

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: P944708

Luminaire Tested: **GALN-SB9D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944708
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-SB9D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA 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: 74246 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 IV - Short
BUG Rating: B4 - U0 - G5

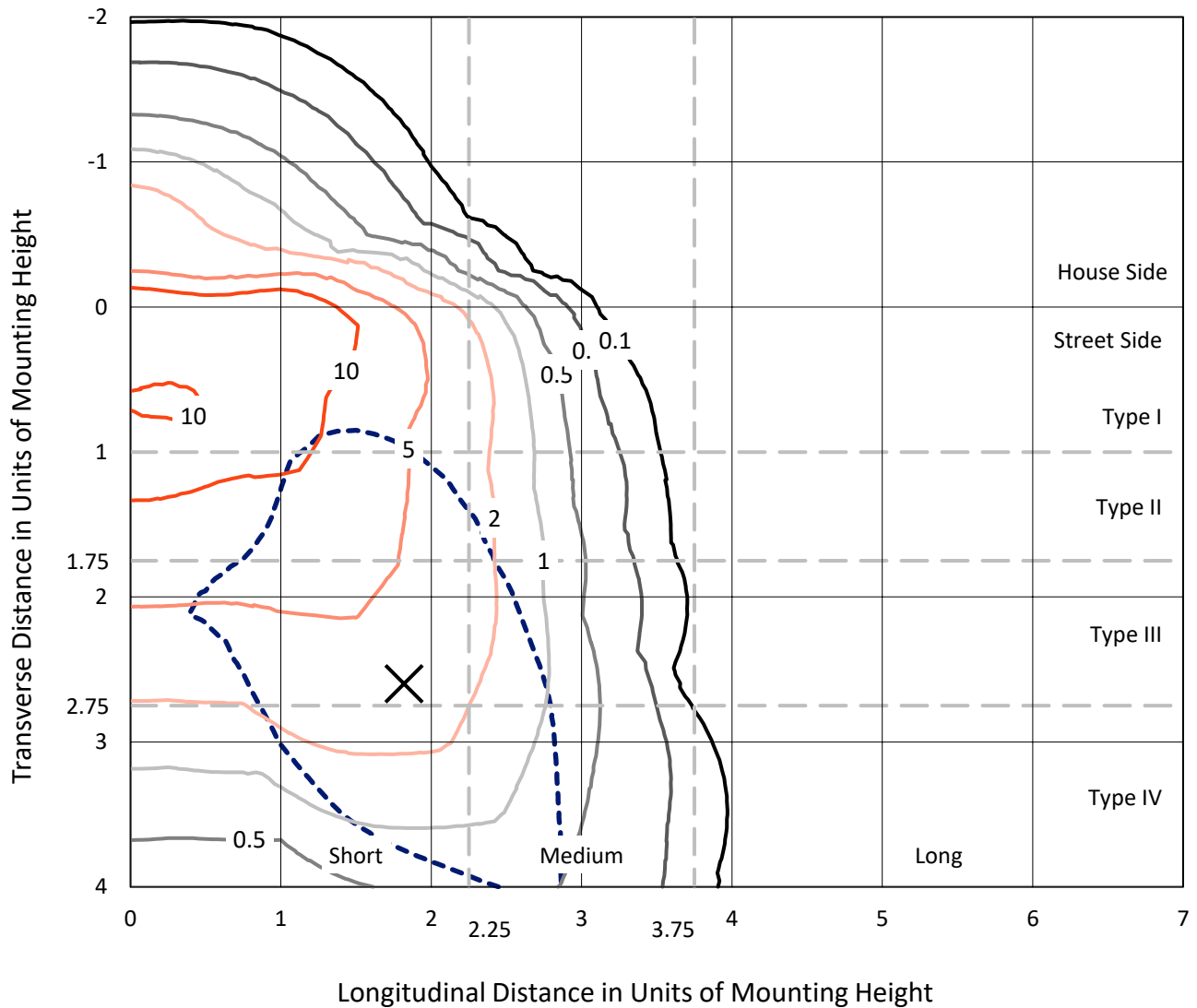
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

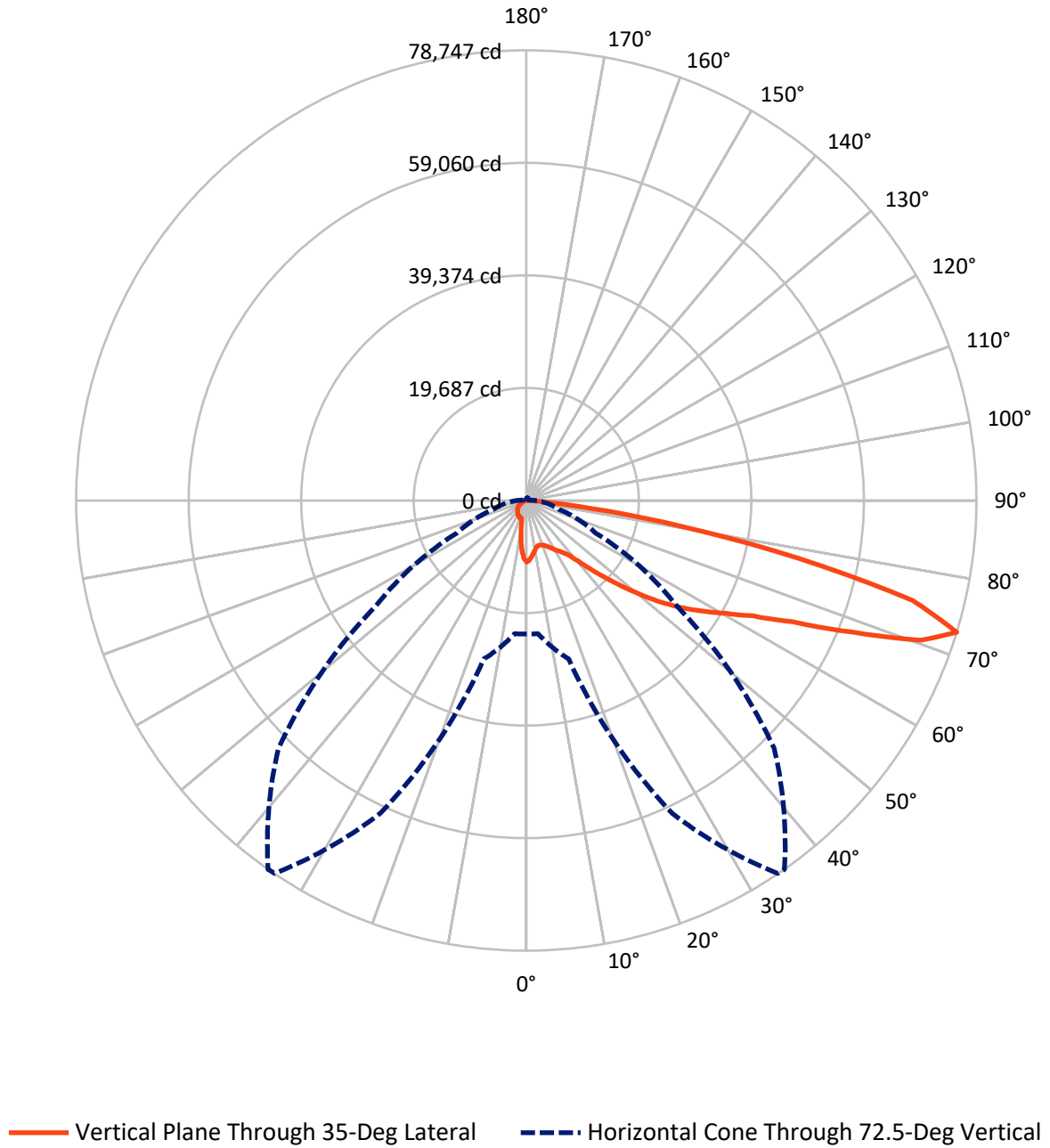
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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	8356.0	0.0	8356.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	65890.0	0.0	65890.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	74246.0	0.0	74246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.2	1.2
10°-20°	2068.6	2.8
20°-30°	3360.4	4.5
30°-40°	5606.7	7.6
40°-50°	10608.1	14.3
50°-60°	16856.2	22.7
60°-70°	20852.3	28.1
70°-80°	12961.9	17.5
80°-90°	1047.5	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°	74246.0	100.0
0°-180°	74246.0	100.0

Coefficient of Utilization



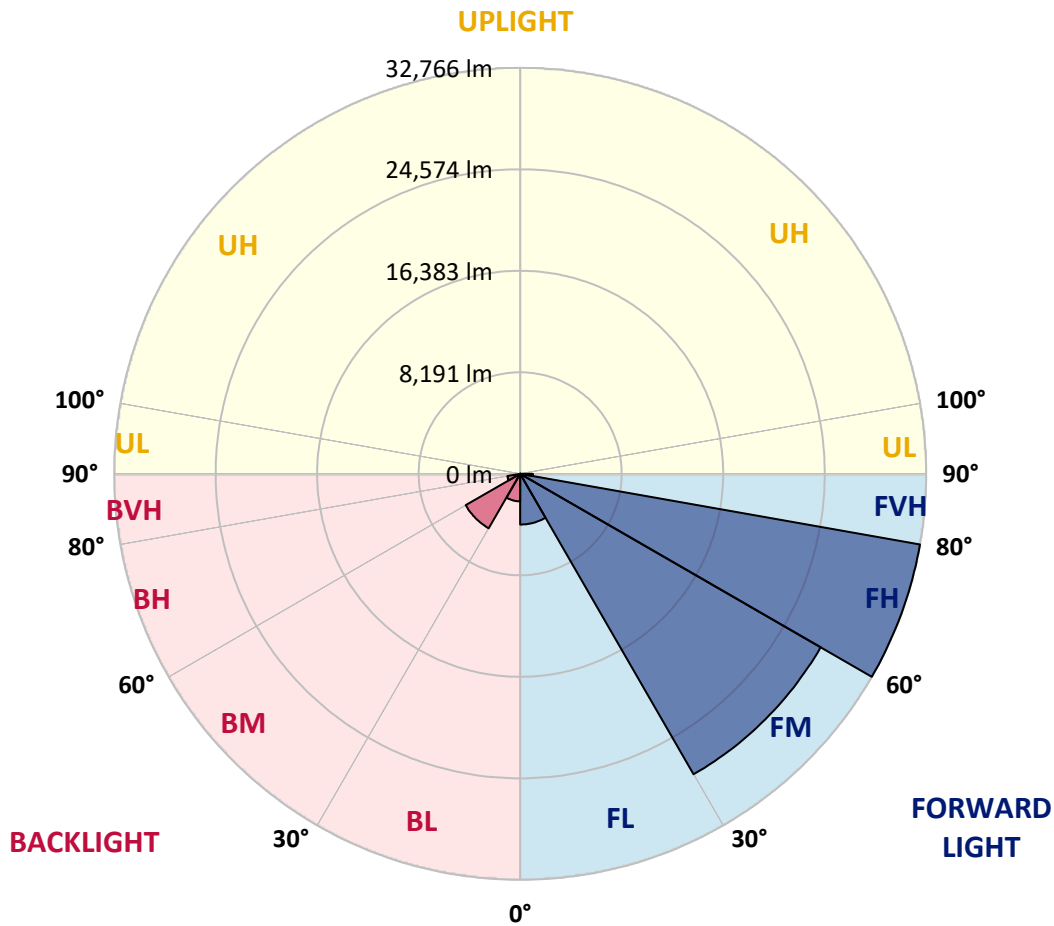
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.8	5.5			
FM (30°-60°)	27998.2	37.7			
FH (60°-80°)	32765.7	44.1			G5
FVH (80°-90°)	1033.3	1.4			G5
BL (0°-30°)	2220.4	3.0	B3/2500		
BM (30°-60°)	5072.9	6.8	B4/8500		
BH (60°-80°)	1048.6	1.4	B3/2500		G3/2500
BVH (80°-90°)	14.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7
2.5°	10282.0	10369.0	10385.4	10412.6	10412.6	10445.2	10499.6	10575.8	10700.9	10766.2
5°	9476.8	9542.1	9623.7	9689.0	9814.1	9830.5	10042.6	10249.4	10537.7	10755.3
7.5°	8666.3	8742.4	8851.2	9009.0	9172.2	9221.2	9542.1	9890.3	10347.3	10755.3
10°	8095.0	8100.5	8198.4	8356.2	8617.3	8677.1	9068.8	9563.9	10135.1	10690.0
12.5°	7774.1	7812.1	7855.7	7975.3	8225.6	8263.7	8682.6	9264.7	9922.9	10651.9
15°	7774.1	7801.3	7828.5	7888.3	8089.6	8122.2	8492.2	9074.3	9814.1	10668.3
17.5°	7855.7	7899.2	7877.4	7948.1	8160.3	8182.1	8508.5	9019.9	9808.7	10771.6
20°	8051.5	8084.2	8040.6	8084.2	8296.3	8339.8	8677.1	9123.2	9901.2	10951.1
22.5°	8361.6	8377.9	8274.6	8307.2	8524.8	8579.2	8970.9	9417.0	10124.2	11239.5
25°	8753.3	8785.9	8628.2	8666.3	8873.0	8938.3	9389.8	9857.7	10477.8	11636.6
27.5°	9204.8	9221.2	9085.2	9079.7	9346.3	9438.8	9895.7	10401.7	10951.1	12137.1
30°	9721.7	9770.6	9640.1	9618.3	9955.6	10031.7	10483.3	11070.8	11647.5	12887.9
32.5°	10129.7	10167.8	10091.6	10146.0	10488.7	10548.6	11196.0	12017.4	12741.0	13954.1
35°	10717.2	10739.0	10564.9	10662.8	11054.5	11206.8	12169.7	13344.8	14117.3	15292.4
37.5°	12844.3	12844.3	12104.5	11620.3	11995.7	12131.7	13502.6	15015.0	15814.7	17087.7
40°	15787.5	15738.5	14655.9	13665.8	13616.8	13883.4	15401.2	17120.3	18007.1	19242.0
42.5°	18926.5	18850.3	17376.0	16396.8	16233.6	16326.1	17593.6	19715.3	20618.4	21869.6
45°	21711.9	21690.1	20340.9	19024.4	18730.6	19024.4	20330.1	22751.0	23398.3	24714.9
47.5°	24045.7	24045.7	23061.0	22201.5	22049.2	22223.3	24034.8	26118.4	26058.6	27745.1
50°	26733.2	26711.4	25775.7	25405.8	25563.5	25808.4	28300.0	29665.5	28811.4	30720.9
52.5°	28615.5	28746.1	28425.1	28365.3	29170.4	29594.7	32630.4	33136.3	31275.8	33544.3
55°	30106.1	30258.4	30628.4	31047.3	32597.7	33152.6	36824.8	36427.6	33337.6	35992.4
57.5°	32216.9	31999.3	32570.5	33397.4	35905.4	36574.5	40888.6	39534.0	34996.9	37978.1
60°	34779.3	34811.9	34909.8	35954.3	39207.6	40067.1	44892.6	42471.7	36063.1	39196.7
62.5°	37858.4	37907.4	38108.7	39713.5	43641.4	44452.0	49157.7	44876.3	36552.8	38854.0
65°	37646.3	37853.0	40099.8	45589.0	50381.8	51181.5	54135.5	46562.8	35812.9	35720.4
67.5°	34295.1	34632.4	38391.6	52606.8	60544.1	61436.3	60152.4	46894.6	32619.5	27777.7
70°	29899.4	30019.1	34539.9	58917.5	72311.3	73214.3	65538.2	43244.2	24753.0	15493.7
72.5°	23349.4	23376.6	28680.8	60380.9	78698.1	78747.0	61311.2	32102.7	13312.2	5951.6
75°	16679.7	16516.5	19209.4	48967.3	69237.5	69792.4	45964.3	15058.5	5086.6	2812.6
77.5°	8943.7	9123.2	10869.5	29039.8	47830.3	48776.9	25079.4	4341.3	2589.5	1915.0
80°	2763.6	2916.0	4455.5	13295.9	27092.2	27663.5	9297.3	1931.3	1806.1	1365.5
82.5°	870.4	903.1	2078.2	5587.1	11244.9	11506.0	2692.9	1093.5	1234.9	903.1
85°	250.2	255.7	924.8	2083.6	2779.9	2834.3	756.2	424.3	707.2	560.3
87.5°	27.2	87.0	348.2	348.2	244.8	239.4	81.6	92.5	201.3	70.7
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°
10760.7	0°	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7	10760.7
10809.7	2.5°	10782.5	10787.9	10717.2	10597.5	10467.0	10358.2	10222.2	10113.3	10037.2	10015.4
10907.6	5°	10858.7	10820.6	10619.3	10254.8	9819.6	9444.2	9025.3	8693.5	8475.8	8383.4
11011.0	7.5°	10972.9	10864.1	10423.4	9705.3	8873.0	8133.1	7382.4	6800.3	6430.3	6245.4
11108.9	10°	11070.8	10853.2	10097.0	8911.1	7638.1	6517.4	5505.5	4803.7	4412.0	4227.0
11223.2	12.5°	11163.3	10847.8	9672.7	7969.9	6245.4	4874.4	3933.3	3585.1	3476.3	3438.2
11408.1	15°	11337.4	10864.1	9139.6	6892.7	4858.1	3683.0	3340.3	3334.8	3356.6	3345.7
11691.0	17.5°	11576.8	10880.4	8535.7	5750.3	3748.3	3247.8	3231.5	3280.4	3313.1	3296.8
12044.6	20°	11886.9	10945.7	7893.7	4618.7	3220.6	3139.0	3177.1	3220.6	3247.8	3220.6
12517.9	22.5°	12322.1	11059.9	7192.0	3710.2	3052.0	3073.7	3106.4	3155.3	3182.5	3144.4
13121.8	25°	12855.2	11239.5	6501.1	3226.0	2970.4	2997.6	3046.5	3100.9	3133.6	3095.5
13883.4	27.5°	13546.1	11527.8	5864.5	3117.2	2888.8	2905.1	2975.8	3057.4	3100.9	3052.0
14966.0	30°	14547.1	12001.1	5315.1	3166.2	2839.8	2801.7	2899.6	3013.9	3062.8	3019.3
16440.3	32.5°	15874.5	12670.2	4977.8	3242.4	2818.0	2682.0	2774.5	2921.4	3003.0	2975.8
18366.1	35°	17615.4	13687.6	4847.2	3329.4	2801.7	2556.9	2622.2	2779.9	2921.4	2948.6
20792.5	37.5°	19726.2	15102.0	4885.3	3367.5	2752.7	2453.5	2486.2	2622.2	2807.1	2894.2
23523.5	40°	22125.3	16750.4	5102.9	3329.4	2698.3	2366.5	2371.9	2475.3	2638.5	2769.1
26461.2	42.5°	24600.6	18676.2	5505.5	3188.0	2649.4	2290.3	2274.0	2344.7	2453.5	2546.0
29393.5	45°	26956.2	20656.5	5902.6	2992.1	2589.5	2214.2	2176.1	2203.3	2225.0	2263.1
32249.6	47.5°	29012.6	22049.2	5788.4	2812.6	2507.9	2127.1	2061.8	2051.0	1985.7	1980.2
34801.0	50°	30432.5	22353.8	5141.0	2633.1	2388.3	2029.2	1925.8	1860.6	1746.3	1691.9
36710.5	52.5°	30884.1	21151.5	4199.8	2453.5	2192.4	1898.6	1751.7	1648.4	1506.9	1458.0
37809.5	55°	30285.6	18795.9	3356.6	2235.9	1920.4	1724.5	1561.3	1425.3	1311.1	1251.2
37929.1	57.5°	28822.2	15798.4	2654.8	1980.2	1632.1	1528.7	1365.5	1229.5	1131.6	1071.7
36601.7	60°	26395.9	12545.1	2099.9	1675.6	1392.7	1316.5	1147.9	1060.8	973.8	903.1
33174.4	62.5°	22712.9	8954.6	1648.4	1327.4	1164.2	1077.2	979.2	914.0	810.6	712.7
27010.6	65°	17724.2	5478.3	1273.0	973.8	935.7	892.2	832.4	772.5	647.4	549.5
17620.8	67.5°	11179.6	2595.0	908.5	734.4	739.9	718.1	690.9	641.9	549.5	462.4
7893.7	70°	4923.4	1256.7	598.4	560.3	549.5	549.5	571.2	554.9	467.9	386.3
2741.9	72.5°	1675.6	674.6	446.1	424.3	397.1	391.7	478.7	462.4	375.4	299.2
1365.5	75°	875.9	451.5	326.4	304.7	239.4	288.3	380.8	359.1	266.6	195.8
903.1	77.5°	571.2	321.0	223.0	195.8	136.0	190.4	282.9	250.2	157.8	97.9
593.0	80°	359.1	212.2	130.6	92.5	65.3	103.4	152.3	108.8	59.8	21.8
348.2	82.5°	190.4	108.8	49.0	32.6	27.2	32.6	38.1	27.2	10.9	0.0
179.5	85°	76.2	38.1	16.3	10.9	5.4	0.0	10.9	5.4	0.0	0.0
32.6	87.5°	27.2	5.4	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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180°
10760.7
10053.5
8416.0
6272.6
4232.5
3427.3
3340.3
3291.3
3215.2
3139.0
3090.0
3052.0
3013.9
2975.8
2948.6
2916.0
2812.6
2584.1
2284.9
1974.8
1697.3
1452.5
1251.2
1060.8
886.8
696.3
533.1
451.5
369.9
282.9
179.5
87.0
16.3
0.0
0.0
0.0
0.0

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