

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: P941818

Luminaire Tested: **GALN-SB5C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30304 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

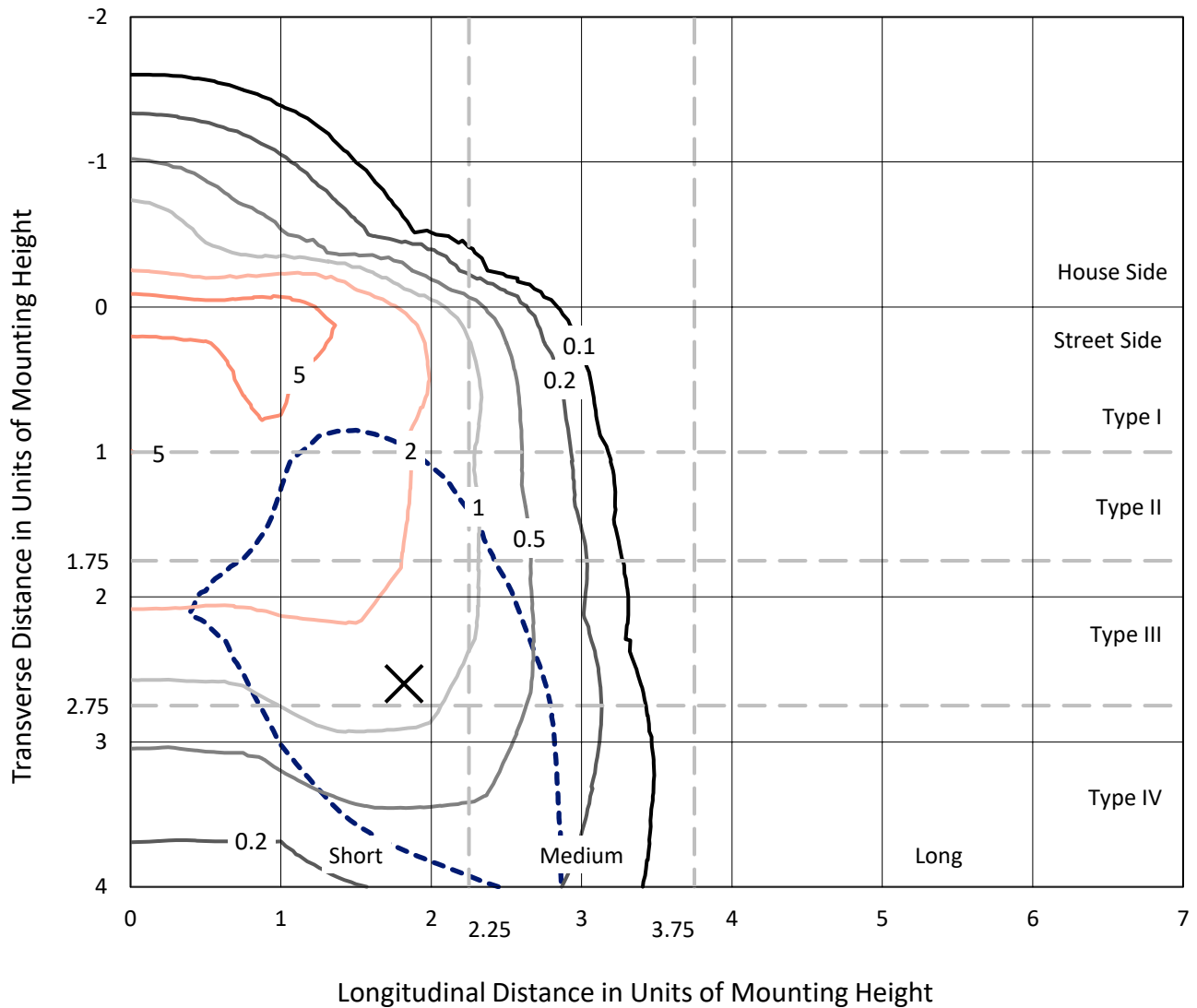
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

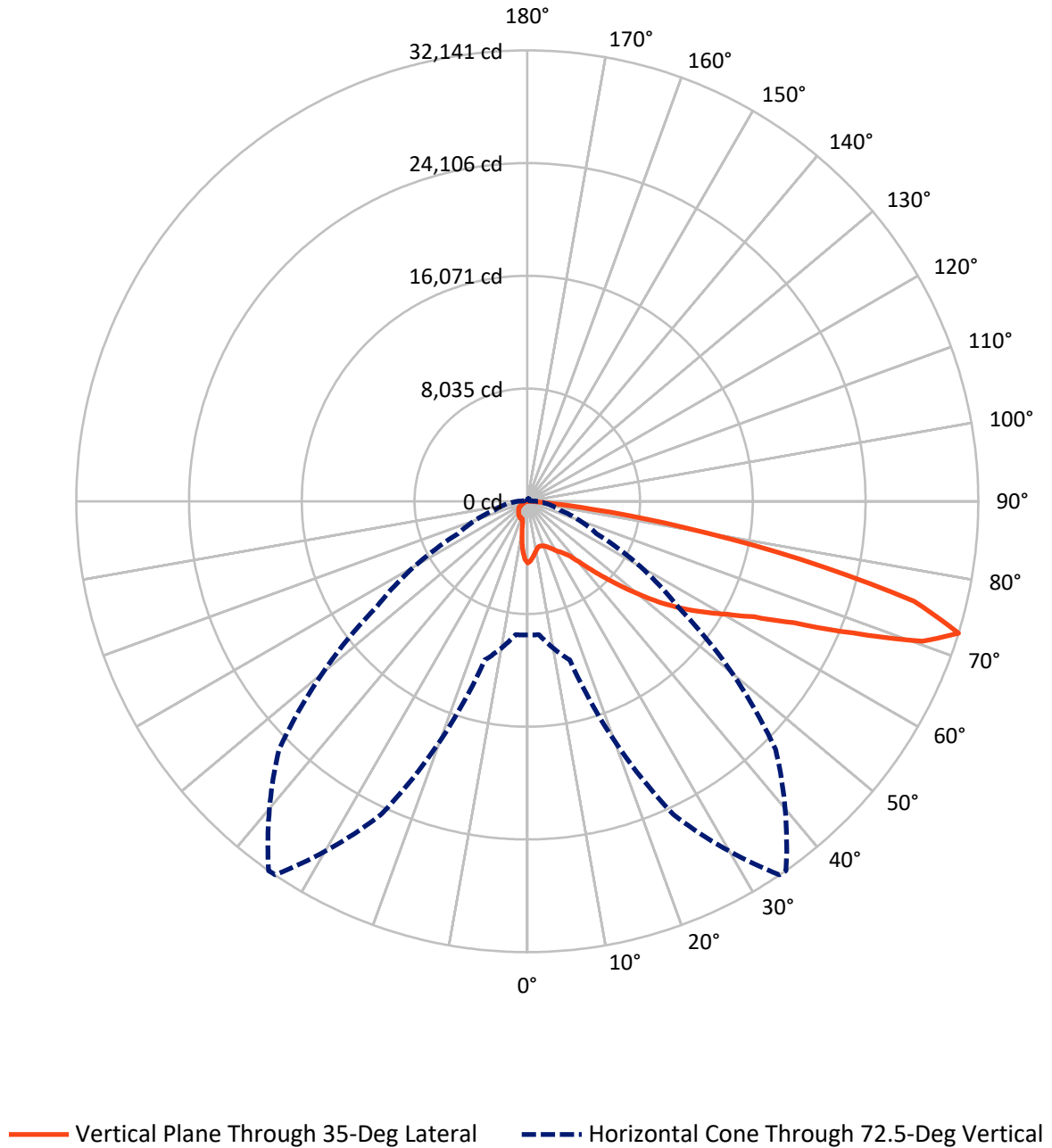
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3410.6	0.0	3410.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26893.4	0.0	26893.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	30304.0	0.0	30304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.2
10°-20°	844.3	2.8
20°-30°	1371.6	4.5
30°-40°	2288.4	7.6
40°-50°	4329.8	14.3
50°-60°	6880.0	22.7
60°-70°	8511.0	28.1
70°-80°	5290.5	17.5
80°-90°	427.6	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°	30304.0	100.0
0°-180°	30304.0	100.0

Coefficient of Utilization



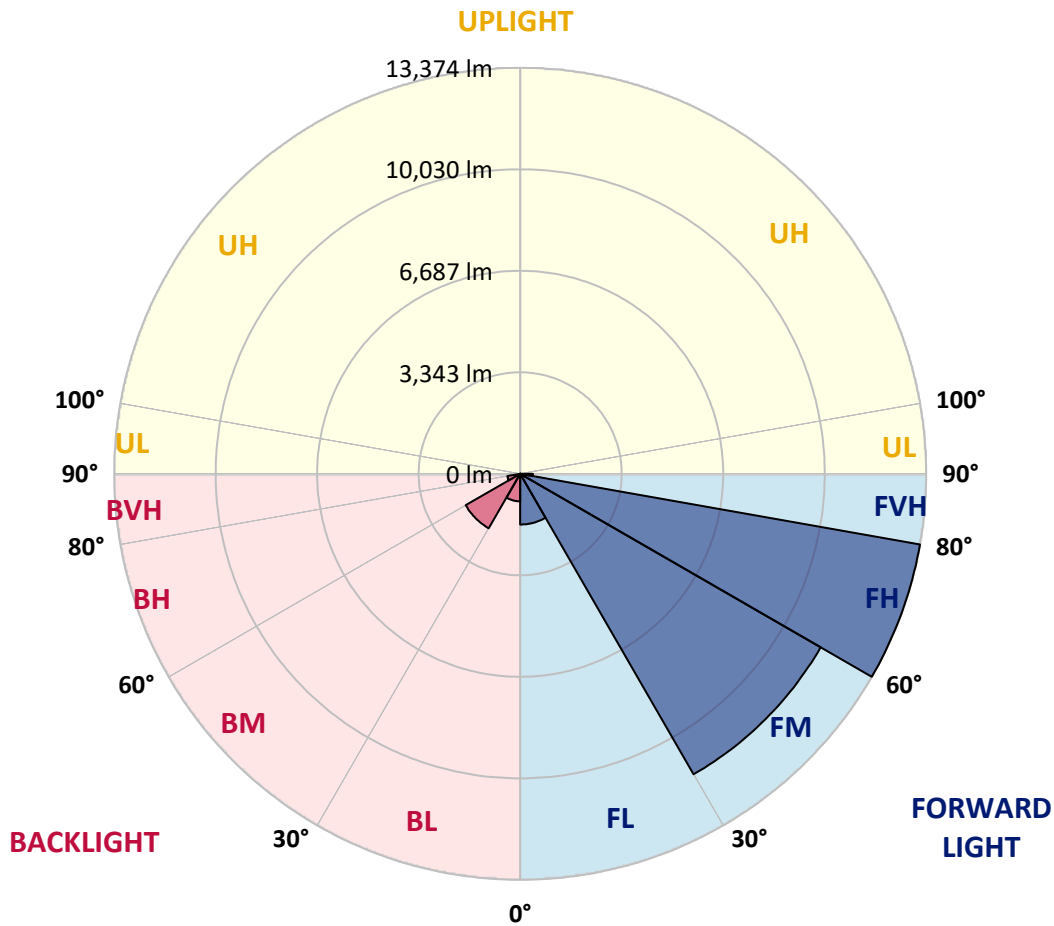
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.5	5.5			
FM (30°-60°)	11427.6	37.7			
FH (60°-80°)	13373.5	44.1			G5
FVH (80°-90°)	421.7	1.4			G3/500
BL (0°-30°)	906.3	3.0	B2/1000		
BM (30°-60°)	2070.5	6.8	B2/2500		
BH (60°-80°)	428.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1
2.5°	4196.7	4232.2	4238.9	4250.0	4250.0	4263.3	4285.5	4316.6	4367.6	4394.3
5°	3868.0	3894.7	3928.0	3954.6	4005.7	4012.4	4099.0	4183.3	4301.0	4389.8
7.5°	3537.2	3568.3	3612.7	3677.1	3743.7	3763.7	3894.7	4036.8	4223.3	4389.8
10°	3304.0	3306.3	3346.2	3410.6	3517.2	3541.6	3701.5	3903.6	4136.7	4363.2
12.5°	3173.0	3188.6	3206.3	3255.2	3357.3	3372.9	3543.9	3781.4	4050.1	4347.7
15°	3173.0	3184.1	3195.2	3219.7	3301.8	3315.1	3466.1	3703.7	4005.7	4354.3
17.5°	3206.3	3224.1	3215.2	3244.1	3330.7	3339.6	3472.8	3681.5	4003.5	4396.5
20°	3286.3	3299.6	3281.8	3299.6	3386.2	3404.0	3541.6	3723.7	4041.2	4469.8
22.5°	3412.8	3419.5	3377.3	3390.6	3479.5	3501.7	3661.5	3843.6	4132.3	4587.5
25°	3572.7	3586.0	3521.6	3537.2	3621.6	3648.2	3832.5	4023.5	4276.6	4749.6
27.5°	3757.0	3763.7	3708.2	3705.9	3814.7	3852.5	4039.0	4245.5	4469.8	4953.8
30°	3968.0	3987.9	3934.7	3925.8	4063.4	4094.5	4278.8	4518.6	4754.0	5260.3
32.5°	4134.5	4150.0	4118.9	4141.2	4281.0	4305.5	4569.7	4905.0	5200.3	5695.5
35°	4374.3	4383.2	4312.1	4352.1	4512.0	4574.1	4967.2	5446.8	5762.1	6241.7
37.5°	5242.5	5242.5	4940.5	4742.9	4896.1	4951.6	5511.2	6128.5	6454.9	6974.5
40°	6443.8	6423.8	5981.9	5577.8	5557.8	5666.6	6286.1	6987.8	7349.7	7853.8
42.5°	7725.0	7693.9	7092.1	6692.5	6625.8	6663.6	7181.0	8046.9	8415.5	8926.2
45°	8861.8	8853.0	8302.3	7764.9	7645.0	7764.9	8297.9	9286.0	9550.2	10087.5
47.5°	9814.4	9814.4	9412.5	9061.7	8999.5	9070.6	9810.0	10660.4	10636.0	11324.3
50°	10911.3	10902.4	10520.5	10369.5	10433.9	10533.9	11550.8	12108.2	11759.5	12538.9
52.5°	11679.6	11732.9	11601.9	11577.5	11906.1	12079.3	13318.3	13524.8	12765.4	13691.3
55°	12288.0	12350.2	12501.2	12672.2	13305.0	13531.5	15030.3	14868.2	13607.0	14690.5
57.5°	13149.6	13060.7	13293.9	13631.4	14655.0	14928.1	16689.0	16136.1	14284.2	15501.0
60°	14195.4	14208.7	14248.7	14675.0	16002.8	16353.7	18323.2	17335.1	14719.4	15998.4
62.5°	15452.2	15472.2	15554.3	16209.3	17812.5	18143.4	20064.1	18316.6	14919.3	15858.5
65°	15365.6	15449.9	16367.0	18607.4	20563.7	20890.1	22095.8	19004.9	14617.3	14579.5
67.5°	13997.8	14135.4	15669.8	21471.8	24711.5	25075.6	24551.6	19140.3	13313.9	11337.7
70°	12203.6	12252.5	14097.7	24047.6	29514.3	29882.9	26749.9	17650.4	10103.1	6323.9
72.5°	9530.2	9541.3	11706.3	24644.9	32121.1	32141.1	25024.6	13102.9	5433.5	2429.2
75°	6807.9	6741.3	7840.4	19986.3	28259.8	28486.3	18760.6	6146.2	2076.1	1148.0
77.5°	3650.4	3723.7	4436.5	11852.8	19522.3	19908.6	10236.3	1771.9	1056.9	781.6
80°	1128.0	1190.2	1818.6	5426.8	11057.9	11291.0	3794.8	788.3	737.2	557.3
82.5°	355.3	368.6	848.2	2280.4	4589.7	4696.3	1099.1	446.3	504.0	368.6
85°	102.1	104.4	377.5	850.4	1134.7	1156.9	308.6	173.2	288.7	228.7
87.5°	11.1	35.5	142.1	142.1	99.9	97.7	33.3	37.7	82.2	28.9
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°
4392.1	0°	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1	4392.1
4412.0	2.5°	4400.9	4403.2	4374.3	4325.5	4272.2	4227.8	4172.2	4127.8	4096.7	4087.9
4452.0	5°	4432.0	4416.5	4334.3	4185.6	4007.9	3854.7	3683.7	3548.3	3459.5	3421.7
4494.2	7.5°	4478.7	4434.3	4254.4	3961.3	3621.6	3319.6	3013.2	2775.6	2624.6	2549.1
4534.2	10°	4518.6	4429.8	4121.2	3637.1	3117.5	2660.1	2247.1	1960.7	1800.8	1725.3
4580.8	12.5°	4556.4	4427.6	3948.0	3253.0	2549.1	1989.5	1605.4	1463.3	1418.9	1403.3
4656.3	15°	4627.4	4434.3	3730.4	2813.3	1982.9	1503.2	1363.4	1361.1	1370.0	1365.6
4771.8	17.5°	4725.1	4440.9	3483.9	2347.0	1529.9	1325.6	1319.0	1338.9	1352.3	1345.6
4916.1	20°	4851.7	4467.6	3221.9	1885.2	1314.5	1281.2	1296.7	1314.5	1325.6	1314.5
5109.3	22.5°	5029.3	4514.2	2935.4	1514.4	1245.7	1254.6	1267.9	1287.9	1299.0	1283.4
5355.7	25°	5246.9	4587.5	2653.4	1316.7	1212.4	1223.5	1243.5	1265.7	1279.0	1263.4
5666.6	27.5°	5528.9	4705.2	2393.7	1272.3	1179.1	1185.7	1214.6	1247.9	1265.7	1245.7
6108.5	30°	5937.5	4898.3	2169.4	1292.3	1159.1	1143.5	1183.5	1230.1	1250.1	1232.4
6710.2	32.5°	6479.3	5171.4	2031.7	1323.4	1150.2	1094.7	1132.4	1192.4	1225.7	1214.6
7496.3	35°	7189.8	5586.7	1978.4	1358.9	1143.5	1043.6	1070.3	1134.7	1192.4	1203.5
8486.6	37.5°	8051.4	6164.0	1994.0	1374.5	1123.6	1001.4	1014.7	1070.3	1145.8	1181.3
9601.3	40°	9030.6	6836.8	2082.8	1358.9	1101.3	965.9	968.1	1010.3	1076.9	1130.2
10800.3	42.5°	10040.9	7622.8	2247.1	1301.2	1081.4	934.8	928.2	957.0	1001.4	1039.2
11997.1	45°	11002.4	8431.1	2409.2	1221.3	1056.9	903.7	888.2	899.3	908.2	923.7
13162.9	47.5°	11841.7	8999.5	2362.6	1148.0	1023.6	868.2	841.6	837.1	810.5	808.2
14204.3	50°	12421.2	9123.9	2098.3	1074.7	974.8	828.2	786.0	759.4	712.8	690.6
14983.6	52.5°	12605.5	8633.1	1714.2	1001.4	894.8	774.9	715.0	672.8	615.1	595.1
15432.2	55°	12361.3	7671.7	1370.0	912.6	783.8	703.9	637.3	581.8	535.1	510.7
15481.0	57.5°	11764.0	6448.2	1083.6	808.2	666.1	623.9	557.3	501.8	461.9	437.4
14939.2	60°	10773.7	5120.4	857.1	683.9	568.4	537.4	468.5	433.0	397.5	368.6
13540.4	62.5°	9270.4	3654.9	672.8	541.8	475.2	439.7	399.7	373.0	330.8	290.9
11024.6	65°	7234.3	2236.0	519.6	397.5	381.9	364.2	339.7	315.3	264.2	224.3
7192.1	67.5°	4563.0	1059.2	370.8	299.8	302.0	293.1	282.0	262.0	224.3	188.7
3221.9	70°	2009.5	512.9	244.3	228.7	224.3	224.3	233.1	226.5	191.0	157.7
1119.1	72.5°	683.9	275.3	182.1	173.2	162.1	159.9	195.4	188.7	153.2	122.1
557.3	75°	357.5	184.3	133.2	124.3	97.7	117.7	155.4	146.6	108.8	79.9
368.6	77.5°	233.1	131.0	91.0	79.9	55.5	77.7	115.5	102.1	64.4	40.0
242.0	80°	146.6	86.6	53.3	37.7	26.6	42.2	62.2	44.4	24.4	8.9
142.1	82.5°	77.7	44.4	20.0	13.3	11.1	13.3	15.5	11.1	4.4	0.0
73.3	85°	31.1	15.5	6.7	4.4	2.2	0.0	4.4	2.2	0.0	0.0
13.3	87.5°	11.1	2.2	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>
4392.1
4103.4
3435.0
2560.2
1727.5
1398.9
1363.4
1343.4
1312.3
1281.2
1261.2
1245.7
1230.1
1214.6
1203.5
1190.2
1148.0
1054.7
932.6
806.0
692.8
592.9
510.7
433.0
361.9
284.2
217.6
184.3
151.0
115.5
73.3
35.5
6.7
0.0
0.0
0.0
0.0

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