

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: P943468

Luminaire Tested: **GALN-SB7D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943468
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-SB7D-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 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: 38117 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

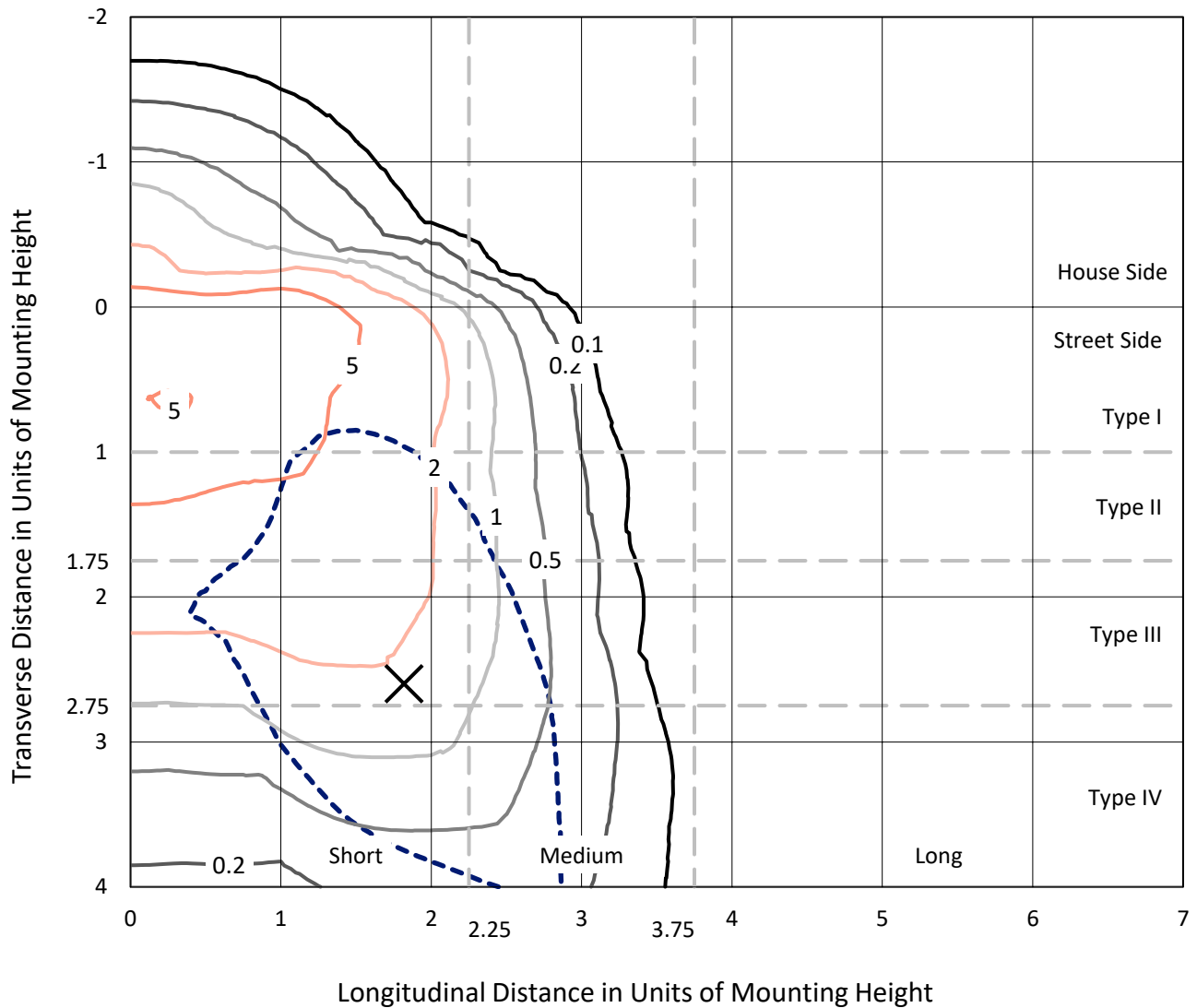
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

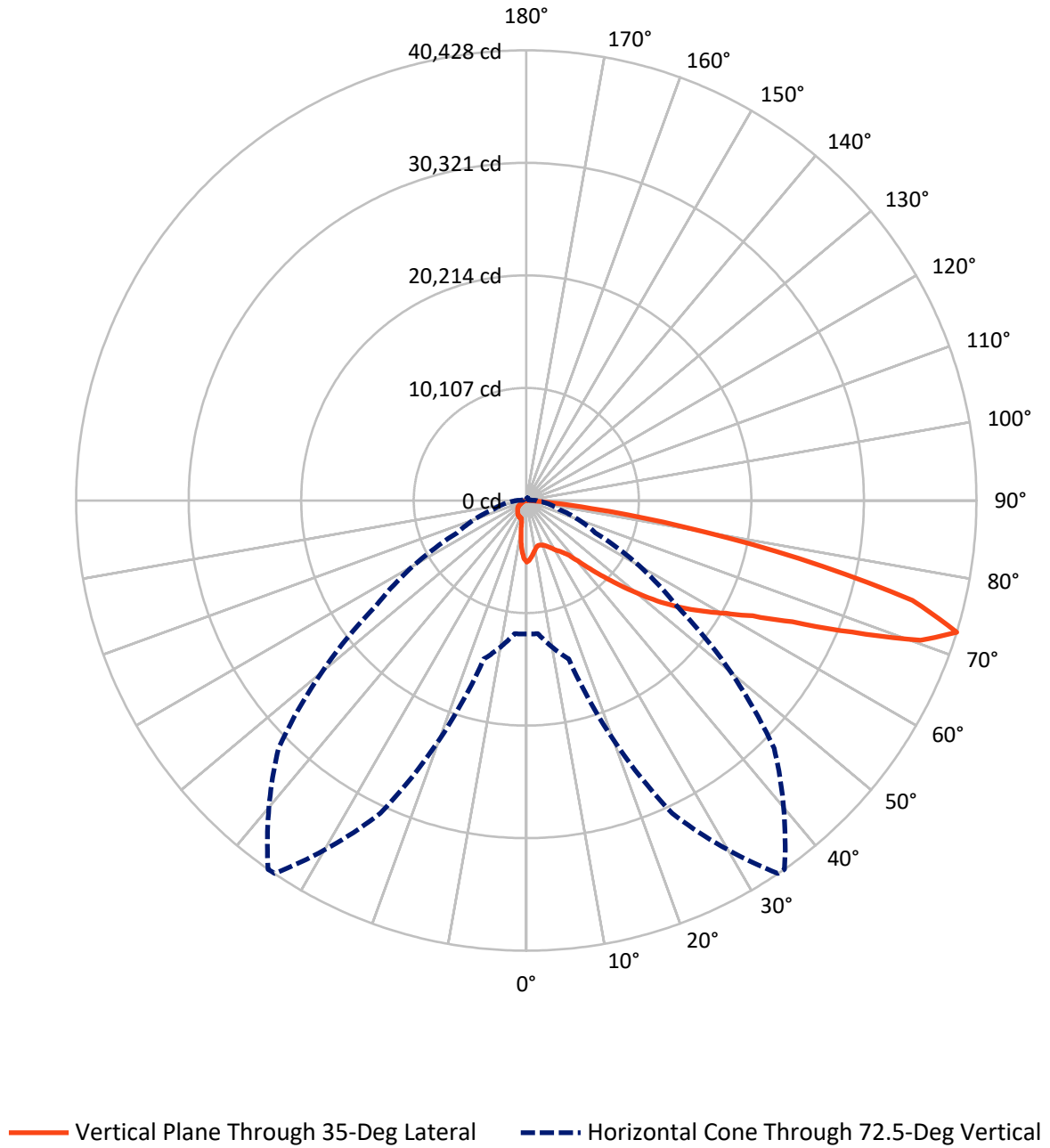
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4289.9	0.0	4289.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33827.1	0.0	33827.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	38117.0	0.0	38117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.0	1.2
10°-20°	1062.0	2.8
20°-30°	1725.2	4.5
30°-40°	2878.4	7.6
40°-50°	5446.1	14.3
50°-60°	8653.8	22.7
60°-70°	10705.3	28.1
70°-80°	6654.5	17.5
80°-90°	537.8	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°	38117.0	100.0
0°-180°	38117.0	100.0

Coefficient of Utilization



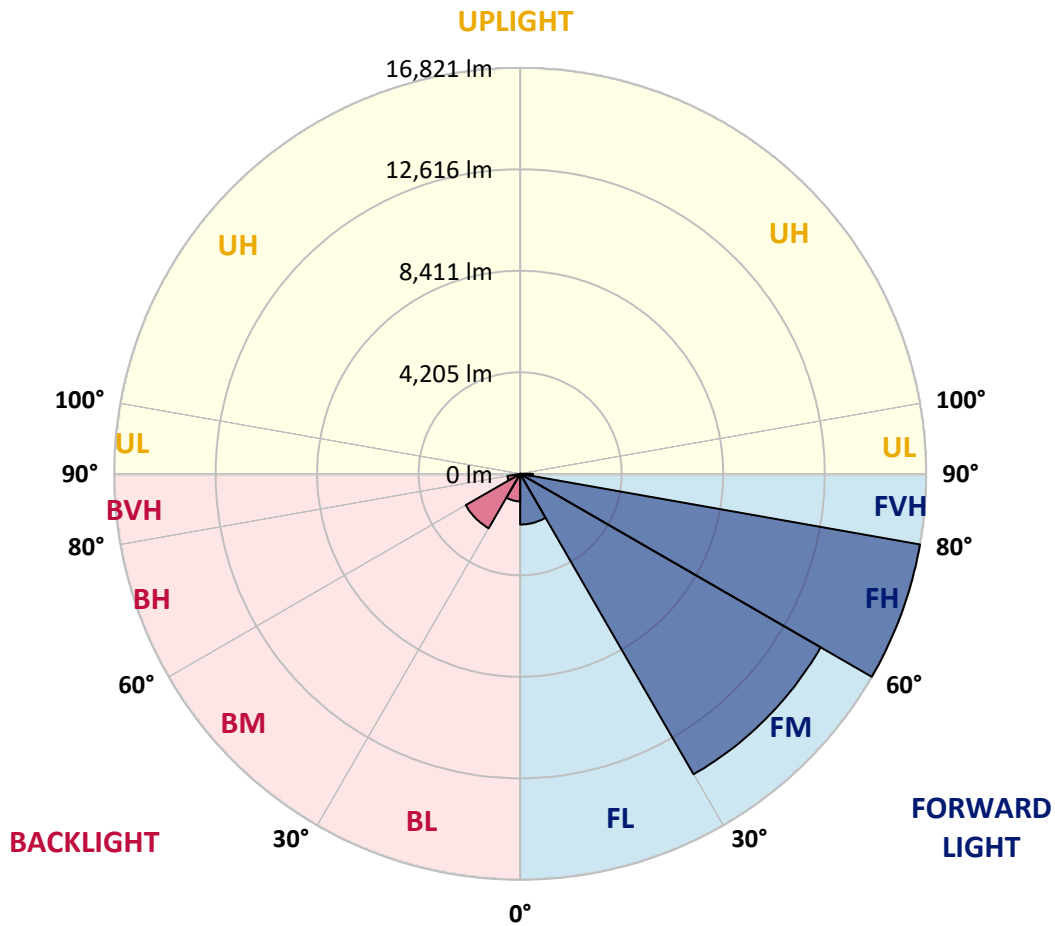
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.2	5.5			
FM (30°-60°)	14373.9	37.7			
FH (60°-80°)	16821.5	44.1			G5
FVH (80°-90°)	530.5	1.4			G4/750
BL (0°-30°)	1139.9	3.0	B3/2500		
BM (30°-60°)	2604.3	6.8	B3/5000		
BH (60°-80°)	538.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4
2.5°	5278.7	5323.3	5331.7	5345.7	5345.7	5362.4	5390.4	5429.5	5493.7	5527.2
5°	4865.3	4898.8	4940.7	4974.2	5038.5	5046.8	5155.8	5261.9	5409.9	5521.6
7.5°	4449.2	4488.3	4544.1	4625.1	4708.9	4734.0	4898.8	5077.6	5312.2	5521.6
10°	4155.9	4158.7	4209.0	4290.0	4424.0	4454.7	4655.8	4910.0	5203.2	5488.1
12.5°	3991.1	4010.7	4033.0	4094.4	4222.9	4242.5	4457.5	4756.4	5094.3	5468.6
15°	3991.1	4005.1	4019.0	4049.8	4153.1	4169.9	4359.8	4658.6	5038.5	5477.0
17.5°	4033.0	4055.3	4044.2	4080.5	4189.4	4200.6	4368.2	4630.7	5035.7	5530.0
20°	4133.5	4150.3	4128.0	4150.3	4259.2	4281.6	4454.7	4683.8	5083.1	5622.2
22.5°	4292.7	4301.1	4248.1	4264.8	4376.5	4404.5	4605.6	4834.6	5197.7	5770.2
25°	4493.8	4510.6	4429.6	4449.2	4555.3	4588.8	4820.6	5060.8	5379.2	5974.1
27.5°	4725.7	4734.0	4664.2	4661.4	4798.3	4845.7	5080.4	5340.1	5622.2	6231.0
30°	4991.0	5016.1	4949.1	4937.9	5111.1	5150.2	5382.0	5683.6	5979.7	6616.5
32.5°	5200.5	5220.0	5180.9	5208.8	5384.8	5415.5	5747.9	6169.6	6541.1	7163.9
35°	5502.1	5513.3	5423.9	5474.2	5675.2	5753.5	6247.8	6851.1	7247.7	7850.9
37.5°	6594.1	6594.1	6214.3	5965.7	6158.4	6228.3	6932.1	7708.5	8119.1	8772.6
40°	8105.1	8080.0	7524.2	7015.9	6990.7	7127.6	7906.8	8789.4	9244.6	9878.6
42.5°	9716.6	9677.5	8920.6	8417.9	8334.1	8381.6	9032.4	10121.6	10585.2	11227.6
45°	11146.6	11135.4	10442.8	9766.9	9616.1	9766.9	10437.2	11680.1	12012.4	12688.3
47.5°	12344.8	12344.8	11839.3	11398.0	11319.8	11409.2	12339.2	13408.9	13378.2	14244.0
50°	13724.5	13713.3	13232.9	13043.0	13124.0	13249.7	14528.9	15229.9	14791.4	15771.7
52.5°	14690.9	14757.9	14593.1	14562.4	14975.7	15193.6	16752.0	17011.8	16056.6	17221.3
55°	15456.1	15534.3	15724.2	15939.3	16735.3	17020.2	18905.4	18701.5	17115.1	18478.1
57.5°	16539.8	16428.1	16721.3	17145.8	18433.4	18776.9	20991.7	20296.3	17967.0	19497.5
60°	17855.3	17872.0	17922.3	18458.5	20128.7	20570.0	23047.3	21804.5	18514.4	20123.1
62.5°	19436.1	19461.2	19564.5	20388.4	22404.9	22821.1	25237.0	23038.9	18765.8	19947.2
65°	19327.1	19433.3	20586.7	23404.8	25865.4	26276.0	27792.5	23904.8	18385.9	18338.4
67.5°	17606.7	17779.8	19709.8	27007.7	31082.6	31540.6	30881.5	24075.1	16746.5	14260.7
70°	15350.0	15411.4	17732.4	30247.5	37123.7	37587.4	33646.5	22201.1	12707.9	7954.3
72.5°	11987.3	12001.3	14724.4	30998.8	40402.6	40427.8	31476.4	16481.1	6834.3	3055.5
75°	8563.1	8479.4	9861.9	25139.2	35545.7	35830.6	23597.5	7730.9	2611.4	1443.9
77.5°	4591.6	4683.8	5580.3	14908.7	24555.5	25041.5	12875.4	2228.8	1329.4	983.1
80°	1418.8	1497.0	2287.4	6825.9	13908.8	14202.1	4773.1	991.5	927.3	701.0
82.5°	446.9	463.6	1066.9	2868.3	5773.0	5907.1	1382.5	561.4	634.0	463.6
85°	128.5	131.3	474.8	1069.7	1427.2	1455.1	388.2	217.8	363.1	287.7
87.5°	14.0	44.7	178.7	178.7	125.7	122.9	41.9	47.5	103.3	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943468
 CATALOG NUMBER: GALN-SB7D-950-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5524.4	0°	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4	5524.4
5549.6	2.5°	5535.6	5538.4	5502.1	5440.6	5373.6	5317.8	5247.9	5192.1	5153.0	5141.8
5599.8	5°	5574.7	5555.2	5451.8	5264.7	5041.3	4848.5	4633.5	4463.1	4351.4	4303.9
5652.9	7.5°	5633.4	5577.5	5351.3	4982.6	4555.3	4175.4	3790.0	3491.2	3301.3	3206.3
5703.2	10°	5683.6	5571.9	5183.7	4574.8	3921.3	3345.9	2826.5	2466.2	2265.1	2170.1
5761.8	12.5°	5731.1	5569.1	4965.8	4091.7	3206.3	2502.5	2019.3	1840.5	1784.7	1765.1
5856.8	15°	5820.5	5577.5	4692.1	3538.7	2494.1	1890.8	1714.9	1712.1	1723.2	1717.7
6002.0	17.5°	5943.4	5585.9	4382.1	2952.1	1924.3	1667.4	1659.0	1684.1	1700.9	1692.5
6183.6	20°	6102.6	5619.4	4052.6	2371.2	1653.4	1611.5	1631.1	1653.4	1667.4	1653.4
6426.6	22.5°	6326.0	5678.0	3692.3	1904.8	1566.8	1578.0	1594.8	1619.9	1633.9	1614.3
6736.6	25°	6599.7	5770.2	3337.6	1656.2	1524.9	1538.9	1564.0	1592.0	1608.7	1589.2
7127.6	27.5°	6954.4	5918.2	3010.8	1600.4	1483.1	1491.4	1527.7	1569.6	1592.0	1566.8
7683.4	30°	7468.3	6161.2	2728.7	1625.5	1457.9	1438.4	1488.6	1547.3	1572.4	1550.1
8440.3	32.5°	8149.8	6504.8	2555.5	1664.6	1446.7	1376.9	1424.4	1499.8	1541.7	1527.7
9429.0	35°	9043.5	7027.0	2488.5	1709.3	1438.4	1312.7	1346.2	1427.2	1499.8	1513.8
10674.6	37.5°	10127.2	7753.2	2508.1	1728.8	1413.2	1259.6	1276.4	1346.2	1441.2	1485.8
12076.7	40°	11358.9	8599.5	2619.8	1709.3	1385.3	1214.9	1217.7	1270.8	1354.6	1421.6
13584.9	42.5°	12629.7	9588.2	2826.5	1636.7	1360.2	1175.8	1167.4	1203.8	1259.6	1307.1
15090.2	45°	13839.0	10604.8	3030.3	1536.1	1329.4	1136.7	1117.2	1131.1	1142.3	1161.9
16556.5	47.5°	14894.7	11319.8	2971.7	1443.9	1287.5	1092.0	1058.5	1052.9	1019.4	1016.6
17866.4	50°	15623.7	11476.2	2639.3	1351.8	1226.1	1041.8	988.7	955.2	896.5	868.6
18846.7	52.5°	15855.5	10858.9	2156.1	1259.6	1125.6	974.7	899.3	846.3	773.6	748.5
19410.9	55°	15548.3	9649.6	1723.2	1147.9	985.9	885.4	801.6	731.7	673.1	642.4
19472.4	57.5°	14797.0	8110.7	1363.0	1016.6	837.9	784.8	701.0	631.2	580.9	550.2
18790.9	60°	13551.3	6440.5	1078.1	860.2	715.0	675.9	589.3	544.6	499.9	463.6
17031.3	62.5°	11660.5	4597.2	846.3	681.5	597.7	553.0	502.7	469.2	416.1	365.9
13866.9	65°	9099.4	2812.5	653.5	499.9	480.4	458.0	427.3	396.6	332.4	282.1
9046.3	67.5°	5739.5	1332.2	466.4	377.0	379.8	368.7	354.7	329.6	282.1	237.4
4052.6	70°	2527.6	645.2	307.2	287.7	282.1	282.1	293.3	284.9	240.2	198.3
1407.6	72.5°	860.2	346.3	229.0	217.8	203.9	201.1	245.8	237.4	192.7	153.6
701.0	75°	449.7	231.8	167.6	156.4	122.9	148.0	195.5	184.3	136.9	100.5
463.6	77.5°	293.3	164.8	114.5	100.5	69.8	97.8	145.2	128.5	81.0	50.3
304.4	80°	184.3	108.9	67.0	47.5	33.5	53.1	78.2	55.9	30.7	11.2
178.7	82.5°	97.8	55.9	25.1	16.8	14.0	16.8	19.6	14.0	5.6	0.0
92.2	85°	39.1	19.6	8.4	5.6	2.8	0.0	5.6	2.8	0.0	0.0
16.8	87.5°	14.0	2.8	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>
5524.4
5161.3
4320.7
3220.3
2172.9
1759.6
1714.9
1689.7
1650.6
1611.5
1586.4
1566.8
1547.3
1527.7
1513.8
1497.0
1443.9
1326.6
1173.0
1013.8
871.4
745.7
642.4
544.6
455.2
357.5
273.7
231.8
189.9
145.2
92.2
44.7
8.4
0.0
0.0
0.0
0.0

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