3153.9	3108.0	3094.4	3024.8	2961.9	2888.9
7.5°	3541.1	3551.3	3529.2	3476.6	3389.9	3311.8	3299.9	3203.1	3102.9	2990.8
10°	3792.4	3804.3	3770.4	3693.9	3595.4	3498.6	3481.6	3374.7	3255.8	3118.2
12.5°	4003.0	4014.9	3970.8	3879.1	3770.4	3670.2	3653.2	3541.1	3410.3	3257.5
15°	4162.7	4184.8	4125.3	4026.8	3909.6	3809.4	3800.9	3690.5	3563.2	3393.3
17.5°	4256.1	4278.2	4222.1	4103.3	4003.0	3918.1	3907.9	3816.2	3697.3	3534.3
20°	4271.4	4291.8	4232.3	4128.7	4045.5	3977.6	3972.5	3906.2	3819.6	3663.4
22.5°	4225.5	4251.0	4196.7	4113.4	4055.7	4020.0	4013.2	3975.9	3926.6	3794.1
25°	4178.0	4198.4	4157.6	4084.6	4054.0	4050.6	4055.7	4048.9	4038.7	3926.6
27.5°	4174.6	4196.7	4150.8	4081.2	4064.2	4099.9	4104.9	4137.2	4145.7	4047.2
30°	4203.5	4218.7	4174.6	4101.6	4093.1	4174.6	4176.3	4234.0	4247.6	4149.1
32.5°	4266.3	4283.3	4239.1	4132.1	4120.2	4234.0	4239.1	4315.5	4337.6	4257.8
35°	4414.1	4434.4	4383.5	4217.0	4174.6	4290.1	4305.4	4395.4	4439.5	4373.3
37.5°	4782.6	4723.2	4653.5	4388.6	4298.6	4378.4	4403.9	4509.2	4587.3	4510.9
40°	5698.0	5511.2	5293.8	4680.7	4516.0	4566.9	4587.3	4692.6	4799.6	4724.9
42.5°	7072.0	6851.2	6501.3	5353.2	4843.7	4869.2	4884.5	4976.2	5127.4	5067.9
45°	8296.5	8216.7	7860.0	6501.3	5456.8	5331.2	5349.9	5397.4	5619.9	5597.8
47.5°	9237.4	9191.6	8916.4	7819.3	6492.8	5896.7	5949.4	5971.5	6292.4	6370.6
50°	9960.9	9943.9	9697.7	8991.1	7846.4	6730.6	6749.3	6701.7	7182.4	7376.0
52.5°	10643.7	10701.4	10519.7	10079.8	9291.8	7822.7	7819.3	7595.1	8243.9	8536.0
55°	11260.2	11280.5	11299.2	11190.5	10745.6	9065.9	9033.6	8666.8	9475.2	9777.5
57.5°	11839.3	11847.8	12014.2	12236.7	12258.8	10400.8	10341.3	9901.5	10820.3	11036.0
60°	12228.2	12267.3	12618.9	13237.1	13507.1	11778.2	11745.9	11297.5	12189.2	12289.4
62.5°	11667.8	11905.5	12792.1	14018.3	14685.8	13305.0	13289.7	12868.5	13629.4	13547.9
65°	9444.6	9847.1	11406.2	14546.5	15842.3	15010.2	15032.2	14583.9	15108.7	14843.7
67.5°	6606.6	7031.2	8875.7	14589.0	17134.8	17012.5	17139.9	16436.8	16679.6	16085.2
70°	4568.6	4787.7	5988.4	13675.2	18141.9	19770.7	19767.3	18712.6	18242.1	16650.8
72.5°	3072.3	3186.1	3889.3	10849.2	17401.4	21409.6	21311.1	20451.7	18768.6	15572.3
75°	1295.9	1379.1	1800.3	6097.1	13766.9	19587.2	19320.6	18074.0	16676.2	12262.2
77.5°	411.0	446.7	709.9	2182.4	7583.2	14723.1	14441.2	11287.3	11176.9	6151.5
80°	195.3	227.6	399.1	876.4	2984.0	8007.8	7968.7	5120.6	4808.1	1661.0
82.5°	84.9	100.2	220.8	468.7	1334.9	2856.7	2914.4	1742.5	1441.9	630.1
85°	27.2	35.7	101.9	215.7	563.9	709.9	701.4	414.4	580.8	343.1
87.5°	0.0	0.0	34.0	49.3	57.7	40.8	45.9	35.7	161.3	95.1
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°
2725.9	0°	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9	2725.9
2759.8	2.5°	2739.5	2712.3	2664.7	2620.6	2581.5	2542.5	2518.7	2484.7	2481.3	2481.3
2804.0	5°	2758.1	2714.0	2629.1	2539.1	2435.5	2337.0	2238.4	2143.3	2112.8	2090.7
2875.3	7.5°	2812.5	2742.9	2608.7	2437.2	2240.1	2024.5	1873.3	1710.3	1647.4	1613.4
2970.4	10°	2890.6	2795.5	2591.7	2291.1	1971.8	1678.0	1462.3	1285.7	1217.7	1188.9
3074.0	12.5°	2977.2	2860.0	2561.1	2109.4	1678.0	1326.4	1115.8	1034.3	1024.1	1024.1
3198.0	15°	3080.8	2938.2	2508.5	1895.4	1370.6	1049.6	974.9	978.3	988.4	995.2
3318.6	17.5°	3187.8	3021.4	2425.3	1655.9	1098.8	944.3	946.0	951.1	959.6	966.4
3449.4	20°	3303.3	3104.6	2314.9	1401.2	942.6	913.7	918.8	923.9	930.7	934.1
3571.7	22.5°	3427.3	3182.7	2184.1	1151.5	889.9	888.2	889.9	895.0	903.5	903.5
3714.3	25°	3559.8	3269.4	2034.6	969.8	862.8	862.8	866.2	869.6	876.4	876.4
3851.9	27.5°	3695.6	3349.2	1876.7	874.7	839.0	837.3	837.3	842.4	845.8	847.5
3987.8	30°	3845.1	3442.6	1718.7	854.3	820.3	811.8	806.7	810.1	813.5	815.2
4130.4	32.5°	3998.0	3532.6	1577.8	862.8	801.6	786.3	769.4	766.0	766.0	772.8
4278.2	35°	4167.8	3631.1	1469.1	891.6	791.4	749.0	721.8	706.5	708.2	718.4
4454.8	37.5°	4371.6	3750.0	1389.3	917.1	784.6	706.5	662.4	643.7	631.8	643.7
4697.7	40°	4638.2	3924.9	1331.5	937.5	776.2	657.3	597.8	567.3	545.2	552.0
5074.7	42.5°	5030.6	4200.1	1309.4	939.2	757.5	599.5	531.6	490.8	458.6	460.3
5642.0	45°	5580.8	4634.8	1423.2	917.1	716.7	536.7	462.0	407.6	387.2	382.1
6489.5	47.5°	6334.9	5268.3	1686.5	871.3	657.3	475.5	394.0	348.2	332.9	324.4
7601.9	50°	7345.4	6081.8	1978.6	820.3	597.8	417.8	338.0	309.1	298.9	290.4
8921.5	52.5°	8517.3	6907.3	2218.1	769.4	538.4	366.8	302.3	285.3	276.8	270.0
10195.3	55°	9592.4	7476.2	2204.5	715.0	480.6	326.1	276.8	266.6	256.5	249.7
11292.4	57.5°	10261.5	7556.0	1817.3	655.6	414.4	293.8	253.1	246.3	234.4	225.9
12241.8	60°	10568.9	7100.9	1273.8	577.4	348.2	263.2	227.6	224.2	208.9	197.0
13140.3	62.5°	10625.0	6255.1	849.2	480.6	290.4	234.4	202.1	197.0	176.6	156.2
13870.5	65°	10397.4	5045.8	587.6	375.3	248.0	203.8	173.2	163.0	141.0	120.6
14043.8	67.5°	9677.3	3542.8	409.3	270.0	210.6	161.3	137.6	134.2	117.2	100.2
13160.6	70°	8357.7	2019.4	273.4	202.1	166.4	110.4	108.7	112.1	95.1	81.5
10752.3	72.5°	6407.9	923.9	169.8	147.8	113.8	74.7	86.6	88.3	73.0	61.1
6708.5	75°	3772.1	395.7	107.0	95.1	57.7	49.3	62.8	64.5	49.3	39.1
2452.4	77.5°	1284.0	149.5	67.9	56.0	28.9	27.2	40.8	40.8	27.2	15.3
492.5	80°	292.1	56.0	34.0	22.1	13.6	11.9	13.6	11.9	6.8	1.7
151.2	82.5°	83.2	22.1	13.6	8.5	5.1	5.1	1.7	0.0	0.0	0.0
52.6	85°	23.8	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
18.7	87.5°	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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<u>180°</u>
2725.9
2489.8
2100.9
1618.5
1188.9
1024.1
995.2
966.4
935.8
906.9
878.1
849.2
818.6
777.9
723.5
640.3
548.6
453.5
375.3
319.3
288.7
268.3
246.3
224.2
193.6
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