

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: P955994

Luminaire Tested: **GALN-SB8D-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73708 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

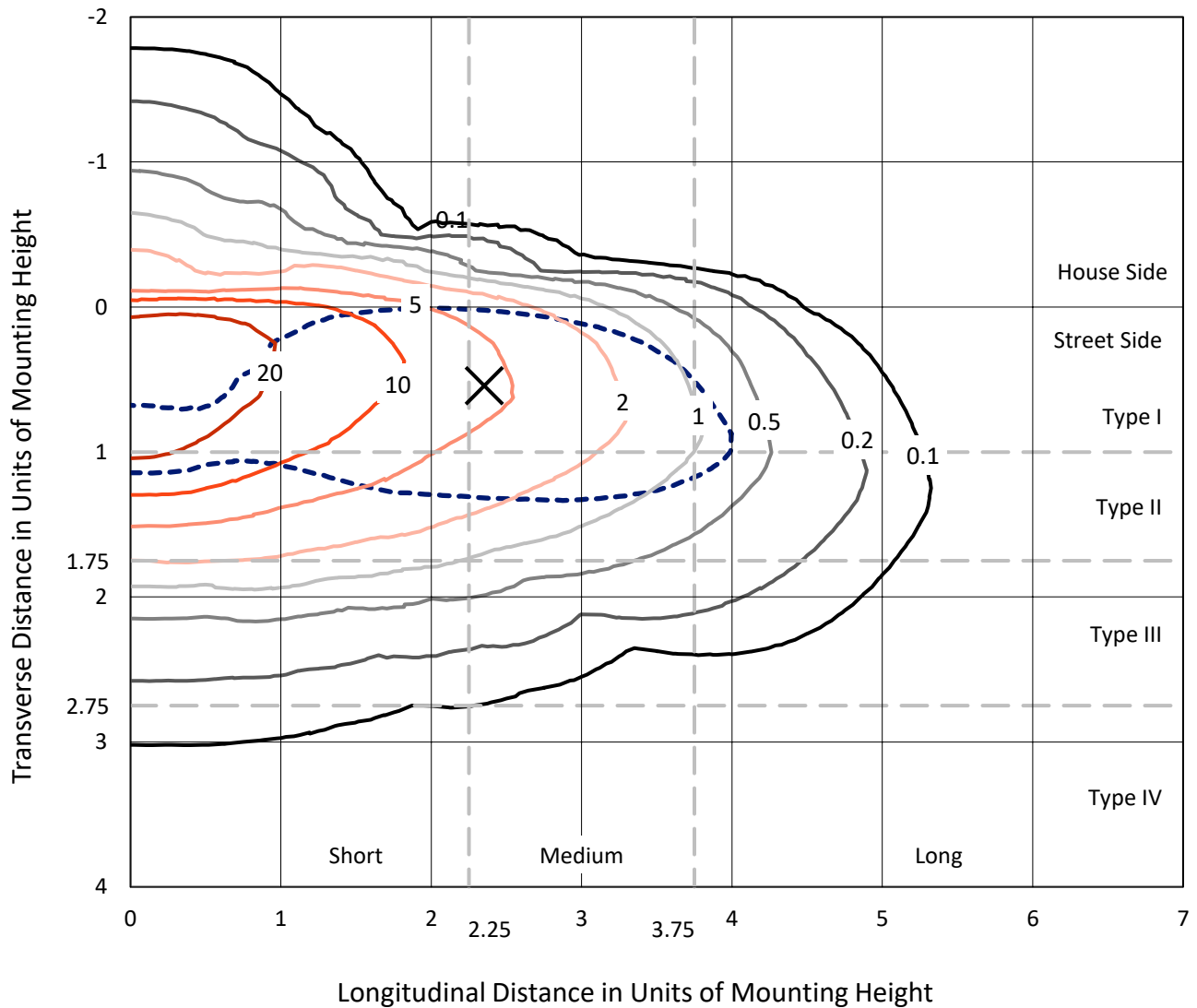
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955994
 CATALOG NUMBER: GALN-SB8D-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

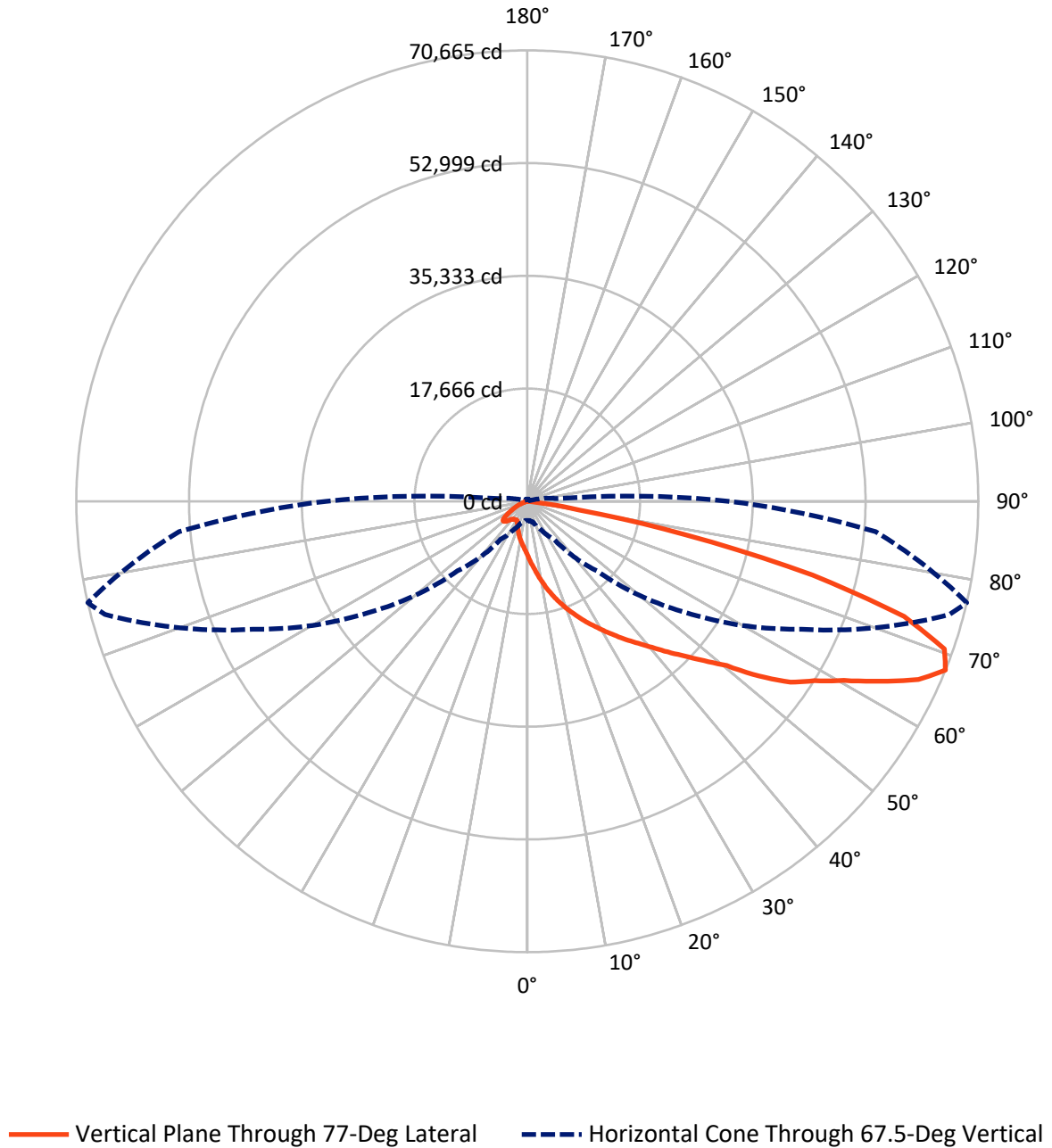
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P955994
CATALOG NUMBER: GALN-SB8D-740-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5422.7	0.0	5422.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	68285.3	0.0	68285.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	73708.0	0.0	73708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.5	1.2
10°-20°	3038.0	4.1
20°-30°	5862.4	8.0
30°-40°	10177.5	13.8
40°-50°	14777.2	20.0
50°-60°	16969.8	23.0
60°-70°	14732.9	20.0
70°-80°	6939.4	9.4
80°-90°	343.2	0.5
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°	73708.0	100.0
0°-180°	73708.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955994

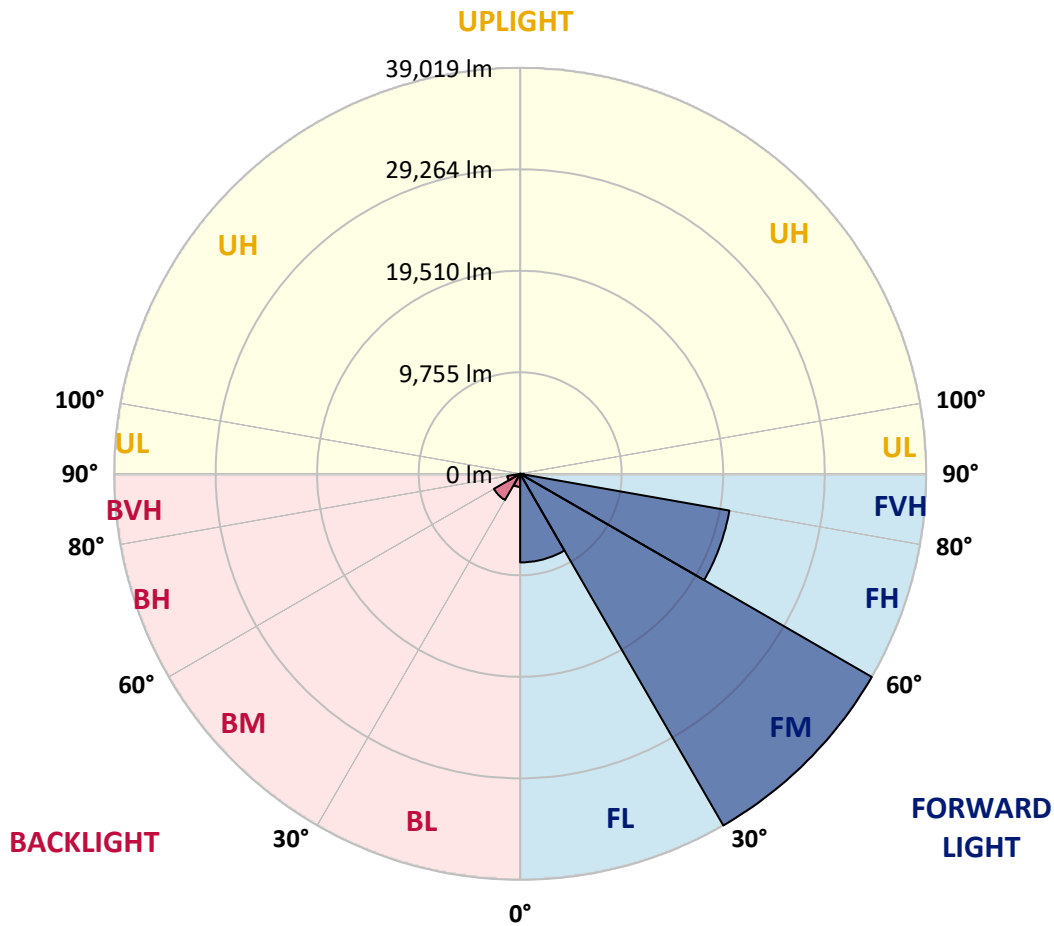
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8512.5	11.5			
FM (30°-60°)	39019.0	52.9			
FH (60°-80°)	20416.9	27.7			G5
FVH (80°-90°)	336.9	0.5			G3/500
BL (0°-30°)	1255.4	1.7	B3/2500		
BM (30°-60°)	2905.6	3.9	B3/5000		
BH (60°-80°)	1255.4	1.7	B3/2500		G3/2500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium



REPORT NUMBER: P955994

CATALOG NUMBER: GALN-SB8D-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6
2.5°	11767.6	11840.9	11735.6	11534.2	11232.1	11035.3	10554.7	10101.6	9598.1	9437.9
5°	14344.5	14408.6	14289.6	14069.9	13667.1	13282.7	12651.0	11703.6	10719.5	10403.7
7.5°	16253.2	16289.8	16244.0	16042.6	15658.2	15223.3	14518.5	13397.1	11937.0	11589.1
10°	17626.3	17745.3	17731.6	17653.8	17397.4	17045.0	16294.4	15017.4	13301.0	12852.4
12.5°	18537.1	18669.9	18747.7	18921.6	18907.9	18683.6	18024.5	16674.3	14660.3	14134.0
15°	18802.6	18944.5	19242.0	19644.8	20001.8	20116.2	19653.9	18299.1	16157.1	15484.2
17.5°	18651.6	18871.3	19228.3	19864.5	20647.2	21164.4	21114.0	19869.1	17516.4	16747.5
20°	18985.7	19196.2	19475.4	20010.9	20921.8	21860.1	22235.4	21370.3	18866.7	18061.1
22.5°	20834.8	20798.2	20825.7	20912.6	21457.3	22386.4	23160.0	22734.3	20203.2	19379.3
25°	23764.1	23599.4	23320.2	22848.7	22711.4	23160.0	23965.5	23942.6	21612.9	20729.5
27.5°	27123.7	27096.2	26441.7	25306.6	24665.8	24491.9	24876.4	25119.0	23008.9	22066.0
30°	30341.4	30414.6	29531.2	28268.0	27091.7	26409.7	26061.8	26235.8	24427.8	23507.8
32.5°	33142.6	33220.4	32259.2	30780.8	29325.3	28501.4	27769.1	27338.8	25974.9	24972.5
35°	35508.9	35586.7	34483.6	32849.6	31298.0	30551.9	29723.5	28547.2	27531.1	26597.3
37.5°	37623.5	37600.6	36122.2	34474.5	32950.3	32359.9	31925.1	30034.7	29133.0	28231.4
40°	38873.0	38969.2	37705.9	35888.8	34410.4	33980.2	33952.7	31879.3	30982.2	30108.0
42.5°	39239.2	39408.6	38493.1	37001.0	35659.9	35193.1	35911.7	33874.9	33133.4	32282.1
45°	38580.1	38744.9	38328.4	37294.0	36511.3	36209.2	37596.0	35943.7	35431.1	34588.9
47.5°	36657.7	36863.7	36964.4	36744.7	36735.6	37042.2	39106.5	38122.4	38159.0	37298.5
50°	32936.6	33284.4	34209.0	34987.1	36190.9	37701.3	40575.7	40484.2	41234.8	40493.3
52.5°	26171.7	26666.0	29851.6	31980.0	34685.0	37577.7	42191.4	44274.0	46631.2	45546.4
55°	21031.6	21031.6	23622.2	27604.3	31746.5	36763.0	42896.3	46736.4	50306.6	50050.2
57.5°	17145.7	17351.7	19004.0	22523.8	27494.4	34822.3	43331.1	48283.5	53267.9	53080.3
60°	10582.2	11026.2	14147.7	17621.7	22656.5	31366.6	43056.5	49848.9	56860.9	57012.0
62.5°	5959.3	6124.1	7515.5	12678.5	17617.1	26720.9	40955.6	50723.1	61456.3	62097.1
65°	4114.8	4197.2	4732.7	7890.9	12211.6	21274.2	36850.0	50178.4	66060.8	67356.1
67.5°	2988.8	3030.0	3364.1	4819.7	7245.5	15424.7	30414.6	47432.2	68500.4	70665.4
70°	2297.7	2325.2	2567.7	3167.3	4279.6	9520.3	22088.9	41971.7	66733.7	69319.7
72.5°	1867.4	1894.9	2082.6	2343.5	2837.8	5629.8	13387.9	34085.4	58934.3	61726.3
75°	1574.5	1611.1	1780.5	1949.8	2224.5	3615.9	6279.7	23736.7	44319.8	46150.6
77.5°	874.2	805.6	1446.4	1615.7	1876.6	2288.5	2938.5	13969.2	24821.4	25329.5
80°	544.7	563.0	1148.8	1299.9	1441.8	1153.4	1345.7	5378.1	8604.9	8174.6
82.5°	32.0	73.2	883.4	938.3	988.6	494.3	508.1	1826.3	2073.4	1904.1
85°	0.0	0.0	402.8	325.0	343.3	141.9	146.5	425.7	279.2	302.1
87.5°	0.0	0.0	0.0	9.2	0.0	13.7	27.5	36.6	13.7	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955994
 CATALOG NUMBER: GALN-SB8D-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8499.6	0°	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6	8499.6
8934.4	2.5°	8614.0	8293.6	7643.7	7007.5	6490.3	6009.7	5666.4	5341.4	5176.7	5167.5
9511.1	5°	8874.9	8202.1	6902.2	5753.4	4828.8	4087.3	3606.7	3263.4	3089.5	3030.0
10220.6	7.5°	9241.1	8229.6	6252.3	4654.9	3565.5	2929.3	2654.7	2544.8	2508.2	2467.0
11021.6	10°	9703.4	8293.6	5671.0	3748.6	2810.3	2489.9	2380.1	2334.3	2306.8	2279.4
11923.3	12.5°	10220.6	8353.1	5094.3	3112.4	2471.6	2306.8	2229.0	2174.1	2137.5	2105.5
12847.8	15°	10724.1	8389.8	4494.7	2668.4	2297.7	2165.0	2082.6	2023.1	1972.7	1936.1
13754.1	17.5°	11223.0	8440.1	3931.7	2403.0	2155.8	2023.1	1940.7	1867.4	1826.3	1785.1
14706.1	20°	11776.8	8431.0	3400.8	2215.3	2013.9	1881.2	1794.2	1725.6	1684.4	1638.6
15713.1	22.5°	12289.4	8385.2	2933.9	2055.1	1867.4	1739.3	1643.2	1574.5	1533.3	1496.7
16742.9	25°	12879.9	8348.6	2544.8	1908.6	1730.1	1602.0	1496.7	1432.6	1386.9	1354.8
17777.3	27.5°	13447.4	8293.6	2261.1	1775.9	1597.4	1473.8	1373.1	1299.9	1258.7	1235.8
18843.8	30°	14005.8	8279.9	2155.8	1647.7	1478.4	1354.8	1254.1	1185.5	1153.4	1144.3
20015.5	32.5°	14678.7	8316.5	2201.6	1602.0	1368.5	1245.0	1148.8	1098.5	1066.5	1066.5
21320.0	35°	15397.3	8307.4	2270.2	1643.2	1295.3	1135.1	1061.9	1029.8	997.8	997.8
22766.3	37.5°	16298.9	8321.1	2325.2	1711.8	1267.8	1043.6	1002.4	961.2	942.9	942.9
24350.0	40°	17644.6	8774.2	2297.7	1771.3	1258.7	979.5	897.1	883.4	869.6	869.6
26139.6	42.5°	19292.3	9758.3	2334.3	1775.9	1254.1	933.7	823.9	851.3	819.3	814.7
28158.1	45°	21095.7	10833.9	2567.7	1679.8	1249.5	910.8	787.3	819.3	768.9	768.9
30497.0	47.5°	22885.3	11900.4	2805.7	1542.5	1235.8	906.3	755.2	736.9	723.2	727.8
33545.3	50°	25352.4	12770.0	2897.3	1354.8	1203.8	897.1	695.7	700.3	691.1	700.3
37843.2	52.5°	28039.1	12953.1	2787.4	1144.3	1112.2	869.6	654.5	672.8	668.3	677.4
40868.6	55°	29714.3	12756.3	2302.3	952.0	970.3	759.8	613.3	649.9	649.9	649.9
43825.4	57.5°	31444.5	11918.7	1634.0	773.5	805.6	622.5	576.7	627.1	622.5	617.9
47386.4	60°	32689.4	10563.9	1075.6	636.2	640.8	512.6	535.5	590.4	585.9	563.0
51057.2	62.5°	33618.6	9067.2	691.1	540.1	489.7	462.3	489.7	535.5	517.2	466.9
54169.6	65°	33513.3	6993.8	530.9	462.3	402.8	402.8	425.7	466.9	411.9	329.5
54764.6	67.5°	31558.9	4732.7	439.4	389.1	338.7	334.1	352.4	389.1	352.4	279.2
51716.3	70°	28066.6	3094.1	352.4	302.1	270.0	247.2	283.8	334.1	297.5	224.3
44026.8	72.5°	22780.1	1885.8	265.5	219.7	196.8	160.2	224.3	274.6	238.0	164.8
30616.0	75°	14738.2	961.2	183.1	141.9	105.3	96.1	164.8	206.0	164.8	100.7
13584.7	77.5°	5638.9	402.8	100.7	64.1	54.9	45.8	91.5	123.6	68.7	22.9
2631.8	80°	1084.8	169.4	50.3	32.0	27.5	18.3	13.7	9.2	0.0	0.0
466.9	82.5°	187.7	54.9	18.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0
91.5	85°	64.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.0	87.5°	22.9	0.0	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°
8499.6
5158.4
3020.9
2457.9
2270.2
2096.3
1931.5
1780.5
1634.0
1492.1
1350.2
1235.8
1139.7
1066.5
997.8
942.9
869.6
810.1
768.9
727.8
700.3
677.4
649.9
617.9
563.0
457.7
320.4
270.0
215.1
155.6
87.0
18.3
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