

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: STREETWORKS

Report Number: P849878

Luminaire Tested: **GLAN-SB7A-840-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7A-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28389 lumens
Efficiency: N/A
Efficacy: 142.6 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

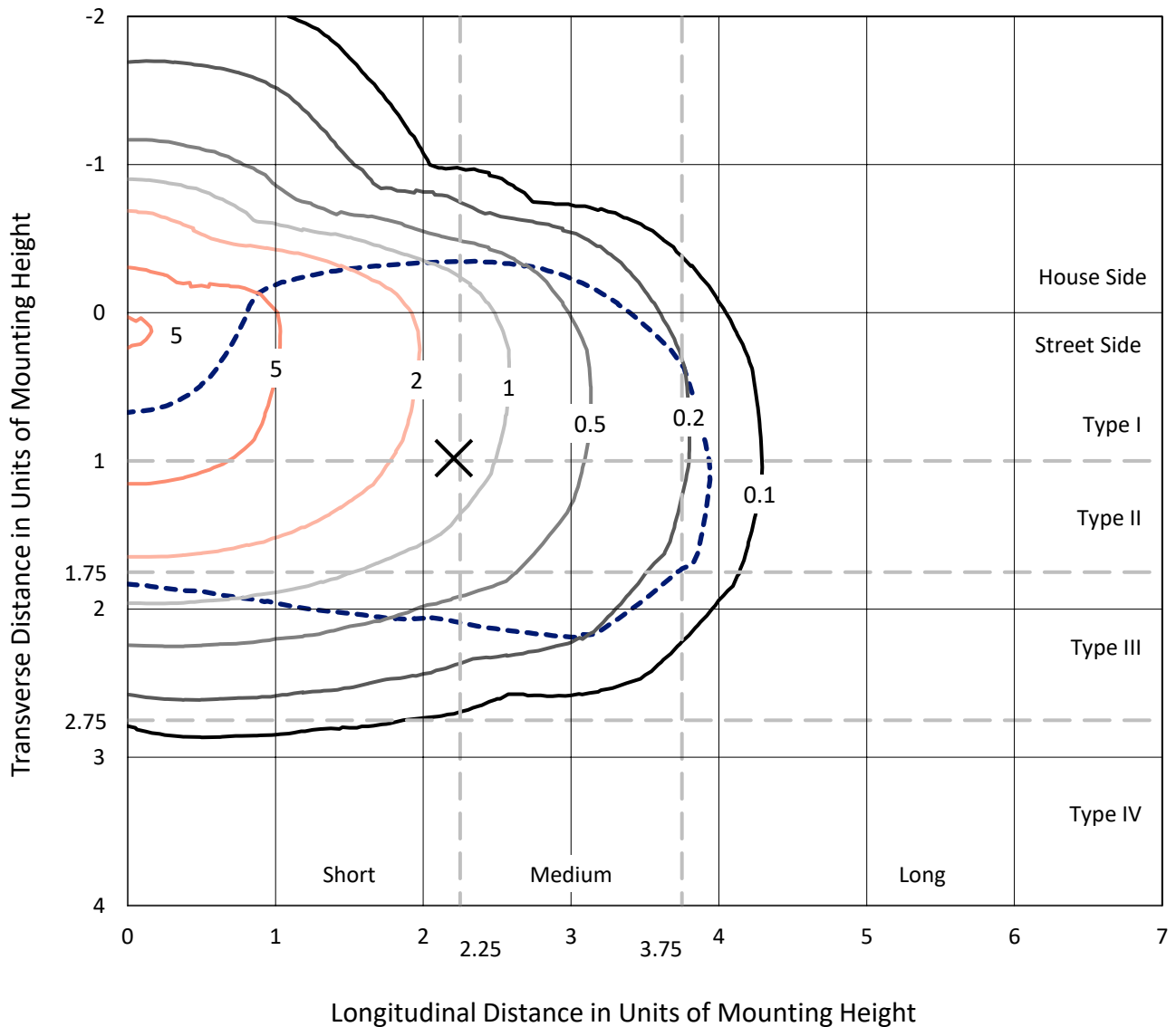
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

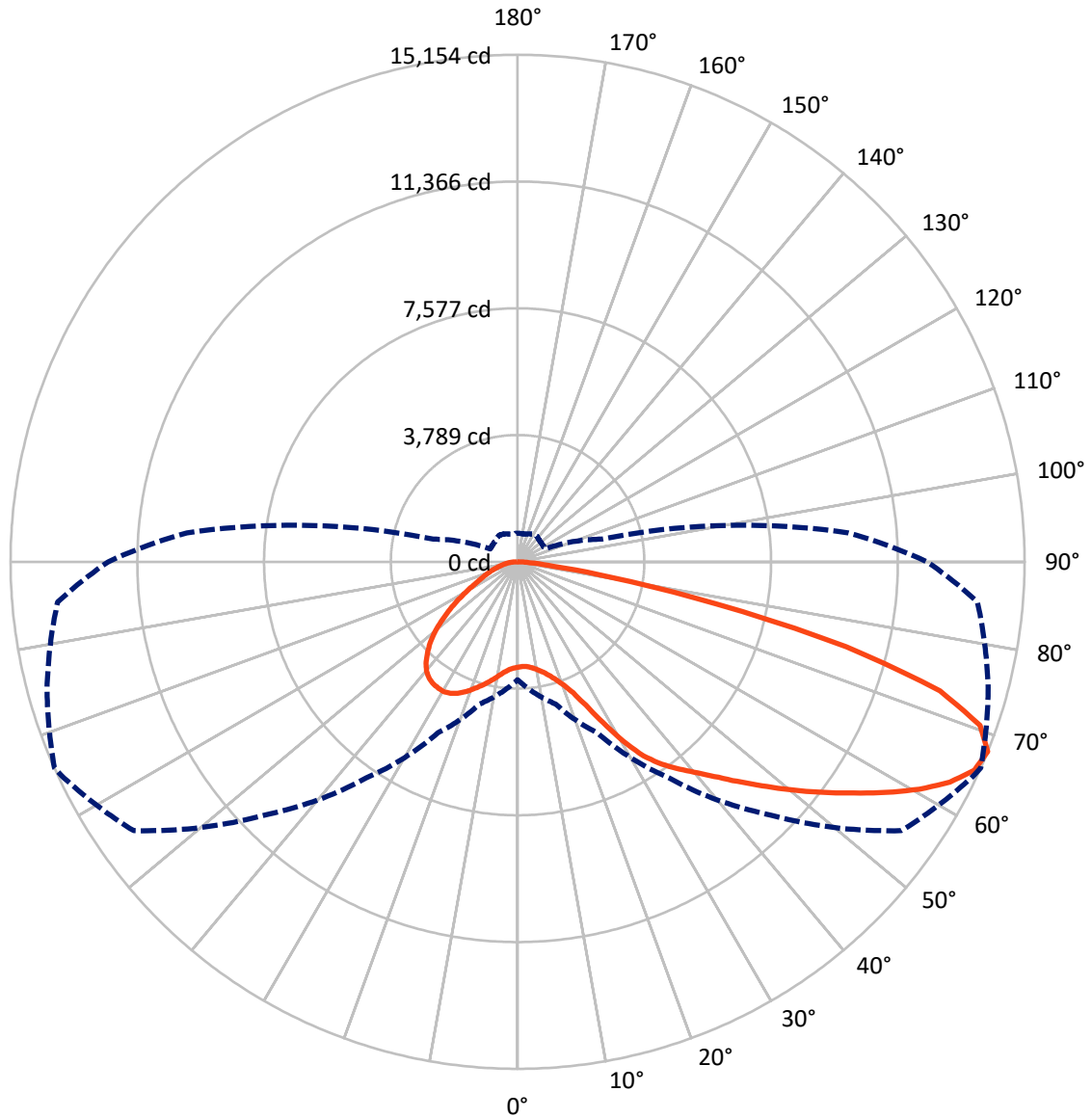
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7058.8	0.0	7058.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21330.2	0.0	21330.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	28389.0	0.0	28389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.2	1.1
10°-20°	1031.4	3.6
20°-30°	1988.0	7.0
30°-40°	3485.7	12.3
40°-50°	5182.1	18.3
50°-60°	6568.8	23.1
60°-70°	6427.4	22.6
70°-80°	3065.9	10.8
80°-90°	327.7	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°	28389.0	100.0
0°-180°	28389.0	100.0

Coefficient of Utilization

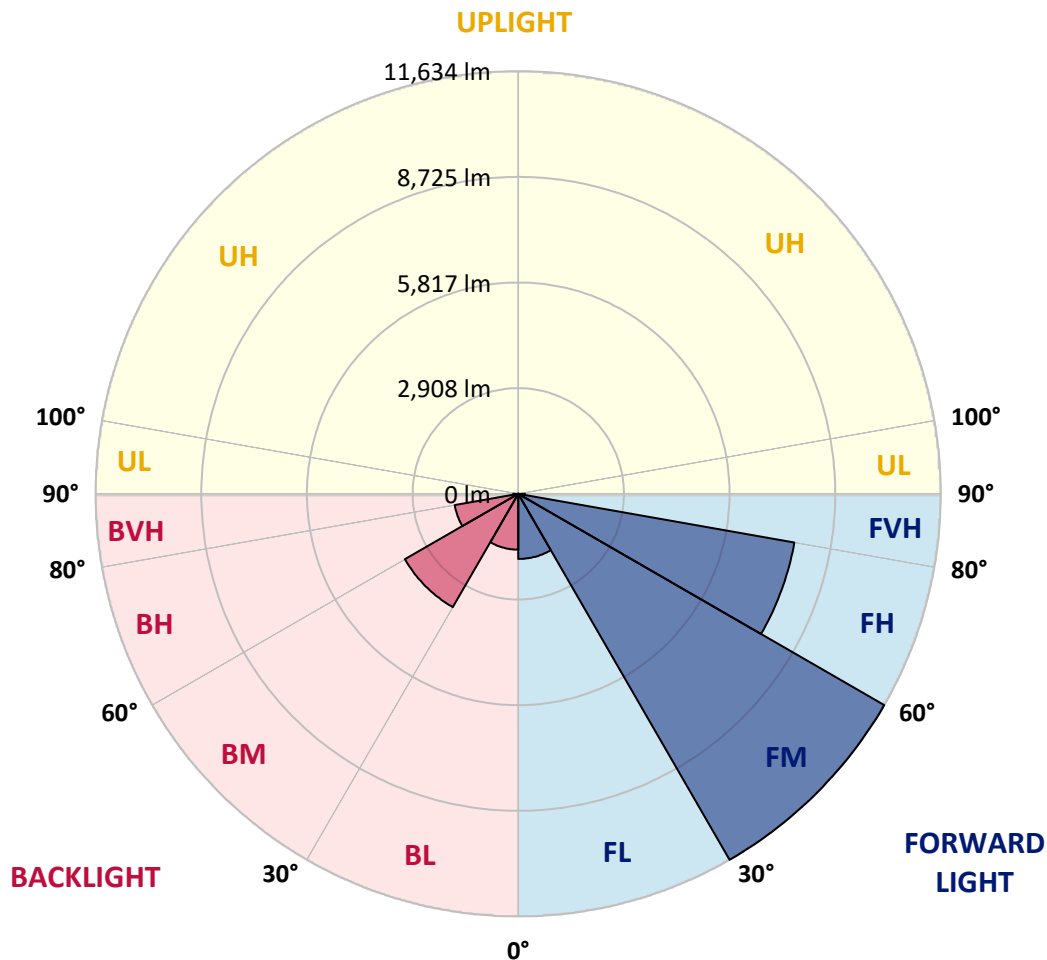


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.9	6.3			
FM (30°-60°)	11633.6	41.0			
FH (60°-80°)	7716.9	27.2			G4/12000
FVH (80°-90°)	185.8	0.7			G2/225
BL (0°-30°)	1537.7	5.4	B3/2500		
BM (30°-60°)	3602.9	12.7	B3/5000		
BH (60°-80°)	1776.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	141.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7
2.5°	3115.9	3133.8	3129.3	3121.9	3120.4	3123.4	3127.8	3132.3	3130.8	3138.3
5°	3107.0	3124.9	3123.4	3123.4	3129.3	3141.3	3148.7	3156.2	3148.7	3157.7
7.5°	3112.9	3126.3	3132.3	3138.3	3153.2	3175.6	3193.5	3209.9	3200.9	3211.4
10°	3189.0	3199.4	3205.4	3205.4	3215.8	3241.2	3259.1	3288.9	3281.5	3297.9
12.5°	3327.7	3338.1	3338.1	3332.2	3339.6	3356.0	3362.0	3394.8	3381.4	3408.2
15°	3497.7	3518.6	3502.2	3491.8	3494.8	3511.2	3509.7	3535.0	3521.6	3544.0
17.5°	3685.7	3712.5	3685.7	3684.2	3678.2	3696.1	3697.6	3720.0	3696.1	3712.5
20°	3907.9	3945.2	3922.8	3930.3	3916.9	3924.3	3931.8	3964.6	3927.3	3939.3
22.5°	4221.2	4265.9	4242.0	4270.4	4261.4	4255.5	4254.0	4312.1	4254.0	4258.4
25°	4677.6	4731.3	4689.5	4728.3	4728.3	4747.7	4770.1	4844.6	4747.7	4719.3
27.5°	5351.8	5405.5	5323.4	5347.3	5339.8	5387.6	5363.7	5548.7	5444.2	5398.0
30°	6163.2	6258.6	6103.5	6097.6	6090.1	6166.2	6200.5	6322.8	6216.9	6170.6
32.5°	7040.2	7140.2	6955.2	6901.5	6873.2	6919.4	6891.1	6989.5	6916.4	6844.8
35°	7968.0	8066.4	7890.4	7786.0	7672.7	7575.7	7474.3	7499.6	7431.0	7322.1
37.5°	8845.0	9025.5	8839.1	8727.2	8518.4	8329.0	8045.6	7927.7	7863.6	7763.6
40°	9738.5	9841.4	9699.7	9604.3	9377.5	9080.7	8627.3	8378.2	8291.7	8194.7
42.5°	10396.3	10494.7	10418.7	10353.0	10175.5	9831.0	9244.8	8933.0	8807.8	8698.9
45°	10918.3	10991.4	10943.7	10967.6	10891.5	10557.4	9884.7	9528.2	9398.4	9265.7
47.5°	11128.6	11206.2	11282.3	11424.0	11553.7	11307.6	10572.3	10172.5	10035.3	9899.6
50°	11104.8	11183.8	11404.6	11705.9	12108.6	12026.6	11297.2	10858.7	10731.9	10576.8
52.5°	10913.9	11003.4	11286.7	11787.9	12429.3	12565.0	12035.5	11567.2	11447.8	11262.9
55°	10412.7	10466.4	10891.5	11601.5	12505.4	12940.9	12758.9	12321.9	12202.6	11944.5
57.5°	9483.4	9561.0	10180.0	11098.8	12314.4	13196.0	13394.3	13115.4	13000.6	12629.2
60°	8270.8	8394.6	9103.1	10254.6	11828.2	13194.5	13971.6	13895.5	13800.1	13303.4
62.5°	6898.5	7041.7	7723.4	9061.3	10978.0	12820.1	14332.5	14548.8	14499.6	13925.3
65°	5298.1	5396.5	6075.2	7517.5	9655.0	12016.1	14374.3	14994.8	15003.8	14398.2
67.5°	3527.6	3811.0	4400.1	5641.1	7883.0	10702.1	14007.4	15067.9	15154.4	14560.8
70°	1721.3	2094.2	2671.4	3666.3	5641.1	8686.9	13048.3	14468.3	14660.7	14086.4
72.5°	714.5	835.3	1150.0	1809.3	3238.2	5861.9	11121.2	12842.5	13198.9	12481.5
75°	481.8	522.1	657.8	927.8	1475.2	2890.7	8020.2	9575.9	10150.2	9426.8
77.5°	371.4	396.8	478.8	648.8	877.0	1093.3	4292.8	5770.9	6067.7	5617.3
80°	292.3	311.7	358.0	472.8	622.0	584.7	1463.2	2614.7	2786.3	2337.3
82.5°	253.6	261.0	256.6	320.7	413.2	341.6	480.3	965.0	1065.0	772.6
85°	183.5	204.3	213.3	198.4	219.3	173.0	196.9	341.6	375.9	335.6
87.5°	74.6	110.4	135.7	128.3	80.5	49.2	61.2	99.9	114.9	125.3
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°
3148.7	0°	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7	3148.7
3150.2	2.5°	3151.7	3162.1	3169.6	3178.5	3184.5	3193.5	3211.4	3221.8	3223.3	3230.8
3174.1	5°	3180.0	3195.0	3211.4	3235.2	3262.1	3284.4	3318.8	3342.6	3351.6	3359.0
3232.2	7.5°	3241.2	3262.1	3291.9	3333.7	3372.5	3402.3	3444.0	3472.4	3500.7	3511.2
3324.7	10°	3332.2	3362.0	3405.3	3461.9	3503.7	3542.5	3585.7	3609.6	3638.0	3649.9
3435.1	12.5°	3445.5	3476.9	3533.5	3612.6	3651.4	3678.2	3693.1	3687.2	3693.1	3703.6
3567.8	15°	3575.3	3609.6	3673.7	3758.8	3785.6	3761.8	3728.9	3699.1	3694.6	3697.6
3728.9	17.5°	3728.9	3754.3	3828.9	3900.5	3881.1	3782.6	3711.0	3663.3	3639.4	3632.0
3934.8	20°	3943.7	3943.7	4004.9	4049.6	3919.9	3752.8	3640.9	3563.4	3514.2	3493.3
4215.2	22.5°	4204.8	4180.9	4219.7	4188.3	3912.4	3669.3	3514.2	3379.9	3305.3	3275.5
4607.5	25°	4535.9	4507.5	4497.1	4303.2	3858.7	3536.5	3284.4	3121.9	3056.2	3039.8
5172.8	27.5°	5035.6	4964.0	4828.2	4365.8	3760.3	3327.7	3016.0	2865.3	2828.0	2829.5
5899.2	30°	5700.8	5557.6	5225.0	4376.3	3599.2	3032.4	2741.5	2634.1	2616.2	2623.7
6509.2	32.5°	6316.8	6181.1	5630.7	4328.6	3351.6	2743.0	2495.4	2423.8	2397.0	2405.9
6974.6	35°	6800.1	6762.8	6006.6	4261.4	3047.3	2471.5	2274.7	2213.5	2161.3	2149.4
7413.1	37.5°	7256.5	7241.6	6288.5	4167.5	2746.0	2279.1	2097.2	2016.6	1940.5	1898.8
7897.9	40°	7757.7	7742.8	6473.4	4022.8	2479.0	2112.1	1937.6	1831.7	1737.7	1661.6
8446.8	42.5°	8321.5	8233.5	6561.4	3815.4	2252.3	1970.4	1807.8	1664.6	1540.8	1470.7
9067.3	45°	8937.5	8739.1	6559.9	3551.4	2061.4	1840.6	1669.1	1466.2	1351.4	1285.7
9704.2	47.5°	9590.8	9222.4	6479.4	3259.1	1876.4	1697.4	1454.3	1299.2	1223.1	1182.8
10396.3	50°	10265.0	9674.4	6342.2	2923.5	1687.0	1534.8	1320.0	1214.1	1156.0	1118.7
11082.4	52.5°	10898.9	10084.5	6176.6	2543.1	1494.6	1376.7	1260.4	1178.3	1117.2	1075.4
11747.6	55°	11488.1	10438.0	5942.4	2153.8	1337.9	1270.8	1232.0	1163.4	1093.3	1044.1
12423.3	57.5°	12011.7	10667.7	5538.2	1788.4	1226.1	1197.7	1202.2	1138.1	1057.5	1015.8
13088.6	60°	12447.2	10836.3	4940.1	1449.8	1135.1	1126.1	1156.0	1090.3	996.4	948.6
13650.9	62.5°	12708.2	10833.3	4206.2	1187.3	1057.5	1060.5	1094.8	1030.7	935.2	890.5
13944.7	65°	12685.8	10567.8	3400.8	1015.8	982.9	985.9	1030.7	965.0	884.5	857.7
13797.1	67.5°	12236.9	9920.5	2608.8	903.9	900.9	914.3	966.5	920.3	853.2	850.2
12917.0	70°	11021.2	8576.6	1879.4	814.4	815.9	835.3	903.9	892.0	836.8	842.7
10860.2	72.5°	8837.6	6539.1	1261.9	720.4	721.9	753.2	844.2	869.6	820.4	899.4
7705.5	75°	5885.8	4078.0	811.4	620.5	622.0	662.3	792.0	826.3	775.6	896.4
4009.4	77.5°	2828.0	1833.1	587.7	522.1	522.1	559.3	684.6	739.8	660.8	696.6
1288.7	80°	977.0	689.1	462.4	420.6	411.7	437.0	577.2	641.4	569.8	525.0
420.6	82.5°	384.8	358.0	371.4	326.7	296.8	313.2	449.0	529.5	419.1	378.9
237.2	85°	220.8	232.7	262.5	216.3	171.5	192.4	329.6	380.4	316.2	278.9
77.6	87.5°	59.7	82.0	120.8	111.9	77.6	82.0	156.6	210.3	182.0	140.2
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>
3148.7
3229.3
3357.5
3512.7
3655.9
3706.6
3708.1
3642.4
3488.8
3271.0
3042.8
2834.0
2649.0
2417.8
2158.3
1900.3
1669.1
1475.2
1282.8
1173.9
1105.3
1057.5
1024.7
988.9
927.8
877.0
856.2
854.7
841.2
911.4
903.9
638.4
492.2
377.4
284.9
144.7
0.0

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