

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: P941978

Luminaire Tested: **GALN-SB5D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941978
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-SB5D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 38920 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

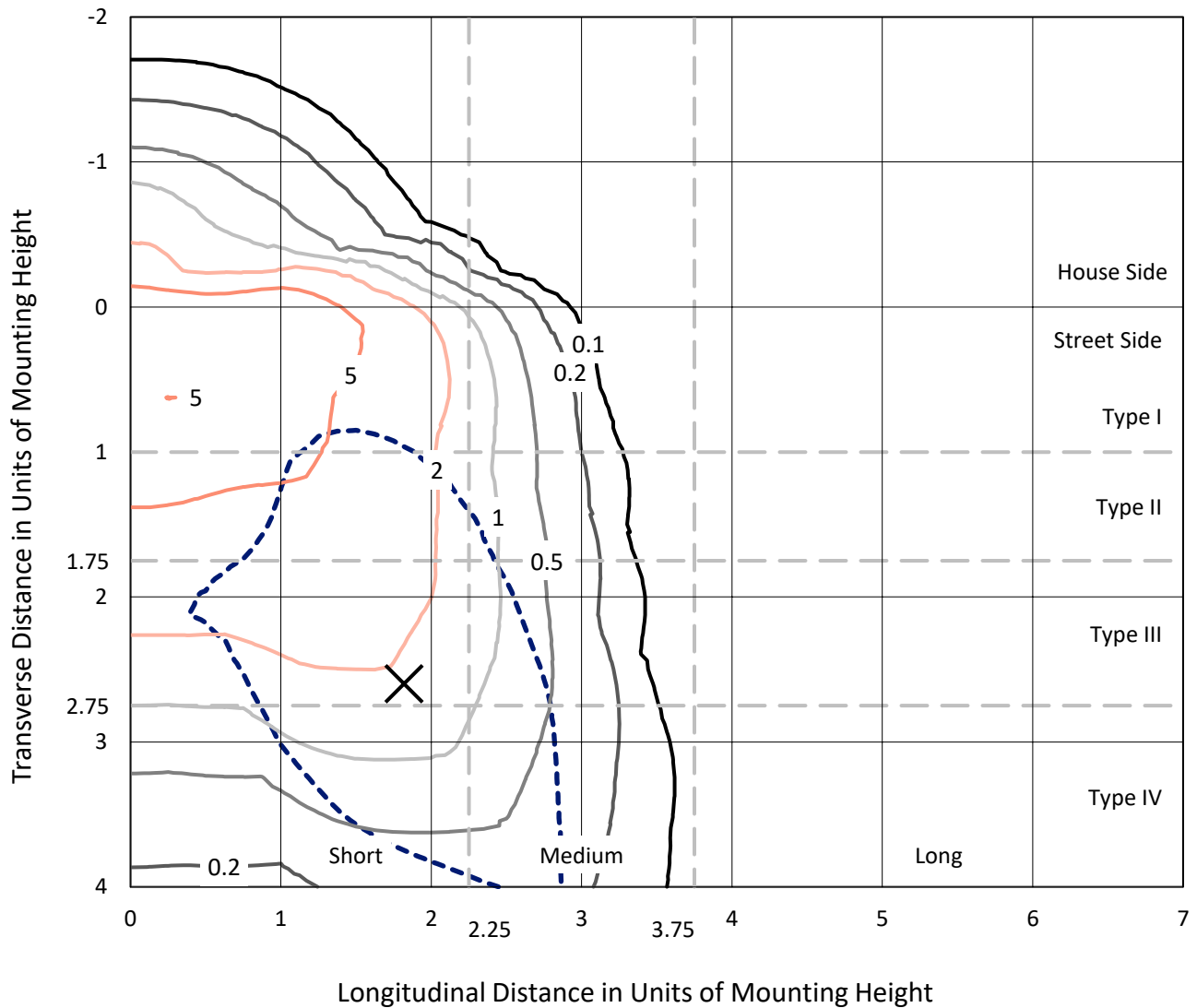
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

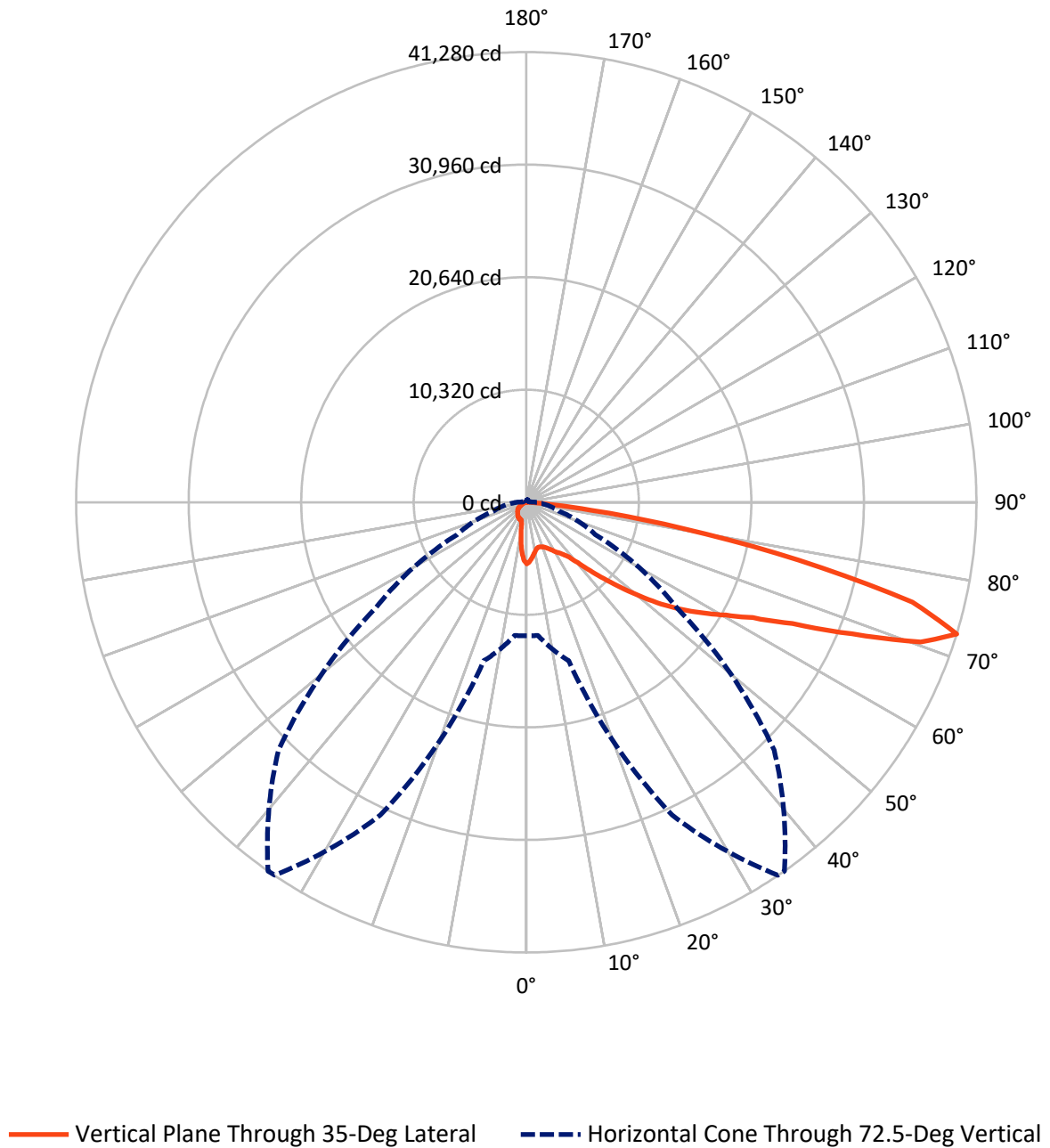
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	4380.3	0.0	4380.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	34539.7	0.0	34539.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	38920.0	0.0	38920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	1.2
10°-20°	1084.4	2.8
20°-30°	1761.5	4.5
30°-40°	2939.1	7.6
40°-50°	5560.8	14.3
50°-60°	8836.1	22.7
60°-70°	10930.8	28.1
70°-80°	6794.7	17.5
80°-90°	549.1	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°	38920.0	100.0
0°-180°	38920.0	100.0

Coefficient of Utilization



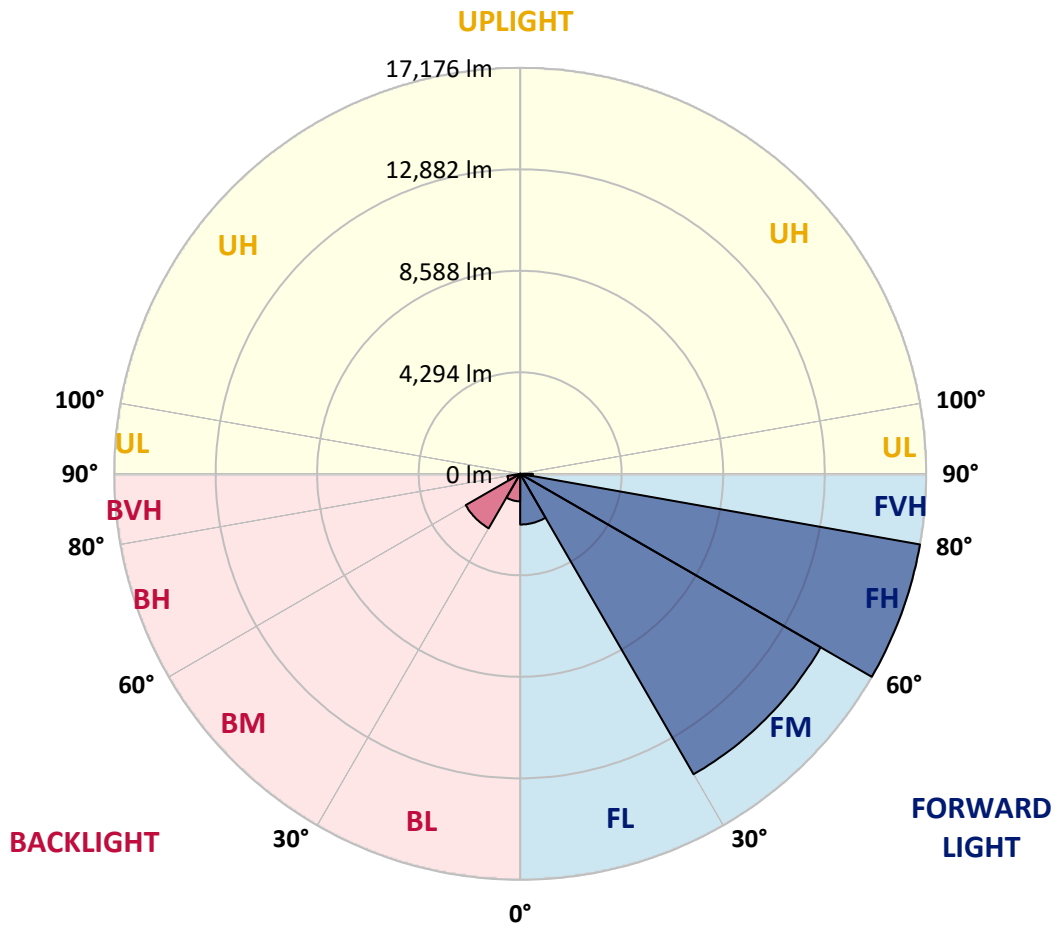
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2145.5	5.5			
FM (30°-60°)	14676.7	37.7			
FH (60°-80°)	17175.9	44.1			G5
FVH (80°-90°)	541.6	1.4			G4/750
BL (0°-30°)	1163.9	3.0	B3/2500		
BM (30°-60°)	2659.2	6.8	B3/5000		
BH (60°-80°)	549.7	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8
2.5°	5389.9	5435.5	5444.0	5458.3	5458.3	5475.4	5503.9	5543.9	5609.4	5643.7
5°	4967.8	5002.0	5044.8	5079.0	5144.6	5153.2	5264.4	5372.7	5523.9	5638.0
7.5°	4542.9	4582.8	4639.8	4722.5	4808.1	4833.8	5002.0	5184.5	5424.1	5638.0
10°	4243.4	4246.3	4297.6	4380.3	4517.2	4548.6	4753.9	5013.4	5312.9	5603.7
12.5°	4075.2	4095.2	4118.0	4180.7	4311.9	4331.8	4551.4	4856.6	5201.6	5583.8
15°	4075.2	4089.4	4103.7	4135.1	4240.6	4257.7	4451.6	4756.8	5144.6	5592.3
17.5°	4118.0	4140.8	4129.4	4166.4	4277.7	4289.1	4460.2	4728.2	5141.8	5646.5
20°	4220.6	4237.7	4214.9	4237.7	4349.0	4371.8	4548.6	4782.4	5190.2	5740.6
22.5°	4383.2	4391.7	4337.6	4354.7	4468.7	4497.3	4702.6	4936.4	5307.2	5891.8
25°	4588.5	4605.6	4522.9	4542.9	4651.2	4685.5	4922.2	5167.4	5492.5	6099.9
27.5°	4825.2	4833.8	4762.5	4759.6	4899.4	4947.8	5187.4	5452.6	5740.6	6362.3
30°	5096.1	5121.8	5053.3	5041.9	5218.8	5258.7	5495.4	5803.4	6105.7	6755.9
32.5°	5310.0	5330.0	5290.0	5318.6	5498.2	5529.6	5869.0	6299.6	6678.9	7314.8
35°	5618.0	5629.4	5538.1	5589.5	5794.8	5874.7	6379.4	6995.4	7400.4	8016.3
37.5°	6733.0	6733.0	6345.2	6091.4	6288.2	6359.5	7078.1	7870.9	8290.1	8957.4
40°	8275.9	8250.2	7682.7	7163.7	7138.0	7277.7	8073.4	8974.5	9439.4	10086.7
42.5°	9921.3	9881.4	9108.6	8595.3	8509.7	8558.2	9222.6	10334.8	10808.2	11464.1
45°	11381.4	11370.0	10662.8	9972.7	9818.7	9972.7	10657.1	11926.1	12265.5	12955.6
47.5°	12604.8	12604.8	12088.7	11638.1	11558.2	11649.5	12599.1	13691.4	13660.0	14544.1
50°	14013.6	14002.2	13511.7	13317.8	13400.5	13528.8	14834.9	15550.7	15103.0	16104.0
52.5°	15000.3	15068.8	14900.5	14869.2	15291.2	15513.7	17105.0	17370.2	16394.9	17584.1
55°	15781.7	15861.6	16055.5	16275.1	17087.8	17378.7	19303.7	19095.5	17475.7	18867.3
57.5°	16888.2	16774.1	17073.6	17507.1	18821.7	19172.5	21433.9	20723.9	18345.5	19908.2
60°	18231.4	18248.5	18299.8	18847.4	20552.7	21003.3	23532.9	22263.8	18904.4	20547.0
62.5°	19845.5	19871.2	19976.7	20818.0	22876.9	23301.9	25768.6	23524.3	19161.1	20367.4
65°	19734.3	19842.7	21020.4	23897.9	26410.3	26829.5	28378.0	24408.4	18773.2	18724.8
67.5°	17977.6	18154.4	20125.0	27576.7	31737.4	32205.1	31532.1	24582.3	17099.2	14561.2
70°	15673.4	15736.1	18105.9	30884.7	37905.8	38379.2	34355.3	22668.8	12975.6	8121.9
72.5°	12239.8	12254.1	15034.6	31651.9	41253.8	41279.5	32139.5	16828.3	6978.3	3119.8
75°	8743.5	8658.0	10069.6	25668.8	36294.6	36585.4	24094.7	7893.7	2666.4	1474.4
77.5°	4688.3	4782.4	5697.8	15222.8	25072.8	25569.0	13146.7	2275.7	1357.4	1003.8
80°	1448.7	1528.6	2335.6	6969.7	14201.8	14501.3	4873.7	1012.4	946.8	715.8
82.5°	456.3	473.4	1089.4	2928.8	5894.6	6031.5	1411.6	573.2	647.4	473.4
85°	131.2	134.0	484.8	1092.2	1457.3	1485.8	396.4	222.4	370.7	293.7
87.5°	14.3	45.6	182.5	182.5	128.3	125.5	42.8	48.5	105.5	37.1
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°
5640.8	0°	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8	5640.8
5666.5	2.5°	5652.2	5655.1	5618.0	5555.3	5486.8	5429.8	5358.5	5301.5	5261.5	5250.1
5717.8	5°	5692.1	5672.2	5566.7	5375.6	5147.5	4950.7	4731.1	4557.1	4443.1	4394.6
5772.0	7.5°	5752.0	5695.0	5464.0	5087.6	4651.2	4263.4	3869.9	3564.7	3370.8	3273.8
5823.3	10°	5803.4	5689.3	5292.9	4671.2	4003.9	3416.4	2886.0	2518.1	2312.8	2215.8
5883.2	12.5°	5851.8	5686.4	5070.5	4177.9	3273.8	2555.2	2061.8	1879.3	1822.3	1802.3
5980.2	15°	5943.1	5695.0	4791.0	3613.2	2546.6	1930.7	1751.0	1748.1	1759.5	1753.8
6128.5	17.5°	6068.6	5703.6	4474.4	3014.3	1964.9	1702.5	1694.0	1719.6	1736.7	1728.2
6313.8	20°	6231.1	5737.8	4137.9	2421.2	1688.3	1645.5	1665.4	1688.3	1702.5	1688.3
6561.9	22.5°	6459.3	5797.7	3770.0	1944.9	1599.8	1611.3	1628.4	1654.0	1668.3	1648.3
6878.5	25°	6738.7	5891.8	3407.9	1691.1	1557.1	1571.3	1597.0	1625.5	1642.6	1622.7
7277.7	27.5°	7100.9	6042.9	3074.2	1634.1	1514.3	1522.8	1559.9	1602.7	1625.5	1599.8
7845.2	30°	7625.6	6291.0	2786.2	1659.7	1488.6	1468.7	1520.0	1579.9	1605.5	1582.7
8618.1	32.5°	8321.5	6641.8	2609.4	1699.7	1477.2	1405.9	1454.4	1531.4	1574.2	1559.9
9627.6	35°	9234.1	7175.1	2540.9	1745.3	1468.7	1340.3	1374.6	1457.3	1531.4	1545.7
10899.5	37.5°	10340.5	7916.5	2560.9	1765.2	1443.0	1286.2	1303.3	1374.6	1471.5	1517.1
12331.1	40°	11598.2	8780.6	2675.0	1745.3	1414.5	1240.5	1243.4	1297.6	1383.1	1451.6
13871.0	42.5°	12895.7	9790.1	2886.0	1671.1	1388.8	1200.6	1192.0	1229.1	1286.2	1334.6
15408.1	45°	14130.6	10828.2	3094.2	1568.5	1357.4	1160.7	1140.7	1155.0	1166.4	1186.3
16905.3	47.5°	15208.5	11558.2	3034.3	1474.4	1314.7	1115.0	1080.8	1075.1	1040.9	1038.0
18242.8	50°	15952.8	11717.9	2694.9	1380.3	1251.9	1063.7	1009.5	975.3	915.4	886.9
19243.8	52.5°	16189.5	11087.7	2201.6	1286.2	1149.3	995.3	918.3	864.1	789.9	764.3
19819.8	55°	15875.8	9852.9	1759.5	1172.1	1006.7	904.0	818.5	747.2	687.3	655.9
19882.6	57.5°	15108.7	8281.6	1391.7	1038.0	855.5	801.3	715.8	644.5	593.2	561.8
19186.7	60°	13836.8	6576.2	1100.8	878.3	730.1	690.1	601.7	556.1	510.5	473.4
17390.1	62.5°	11906.2	4694.0	864.1	695.8	610.3	564.7	513.3	479.1	424.9	373.6
14159.1	65°	9291.1	2871.7	667.3	510.5	490.5	467.7	436.3	405.0	339.4	288.0
9236.9	67.5°	5860.4	1360.3	476.2	385.0	387.8	376.4	362.2	336.5	288.0	242.4
4137.9	70°	2580.9	658.8	313.7	293.7	288.0	288.0	299.4	290.9	245.3	202.5
1437.3	72.5°	878.3	353.6	233.8	222.4	208.2	205.3	251.0	242.4	196.8	156.8
715.8	75°	459.1	236.7	171.1	159.7	125.5	151.1	199.6	188.2	139.7	102.7
473.4	77.5°	299.4	168.3	116.9	102.7	71.3	99.8	148.3	131.2	82.7	51.3
310.8	80°	188.2	111.2	68.4	48.5	34.2	54.2	79.8	57.0	31.4	11.4
182.5	82.5°	99.8	57.0	25.7	17.1	14.3	17.1	20.0	14.3	5.7	0.0
94.1	85°	39.9	20.0	8.6	5.7	2.9	0.0	5.7	2.9	0.0	0.0
17.1	87.5°	14.3	2.9	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>
5640.8
5270.1
4411.7
3288.1
2218.7
1796.6
1751.0
1725.3
1685.4
1645.5
1619.8
1599.8
1579.9
1559.9
1545.7
1528.6
1474.4
1354.6
1197.7
1035.2
889.8
761.4
655.9
556.1
464.8
365.0
279.5
236.7
193.9
148.3
94.1
45.6
8.6
0.0
0.0
0.0
0.0

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