

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: P943178

Luminaire Tested: **GALN-SB7C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943178
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-SB7C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 42663 lumens
Efficiency: N/A
Efficacy: 121.7 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

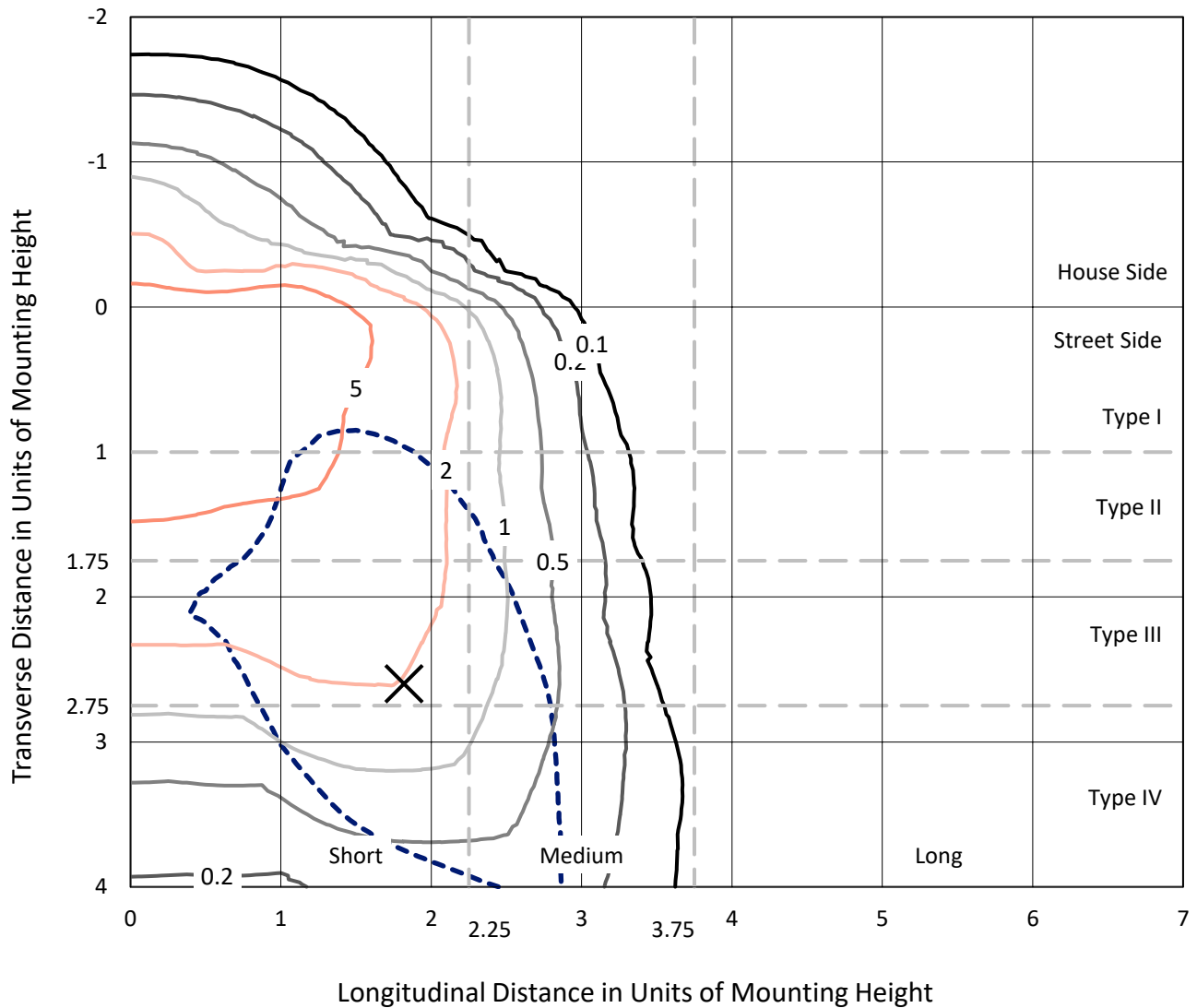
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

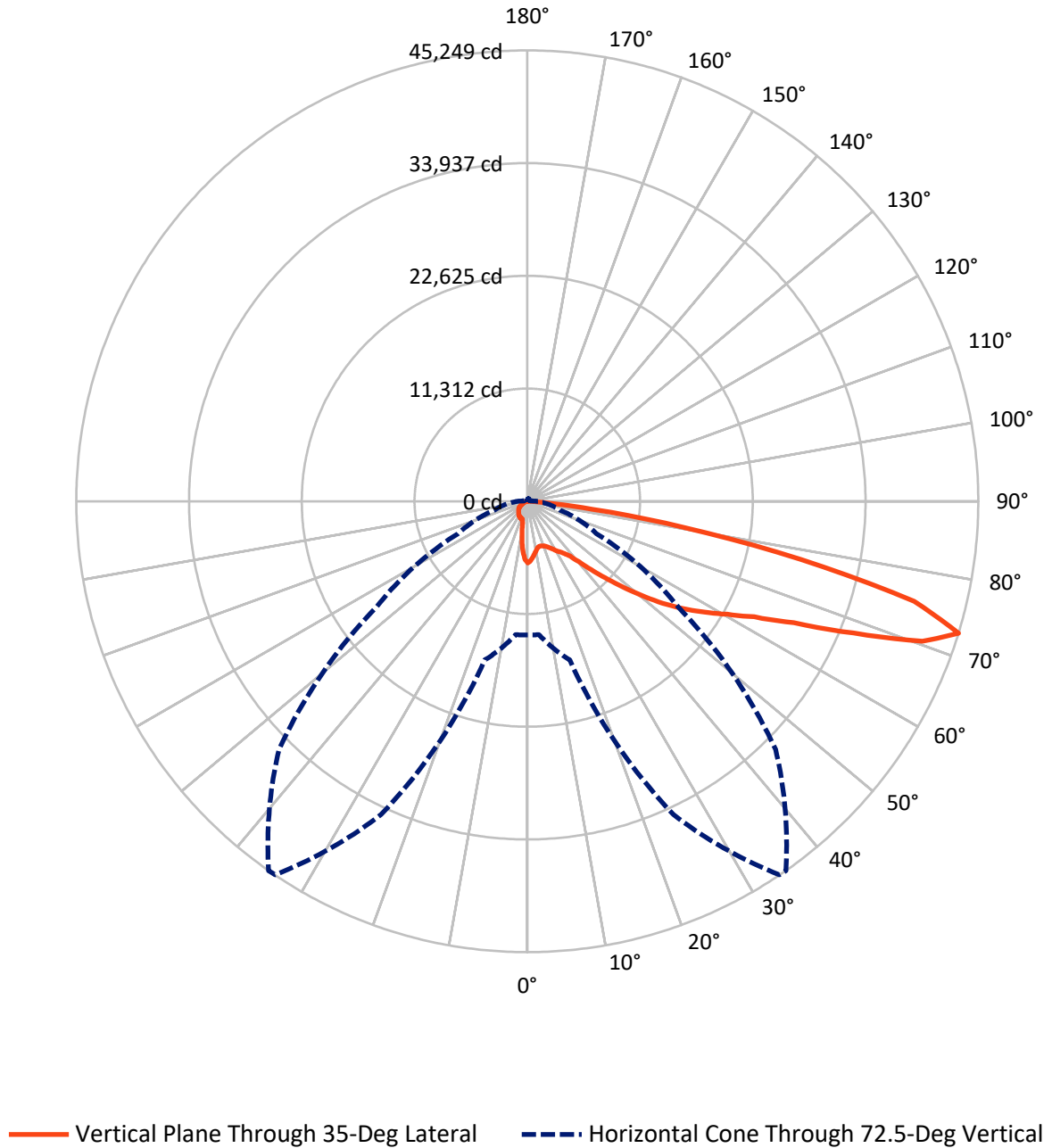
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4801.5	0.0	4801.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	37861.5	0.0	37861.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	42663.0	0.0	42663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.1	1.2
10°-20°	1188.6	2.8
20°-30°	1930.9	4.5
30°-40°	3221.7	7.6
40°-50°	6095.6	14.3
50°-60°	9685.9	22.7
60°-70°	11982.1	28.1
70°-80°	7448.1	17.5
80°-90°	601.9	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°	42663.0	100.0
0°-180°	42663.0	100.0

Coefficient of Utilization



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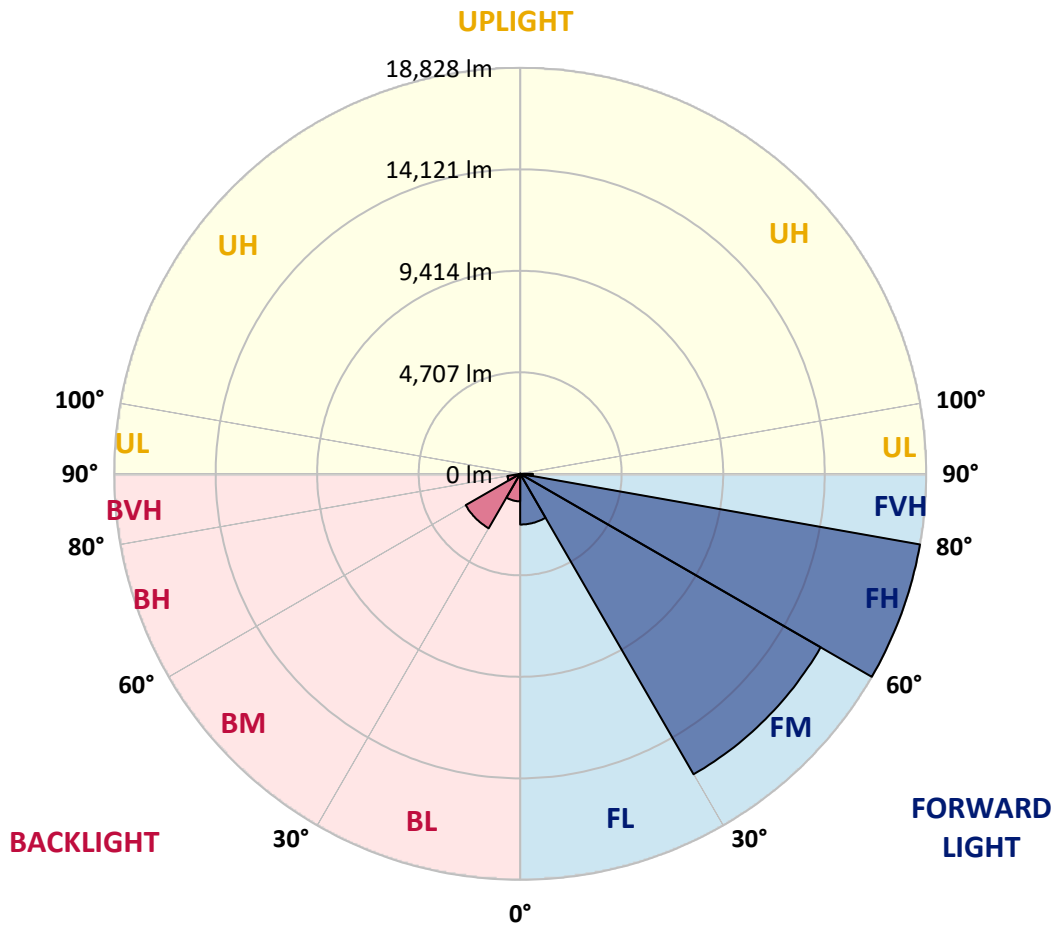
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2351.8	5.5			
FM (30°-60°)	16088.2	37.7			
FH (60°-80°)	18827.7	44.1			G5
FVH (80°-90°)	593.7	1.4			G4/750
BL (0°-30°)	1275.9	3.0	B3/2500		
BM (30°-60°)	2915.0	6.8	B3/5000		
BH (60°-80°)	602.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.2	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°	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3
2.5°	5908.2	5958.2	5967.6	5983.2	5983.2	6002.0	6033.2	6077.0	6148.9	6186.4
5°	5445.6	5483.1	5530.0	5567.5	5639.4	5648.7	5770.7	5889.5	6055.1	6180.2
7.5°	4979.8	5023.5	5086.1	5176.7	5270.5	5298.6	5483.1	5683.1	5945.7	6180.2
10°	4651.5	4654.7	4710.9	4801.6	4951.6	4986.0	5211.1	5495.6	5823.8	6142.7
12.5°	4467.1	4489.0	4514.0	4582.8	4726.6	4748.4	4989.2	5323.6	5701.9	6120.8
15°	4467.1	4482.7	4498.4	4532.8	4648.4	4667.2	4879.7	5214.2	5639.4	6130.2
17.5°	4514.0	4539.0	4526.5	4567.1	4689.1	4701.6	4889.1	5183.0	5636.2	6189.6
20°	4626.5	4645.3	4620.3	4645.3	4767.2	4792.2	4986.0	5242.4	5689.4	6292.7
22.5°	4804.7	4814.1	4754.7	4773.5	4898.5	4929.8	5154.8	5411.2	5817.6	6458.4
25°	5029.8	5048.5	4957.9	4979.8	5098.6	5136.1	5395.5	5664.4	6020.7	6686.6
27.5°	5289.3	5298.6	5220.5	5217.4	5370.5	5423.7	5686.3	5977.0	6292.7	6974.2
30°	5586.2	5614.4	5539.3	5526.8	5720.6	5764.4	6023.9	6361.5	6692.8	7405.6
32.5°	5820.7	5842.6	5798.8	5830.1	6027.0	6061.4	6433.4	6905.4	7321.2	8018.3
35°	6158.3	6170.8	6070.8	6127.0	6352.1	6439.6	6992.9	7668.2	8112.1	8787.3
37.5°	7380.6	7380.6	6955.4	6677.2	6892.9	6971.1	7758.8	8627.9	9087.4	9818.9
40°	9071.8	9043.6	8421.5	7852.6	7824.5	7977.6	8849.8	9837.6	10347.2	11056.8
42.5°	10875.5	10831.7	9984.6	9421.9	9328.1	9381.2	10109.6	11328.8	11847.7	12566.7
45°	12476.0	12463.5	11688.2	10931.7	10762.9	10931.7	11682.0	13073.1	13445.1	14201.6
47.5°	13817.1	13817.1	13251.3	12757.4	12669.8	12769.9	13810.8	15008.1	14973.7	15942.8
50°	15361.3	15348.8	14811.2	14598.6	14689.2	14829.9	16261.6	17046.3	16555.5	17652.7
52.5°	16442.9	16518.0	16333.5	16299.2	16761.8	17005.6	18750.0	19040.7	17971.6	19275.1
55°	17299.5	17387.0	17599.6	17840.3	18731.2	19050.1	21160.1	20931.9	19156.3	20681.9
57.5°	18512.4	18387.3	18715.6	19190.7	20631.8	21016.3	23495.3	22716.9	20109.8	21822.9
60°	19984.7	20003.5	20059.8	20660.0	22529.3	23023.3	25796.0	24405.0	20722.5	22523.1
62.5°	21754.1	21782.2	21897.9	22820.1	25077.1	25542.8	28246.9	25786.7	21003.8	22326.1
65°	21632.2	21751.0	23042.0	26196.2	28950.2	29409.7	31107.2	26755.7	20578.7	20525.6
67.5°	19706.5	19900.3	22060.4	30228.8	34789.7	35302.3	34564.6	26946.4	18743.7	15961.5
70°	17180.7	17249.5	19847.2	33855.0	41551.3	42070.2	37659.4	24848.9	14223.5	8903.0
72.5°	13416.9	13432.6	16480.5	34695.9	45221.2	45249.4	35230.4	18446.7	7649.4	3419.9
75°	9584.4	9490.6	11038.0	28137.4	39785.1	40103.9	26411.9	8652.9	2922.8	1616.2
77.5°	5139.2	5242.4	6245.8	16686.8	27484.1	28028.0	14411.0	2494.6	1488.0	1100.4
80°	1588.0	1675.6	2560.2	7640.0	15567.7	15895.9	5342.4	1109.7	1037.8	784.6
82.5°	500.2	518.9	1194.1	3210.4	6461.5	6611.6	1547.4	628.3	709.6	518.9
85°	143.8	146.9	531.4	1197.3	1597.4	1628.7	434.5	243.8	406.4	322.0
87.5°	15.6	50.0	200.1	200.1	140.7	137.5	46.9	53.1	115.7	40.6
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°
6183.3	0°	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3	6183.3
6211.4	2.5°	6195.8	6198.9	6158.3	6089.5	6014.5	5952.0	5873.8	5811.3	5767.5	5755.0
6267.7	5°	6239.6	6217.7	6102.0	5892.6	5642.5	5426.8	5186.1	4995.4	4870.4	4817.2
6327.1	7.5°	6305.2	6242.7	5989.5	5576.8	5098.6	4673.4	4242.0	3907.5	3695.0	3588.7
6383.4	10°	6361.5	6236.4	5801.9	5120.4	4389.0	3745.0	3163.5	2760.3	2535.2	2428.9
6449.0	12.5°	6414.6	6233.3	5558.1	4579.6	3588.7	2800.9	2260.1	2060.1	1997.5	1975.7
6555.3	15°	6514.7	6242.7	5251.7	3960.7	2791.6	2116.3	1919.4	1916.3	1928.8	1922.5
6717.9	17.5°	6652.2	6252.1	4904.8	3304.2	2153.8	1866.2	1856.9	1885.0	1903.8	1894.4
6921.0	20°	6830.4	6289.6	4535.9	2654.0	1850.6	1803.7	1825.6	1850.6	1866.2	1850.6
7193.0	22.5°	7080.5	6355.2	4132.6	2132.0	1753.7	1766.2	1785.0	1813.1	1828.7	1806.8
7540.0	25°	7386.8	6458.4	3735.6	1853.7	1706.8	1722.4	1750.6	1781.8	1800.6	1778.7
7977.6	27.5°	7783.8	6624.1	3369.9	1791.2	1659.9	1669.3	1709.9	1756.8	1781.8	1753.7
8599.7	30°	8359.0	6896.0	3054.1	1819.4	1631.8	1609.9	1666.2	1731.8	1760.0	1734.9
9446.9	32.5°	9121.8	7280.5	2860.3	1863.1	1619.3	1541.1	1594.3	1678.7	1725.6	1709.9
10553.5	35°	10122.1	7865.1	2785.3	1913.1	1609.9	1469.2	1506.7	1597.4	1678.7	1694.3
11947.7	37.5°	11335.0	8677.9	2807.2	1935.0	1581.8	1409.8	1428.6	1506.7	1613.0	1663.1
13517.0	40°	12713.6	9625.1	2932.2	1913.1	1550.5	1359.8	1363.0	1422.3	1516.1	1591.2
15205.0	42.5°	14135.9	10731.7	3163.5	1831.9	1522.4	1316.1	1306.7	1347.3	1409.8	1463.0
16890.0	45°	15489.5	11869.6	3391.7	1719.3	1488.0	1272.3	1250.4	1266.0	1278.5	1300.4
18531.1	47.5°	16671.1	12669.8	3326.1	1616.2	1441.1	1222.3	1184.8	1178.5	1141.0	1137.9
19997.3	50°	17487.0	12844.9	2954.1	1513.0	1372.3	1166.0	1106.6	1069.1	1003.5	972.2
21094.5	52.5°	17746.5	12154.0	2413.3	1409.8	1259.8	1091.0	1006.6	947.2	865.9	837.8
21725.9	55°	17402.6	10800.5	1928.8	1284.8	1103.5	991.0	897.2	819.0	753.4	719.0
21794.7	57.5°	16561.7	9078.0	1525.5	1137.9	937.8	878.4	784.6	706.5	650.2	615.8
21032.0	60°	15167.5	7208.6	1206.6	962.8	800.3	756.5	659.6	609.6	559.6	518.9
19062.6	62.5°	13051.2	5145.5	947.2	762.8	669.0	619.0	562.7	525.2	465.8	409.5
15520.8	65°	10184.6	3147.9	731.5	559.6	537.7	512.7	478.3	443.9	372.0	315.7
10125.2	67.5°	6424.0	1491.1	522.0	422.0	425.1	412.6	397.0	368.9	315.7	265.7
4535.9	70°	2829.1	722.1	343.9	322.0	315.7	315.7	328.2	318.9	268.8	221.9
1575.5	72.5°	962.8	387.6	256.3	243.8	228.2	225.1	275.1	265.7	215.7	171.9
784.6	75°	503.3	259.5	187.6	175.1	137.5	165.7	218.8	206.3	153.2	112.5
518.9	77.5°	328.2	184.4	128.2	112.5	78.2	109.4	162.6	143.8	90.7	56.3
340.7	80°	206.3	121.9	75.0	53.1	37.5	59.4	87.5	62.5	34.4	12.5
200.1	82.5°	109.4	62.5	28.1	18.8	15.6	18.8	21.9	15.6	6.3	0.0
103.2	85°	43.8	21.9	9.4	6.3	3.1	0.0	6.3	3.1	0.0	0.0
18.8	87.5°	15.6	3.1	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>
6183.3
5776.9
4836.0
3604.3
2432.1
1969.4
1919.4
1891.3
1847.5
1803.7
1775.6
1753.7
1731.8
1709.9
1694.3
1675.6
1616.2
1484.9
1312.9
1134.8
975.3
834.7
719.0
609.6
509.5
400.1
306.4
259.5
212.6
162.6
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