

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: P849888

Luminaire Tested: **GLAN-SB7A-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849888
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-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27410 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

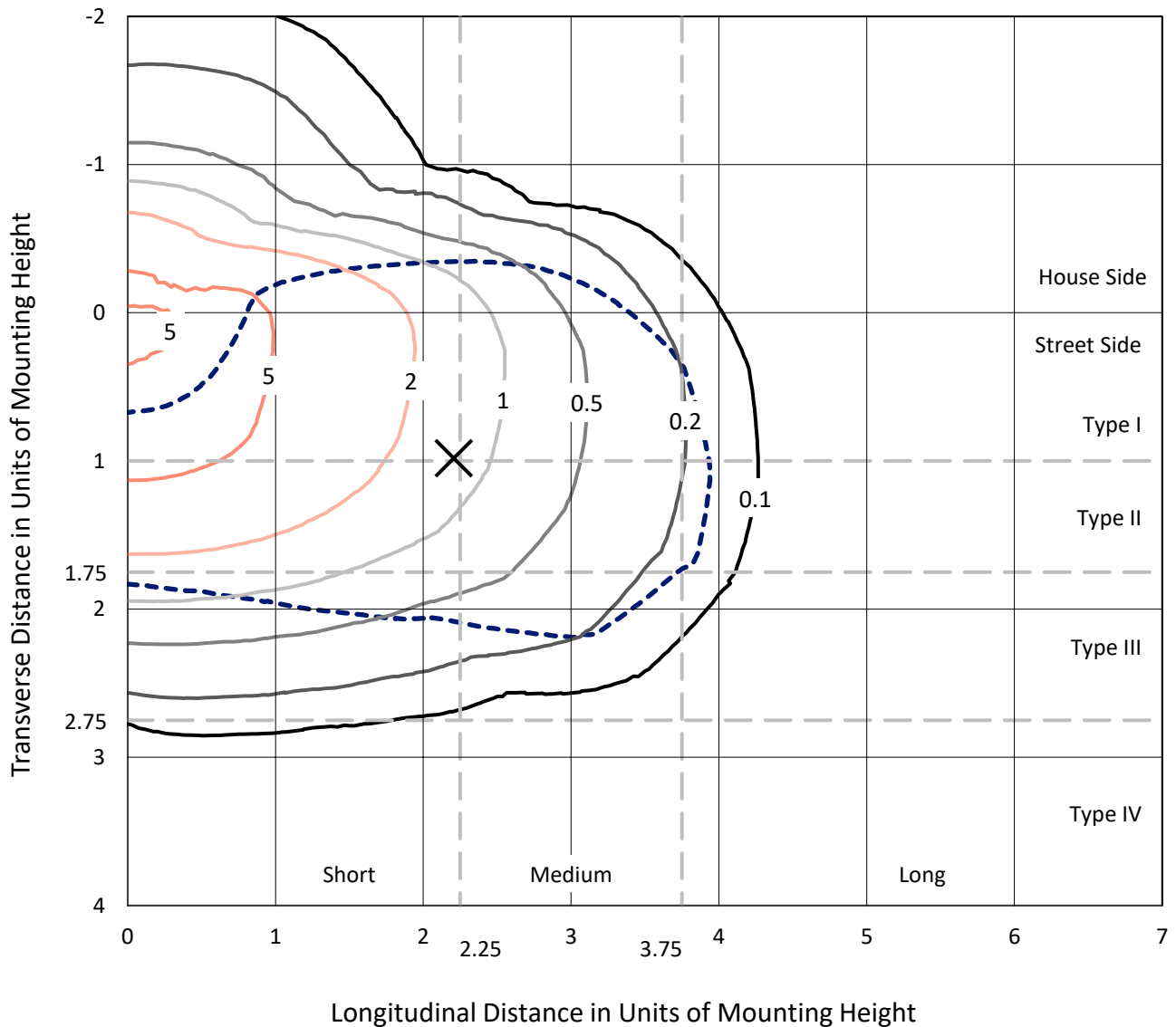
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

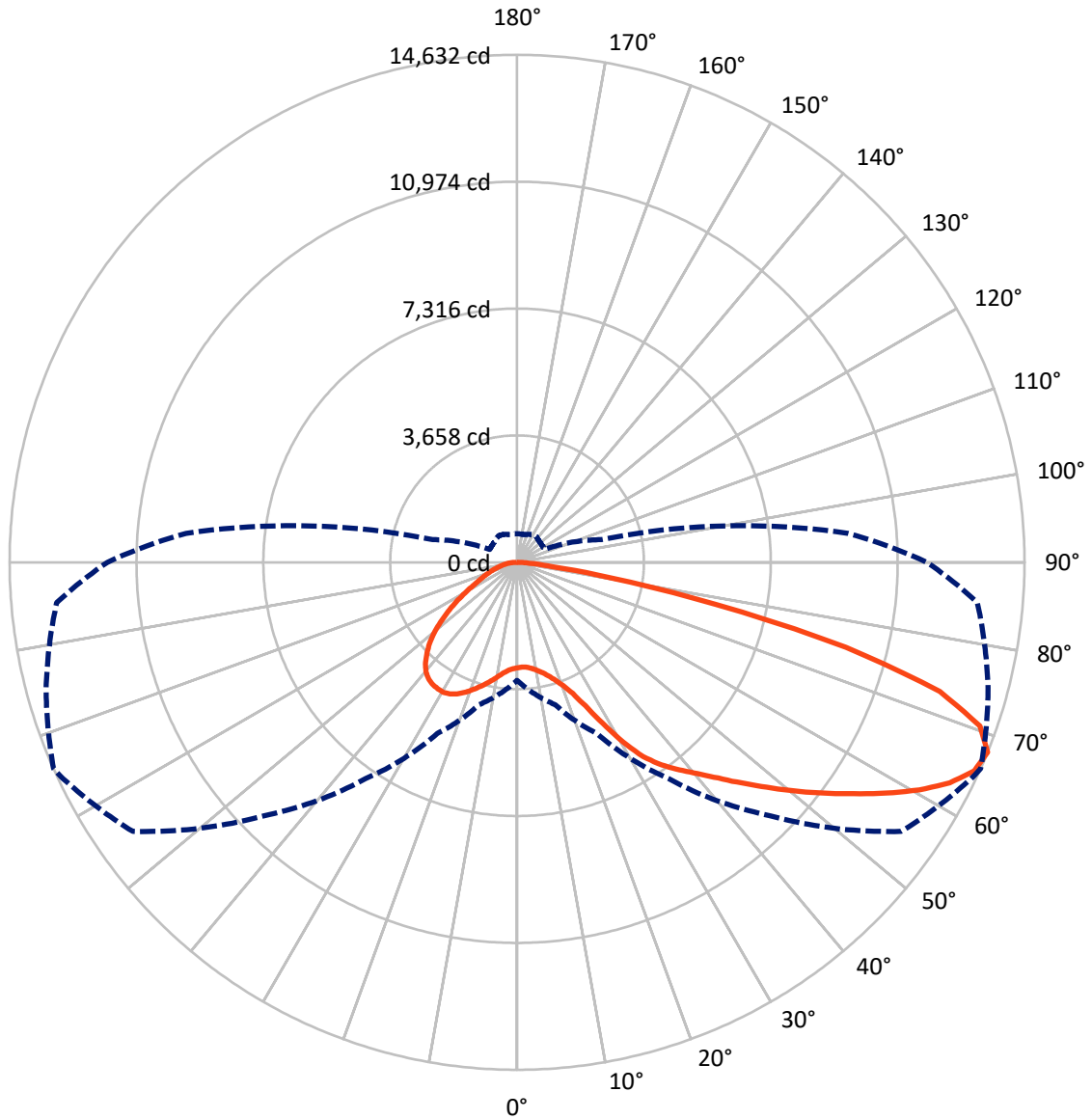
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	6815.4	0.0	6815.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	20594.6	0.0	20594.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	27410.0	0.0	27410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.1
10°-20°	995.8	3.6
20°-30°	1919.4	7.0
30°-40°	3365.5	12.3
40°-50°	5003.3	18.3
50°-60°	6342.2	23.1
60°-70°	6205.7	22.6
70°-80°	2960.2	10.8
80°-90°	316.4	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°	27410.0	100.0
0°-180°	27410.0	100.0

Coefficient of Utilization



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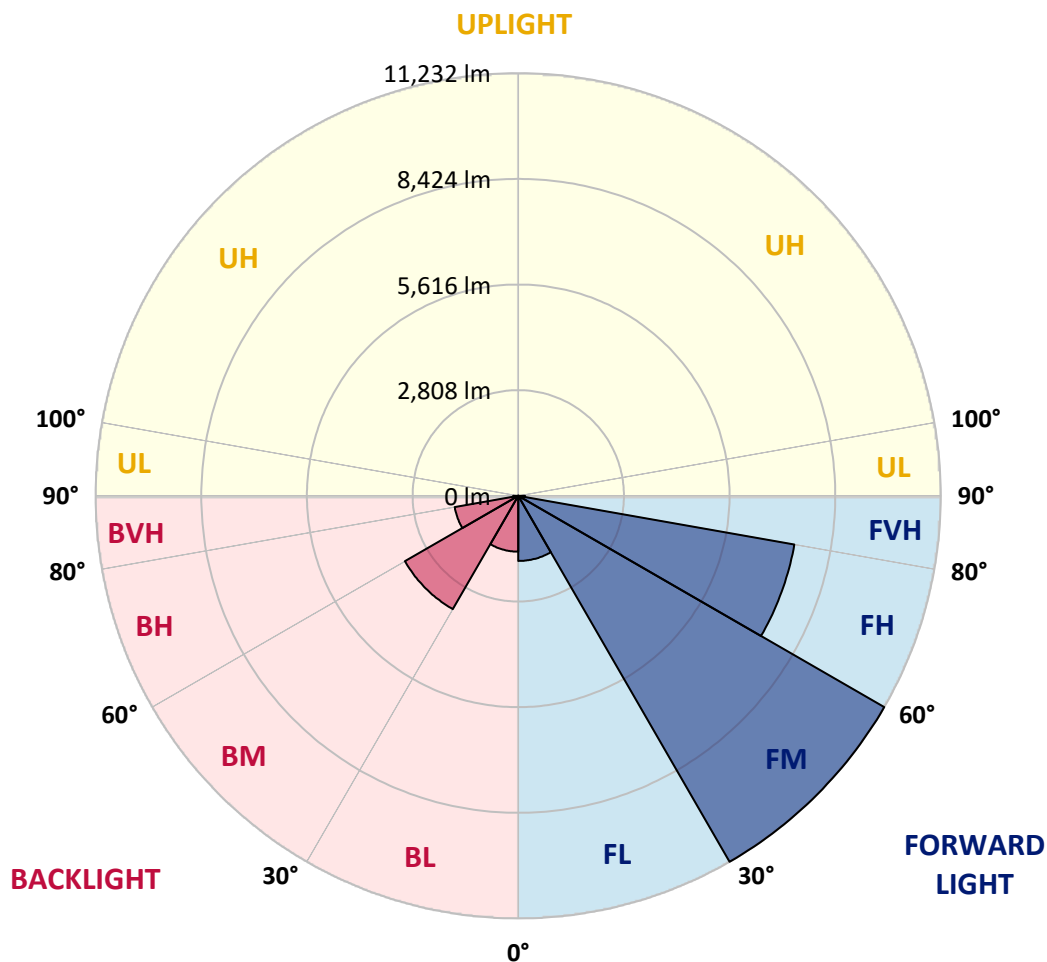
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.0	6.3			
FM (30°-60°)	11232.4	41.0			
FH (60°-80°)	7450.8	27.2			G3/7500
FVH (80°-90°)	179.4	0.7			G2/225
BL (0°-30°)	1484.6	5.4	B3/2500		
BM (30°-60°)	3478.7	12.7	B3/5000		
BH (60°-80°)	1715.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	137.0	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1
2.5°	3008.4	3025.7	3021.4	3014.2	3012.8	3015.6	3020.0	3024.3	3022.8	3030.1
5°	2999.8	3017.1	3015.6	3015.6	3021.4	3032.9	3040.1	3047.3	3040.1	3048.8
7.5°	3005.6	3018.5	3024.3	3030.1	3044.5	3066.1	3083.3	3099.2	3090.5	3100.6
10°	3079.0	3089.1	3094.9	3094.9	3104.9	3129.4	3146.7	3175.5	3168.3	3184.1
12.5°	3212.9	3223.0	3223.0	3217.3	3224.5	3240.3	3246.1	3277.8	3264.8	3290.7
15°	3377.1	3397.3	3381.4	3371.4	3374.2	3390.1	3388.6	3413.1	3400.2	3421.8
17.5°	3558.6	3584.5	3558.6	3557.1	3551.4	3568.7	3570.1	3591.7	3568.7	3584.5
20°	3773.2	3809.2	3787.6	3794.8	3781.8	3789.0	3796.2	3827.9	3791.9	3803.4
22.5°	4075.6	4118.8	4095.8	4123.1	4114.5	4108.7	4107.3	4163.4	4107.3	4111.6
25°	4516.3	4568.1	4527.8	4565.2	4565.2	4584.0	4605.6	4677.6	4584.0	4556.6
27.5°	5167.2	5219.1	5139.9	5162.9	5155.7	5201.8	5178.7	5357.3	5256.5	5211.9
30°	5950.7	6042.8	5893.0	5887.3	5880.1	5953.5	5986.7	6104.7	6002.5	5957.9
32.5°	6797.5	6893.9	6715.4	6663.5	6636.2	6680.8	6653.4	6748.5	6677.9	6608.8
35°	7693.2	7788.3	7618.3	7517.5	7408.1	7314.5	7216.5	7241.0	7174.8	7069.6
37.5°	8540.0	8714.3	8534.3	8426.2	8224.6	8041.7	7768.1	7654.3	7592.4	7495.9
40°	9402.7	9502.0	9365.2	9273.0	9054.1	8767.6	8329.8	8089.3	8005.7	7912.1
42.5°	10037.8	10132.8	10059.4	9996.0	9824.6	9491.9	8926.0	8625.0	8504.0	8398.9
45°	10541.8	10612.4	10566.3	10589.3	10515.9	10193.3	9543.8	9199.6	9074.3	8946.1
47.5°	10744.9	10819.8	10893.2	11030.0	11155.3	10917.7	10207.7	9821.7	9689.2	9558.2
50°	10721.8	10798.2	11011.3	11302.2	11691.0	11611.8	10907.6	10484.2	10361.8	10212.0
52.5°	10537.5	10623.9	10897.5	11381.4	12000.7	12131.7	11620.5	11168.3	11053.1	10874.5
55°	10053.6	10105.4	10515.9	11201.4	12074.1	12494.6	12318.9	11897.0	11781.8	11532.6
57.5°	9156.4	9231.3	9828.9	10716.1	11889.8	12740.9	12932.4	12663.1	12552.2	12193.6
60°	7985.6	8105.1	8789.2	9900.9	11420.3	12739.5	13489.8	13416.3	13324.2	12844.6
62.5°	6660.6	6798.9	7457.0	8748.8	10599.4	12378.0	13838.3	14047.1	13999.6	13445.1
65°	5115.4	5210.4	5865.7	7258.3	9322.0	11601.8	13878.6	14477.7	14486.3	13901.7
67.5°	3405.9	3679.6	4248.4	5446.6	7611.1	10333.0	13524.3	14548.3	14631.8	14058.6
70°	1661.9	2022.0	2579.3	3539.9	5446.6	8387.4	12598.3	13969.3	14155.1	13600.7
72.5°	689.8	806.5	1110.3	1746.9	3126.5	5659.7	10737.7	12399.6	12743.8	12051.1
75°	465.2	504.0	635.1	895.8	1424.3	2791.0	7743.6	9245.7	9800.1	9101.7
77.5°	358.6	383.1	462.3	626.5	846.8	1055.6	4144.7	5571.9	5858.5	5423.6
80°	282.3	301.0	345.6	456.5	600.5	564.5	1412.8	2524.6	2690.2	2256.7
82.5°	244.8	252.0	247.7	309.6	398.9	329.8	463.7	931.8	1028.3	746.0
85°	177.1	197.3	205.9	191.5	211.7	167.1	190.1	329.8	362.9	324.0
87.5°	72.0	106.6	131.1	123.9	77.8	47.5	59.0	96.5	110.9	121.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3040.1	0°	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1	3040.1
3041.6	2.5°	3043.0	3053.1	3060.3	3068.9	3074.7	3083.3	3100.6	3110.7	3112.1	3119.3
3064.6	5°	3070.4	3084.8	3100.6	3123.7	3149.6	3171.2	3204.3	3227.3	3236.0	3243.2
3120.8	7.5°	3129.4	3149.6	3178.4	3218.7	3256.2	3285.0	3325.3	3352.6	3380.0	3390.1
3210.1	10°	3217.3	3246.1	3287.8	3342.6	3382.9	3420.3	3462.1	3485.1	3512.5	3524.0
3316.6	12.5°	3326.7	3357.0	3411.7	3488.0	3525.5	3551.4	3565.8	3560.0	3565.8	3575.9
3444.8	15°	3452.0	3485.1	3547.1	3629.1	3655.1	3632.0	3600.3	3571.5	3567.2	3570.1
3600.3	17.5°	3600.3	3624.8	3696.8	3766.0	3747.2	3652.2	3583.1	3537.0	3513.9	3506.7
3799.1	20°	3807.7	3807.7	3866.8	3910.0	3784.7	3623.4	3515.4	3440.5	3393.0	3372.8
4069.8	22.5°	4059.7	4036.7	4074.2	4043.9	3777.5	3542.7	3393.0	3263.4	3191.3	3162.5
4448.6	25°	4379.5	4352.1	4342.0	4154.8	3725.6	3414.6	3171.2	3014.2	2950.8	2935.0
4994.4	27.5°	4861.9	4792.8	4661.7	4215.3	3630.6	3212.9	2912.0	2766.5	2730.5	2731.9
5695.7	30°	5504.2	5366.0	5044.8	4225.4	3475.1	2927.8	2647.0	2543.3	2526.0	2533.2
6284.8	32.5°	6099.0	5967.9	5436.5	4179.3	3236.0	2648.4	2409.4	2340.2	2314.3	2322.9
6734.1	35°	6565.6	6529.6	5799.4	4114.5	2942.2	2386.3	2196.2	2137.2	2086.8	2075.2
7157.5	37.5°	7006.3	6991.9	6071.6	4023.7	2651.3	2200.5	2024.8	1947.1	1873.6	1833.3
7625.5	40°	7490.2	7475.8	6250.2	3884.1	2393.5	2039.2	1870.7	1768.5	1677.8	1604.3
8155.5	42.5°	8034.5	7949.6	6335.2	3683.9	2174.6	1902.4	1745.4	1607.2	1487.7	1420.0
8754.6	45°	8629.3	8437.8	6333.7	3429.0	1990.3	1777.1	1611.5	1415.7	1304.8	1241.4
9369.5	47.5°	9260.1	8904.4	6256.0	3146.7	1811.7	1638.9	1404.1	1254.4	1180.9	1142.0
10037.8	50°	9911.0	9340.7	6123.5	2822.7	1628.8	1481.9	1274.5	1172.3	1116.1	1080.1
10700.2	52.5°	10523.1	9736.8	5963.6	2455.4	1443.0	1329.2	1216.9	1137.7	1078.7	1038.3
11342.5	55°	11091.9	10078.1	5737.5	2079.6	1291.8	1227.0	1189.6	1123.3	1055.6	1008.1
11994.9	57.5°	11597.4	10299.9	5347.2	1726.7	1183.8	1156.4	1160.8	1098.8	1021.1	980.7
12637.2	60°	12018.0	10462.6	4769.7	1399.8	1095.9	1087.3	1116.1	1052.7	962.0	915.9
13180.1	62.5°	12270.0	10459.7	4061.2	1146.3	1021.1	1023.9	1057.1	995.1	903.0	859.8
13463.8	65°	12248.4	10203.4	3283.5	980.7	949.1	951.9	995.1	931.8	854.0	828.1
13321.3	67.5°	11814.9	9578.4	2518.8	872.7	869.8	882.8	933.2	888.6	823.8	820.9
12471.6	70°	10641.2	8280.8	1814.6	786.3	787.8	806.5	872.7	861.2	807.9	813.7
10485.6	72.5°	8532.8	6313.6	1218.4	695.6	697.0	727.3	815.1	839.6	792.1	868.4
7439.8	75°	5682.8	3937.3	783.4	599.1	600.5	639.4	764.7	797.8	748.9	865.5
3871.1	77.5°	2730.5	1769.9	567.4	504.0	504.0	540.1	661.0	714.3	638.0	672.5
1244.3	80°	943.3	665.3	446.4	406.1	397.5	422.0	557.3	619.3	550.1	506.9
406.1	82.5°	371.6	345.6	358.6	315.4	286.6	302.4	433.5	511.2	404.7	365.8
229.0	85°	213.1	224.7	253.5	208.8	165.6	185.8	318.3	367.2	305.3	269.3
74.9	87.5°	57.6	79.2	116.7	108.0	74.9	79.2	151.2	203.1	175.7	135.4
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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180°
3040.1
3117.9
3241.8
3391.5
3529.8
3578.7
3580.2
3516.8
3368.5
3158.2
2937.9
2736.3
2557.7
2334.5
2083.9
1834.7
1611.5
1424.3
1238.5
1133.4
1067.1
1021.1
989.4
954.8
895.8
846.8
826.6
825.2
812.2
879.9
872.7
616.4
475.2
364.4
275.1
139.7
0.0

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