

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: P943844

Luminaire Tested: **GALN-SB8C-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44221 lumens
Efficiency: N/A
Efficacy: 110.6 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

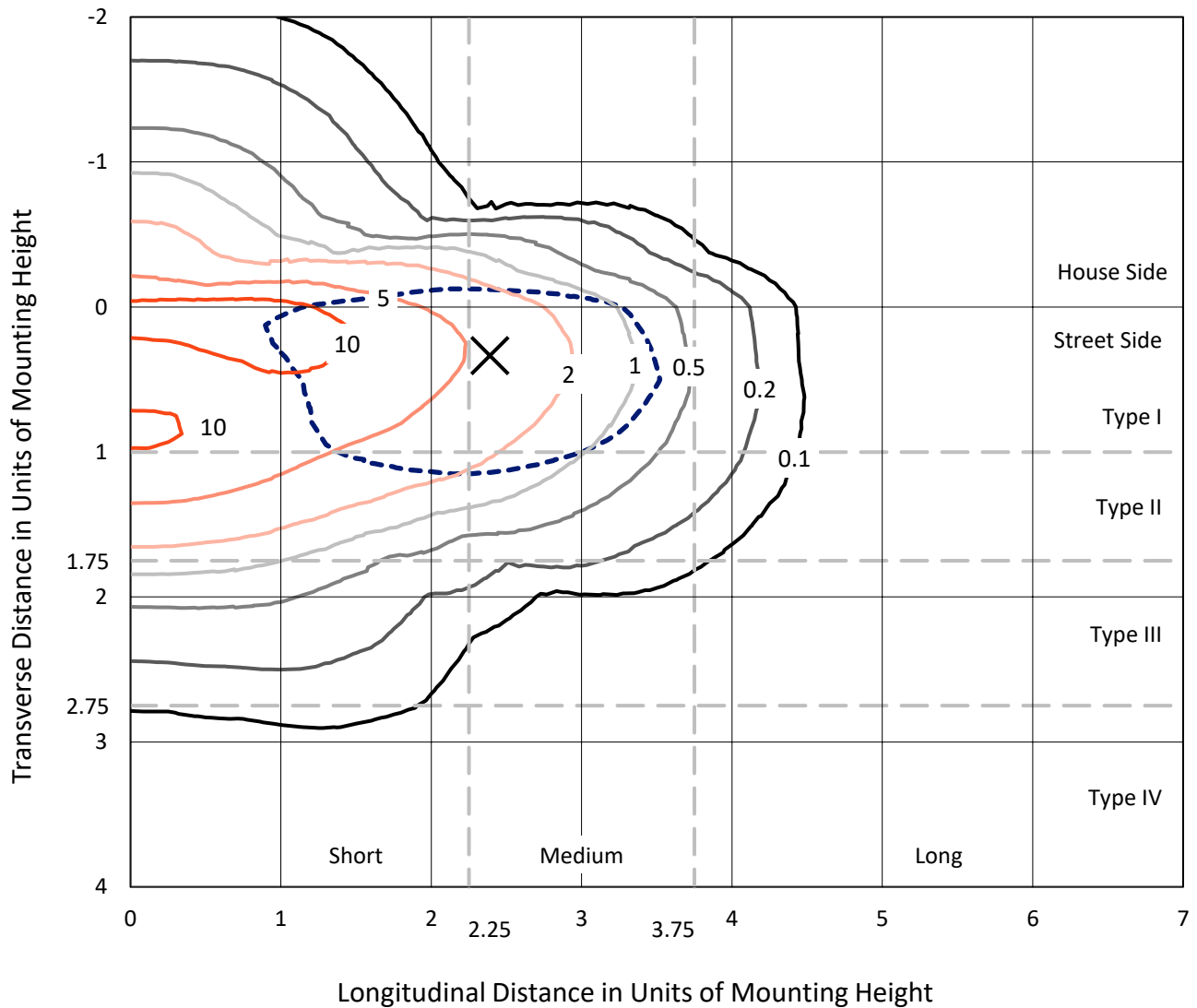
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

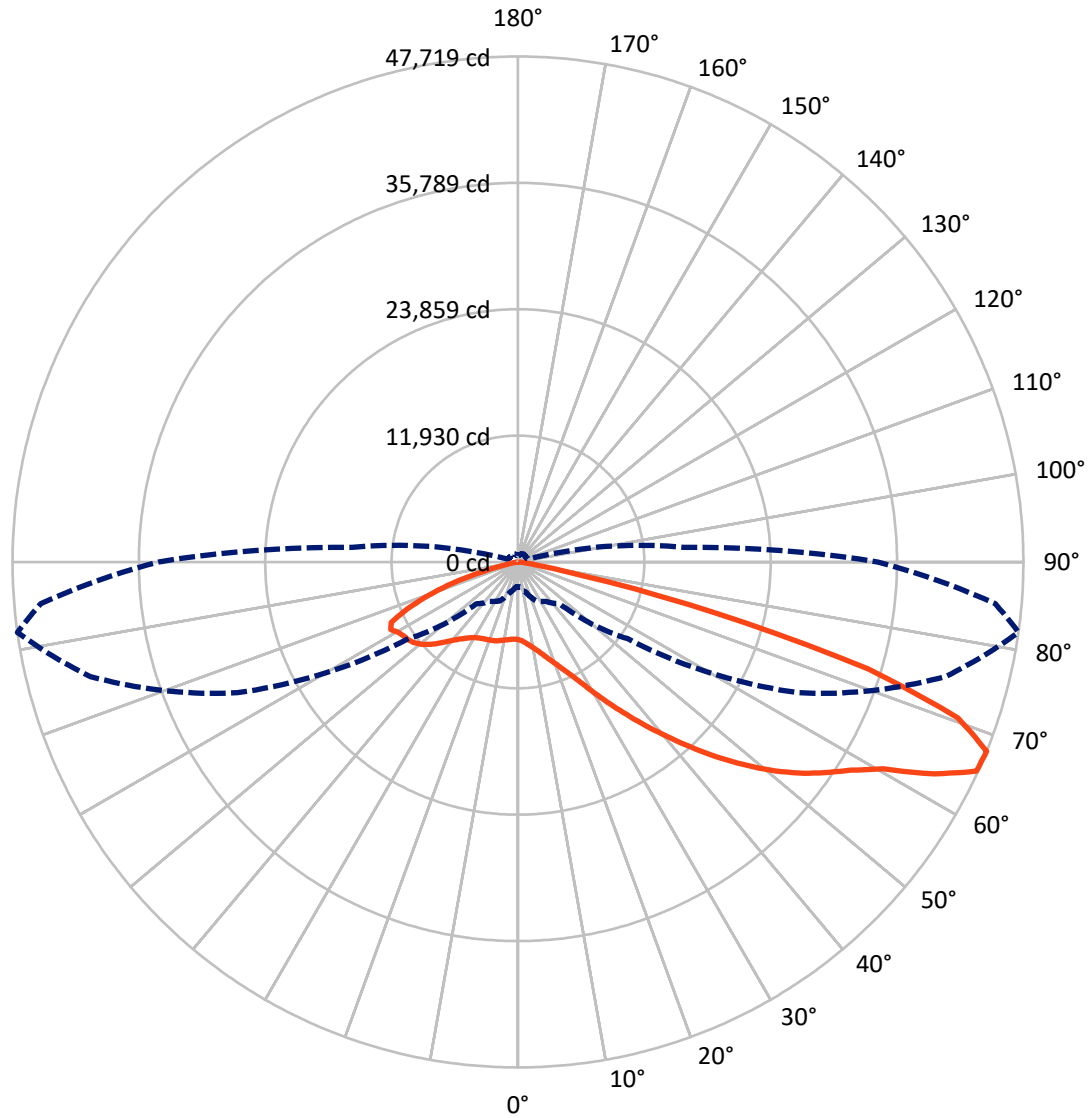
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8010.2	0.0	8010.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36210.8	0.0	36210.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	44221.0	0.0	44221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.7	1.5
10°-20°	1696.1	3.8
20°-30°	2716.6	6.1
30°-40°	4803.7	10.9
40°-50°	8416.6	19.0
50°-60°	11225.3	25.4
60°-70°	10450.2	23.6
70°-80°	4010.8	9.1
80°-90°	249.1	0.6
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°	44221.0	100.0
0°-180°	44221.0	100.0

Coefficient of Utilization



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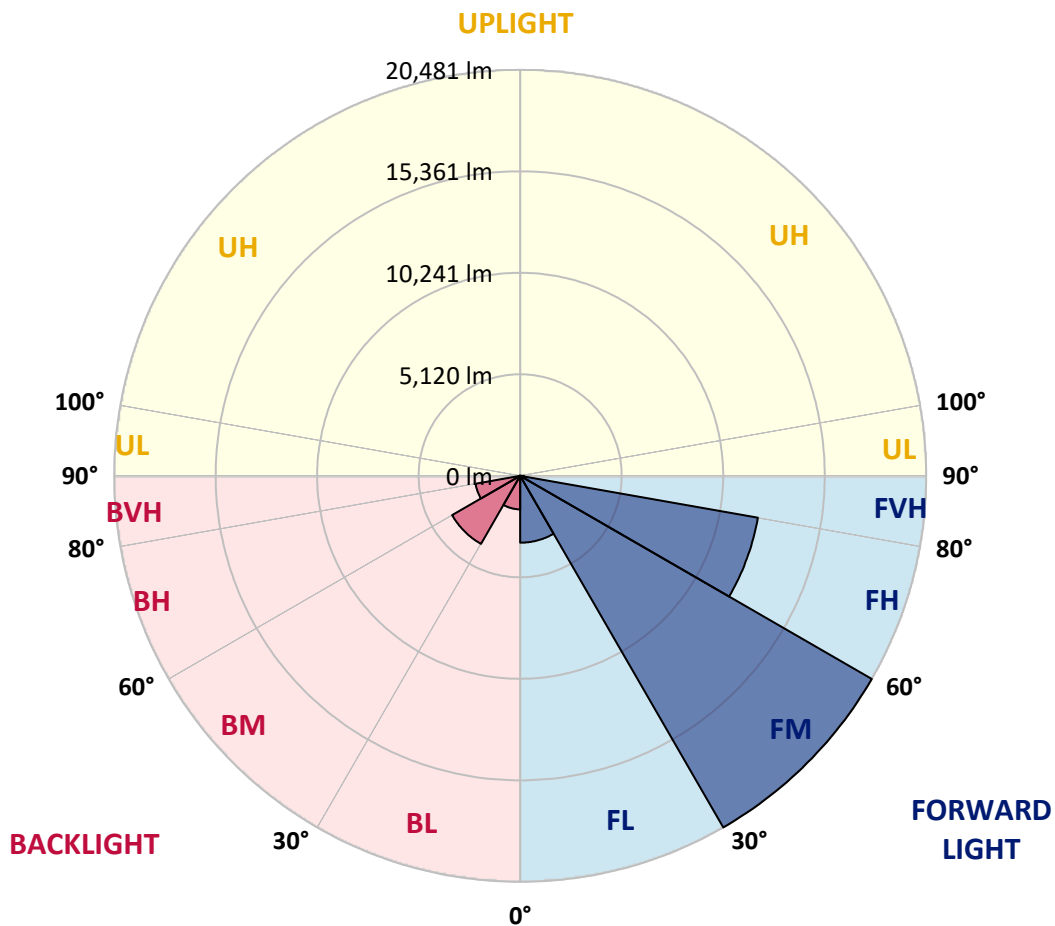
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3373.6	7.6			
FM (30°-60°)	20481.4	46.3			
FH (60°-80°)	12174.7	27.5			G5
FVH (80°-90°)	181.1	0.4			G2/225
BL (0°-30°)	1691.7	3.8	B3/2500		
BM (30°-60°)	3964.2	9.0	B3/5000		
BH (60°-80°)	2286.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	68.0	0.2			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9
2.5°	7743.0	7787.6	7762.1	7749.4	7727.1	7695.2	7669.8	7590.2	7507.4	7453.3
5°	7899.0	7943.6	7940.4	7953.1	7969.1	7978.6	7972.2	7883.1	7765.3	7673.0
7.5°	7765.3	7816.2	7857.6	7921.3	8032.7	8150.5	8207.8	8188.7	8067.7	7940.4
10°	7386.4	7440.5	7539.2	7688.9	7924.5	8179.2	8392.5	8491.2	8414.8	8274.7
12.5°	6692.3	6746.5	6940.7	7265.4	7660.2	8102.8	8510.3	8774.6	8793.7	8653.6
15°	5912.3	5966.4	6173.4	6580.9	7182.7	7892.6	8574.0	9073.8	9242.6	9121.6
17.5°	5428.4	5476.1	5632.1	5960.1	6587.3	7472.4	8551.7	9392.2	9777.4	9681.9
20°	5281.9	5323.3	5396.5	5625.8	6147.9	7036.2	8405.2	9691.5	10353.7	10299.6
22.5°	5437.9	5476.1	5498.4	5600.3	5928.2	6749.7	8220.6	9997.1	11022.3	11028.7
25°	5797.7	5835.9	5810.4	5874.1	6017.4	6660.5	8150.5	10356.9	11862.8	11932.9
27.5°	6389.9	6393.1	6332.6	6329.4	6351.7	6794.2	8223.8	10742.1	12923.0	13053.6
30°	7577.4	7529.7	7297.3	7045.7	6931.1	7195.4	8427.5	11197.4	14174.3	14406.7
32.5°	9408.1	9338.1	8911.5	8309.7	7704.8	7841.7	8793.7	11716.4	15536.9	15957.2
35°	11394.8	11375.7	10930.0	10035.3	8978.3	8761.8	9389.0	12397.7	17023.8	17692.4
37.5°	13241.4	13231.9	12977.2	11923.3	10637.1	10044.9	10344.2	13289.2	18615.7	19583.6
40°	14928.8	14957.5	14702.8	13760.4	12464.6	11690.9	11643.2	14390.8	20385.9	21643.5
42.5°	16387.0	16418.9	16161.0	15463.7	14269.8	13512.0	13238.2	15740.7	22114.7	23856.2
45°	17377.2	17574.6	17536.4	16979.2	16122.8	15336.4	15154.9	17434.5	24085.4	26202.7
47.5°	17657.4	17838.8	18125.4	18201.8	17679.6	16906.0	17122.5	19475.3	26078.5	28552.3
50°	16966.5	17135.2	17730.6	18523.3	18886.3	18647.5	19035.9	21662.6	28119.3	30895.6
52.5°	15603.8	15775.7	16527.1	17781.5	19262.0	20013.4	20955.8	23818.0	30096.5	33114.7
55°	13633.0	13814.5	14779.2	16199.2	18545.6	20576.9	22557.2	25970.3	31908.0	35110.9
57.5°	10952.3	11086.0	12088.9	14075.6	16743.6	20016.5	23738.4	28319.9	33614.6	37072.2
60°	7138.1	7255.9	8421.2	10637.1	13757.2	18144.5	23974.0	30940.2	35881.4	39622.4
62.5°	4747.0	4826.6	5517.5	7144.4	9688.3	14550.0	22595.4	33031.9	39205.3	44060.6
65°	3257.0	3336.6	4027.5	5160.9	6259.4	9624.6	18631.6	32754.9	42217.2	47585.1
67.5°	2324.2	2391.0	2976.9	4046.6	4530.5	5590.8	12630.1	29214.5	41784.2	47718.8
70°	1665.1	1703.3	2187.3	3152.0	3600.9	3358.9	7023.5	22343.9	36585.0	44063.8
72.5°	1165.3	1178.0	1518.7	2400.6	2900.4	2451.5	3343.0	14897.0	27670.4	34585.6
75°	789.6	805.5	1022.0	1760.6	2327.4	1872.1	1770.2	7988.2	16243.7	19144.2
77.5°	483.9	490.3	659.0	1203.5	1741.5	1426.3	1139.8	3384.4	6284.8	6170.2
80°	273.8	273.8	420.3	748.2	1187.6	920.1	799.1	1439.1	1989.9	1747.9
82.5°	152.8	156.0	305.6	464.8	786.4	544.4	439.4	665.4	859.6	760.9
85°	63.7	70.0	187.8	219.7	375.7	270.6	178.3	280.2	318.4	283.4
87.5°	6.4	9.6	57.3	41.4	44.6	54.1	25.5	54.1	44.6	44.6
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°
7325.9	0°	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9	7325.9
7434.2	2.5°	7373.7	7325.9	7204.9	7064.9	6880.2	6791.0	6670.1	6587.3	6517.2	6523.6
7618.8	5°	7517.0	7396.0	7125.3	6787.9	6367.6	6068.3	5749.9	5530.3	5352.0	5313.8
7873.5	7.5°	7714.3	7523.3	7048.9	6440.8	5730.8	5192.8	4712.0	4403.2	4183.5	4113.5
8182.4	10°	7969.1	7692.1	6950.2	6004.6	4982.6	4298.1	3782.4	3540.4	3390.7	3339.8
8545.3	12.5°	8265.1	7886.3	6819.7	5473.0	4212.2	3553.1	3225.2	3104.2	3056.4	3040.5
8991.1	15°	8637.6	8128.2	6622.3	4842.6	3559.5	3097.8	2957.7	2941.8	2948.2	2941.8
9525.9	17.5°	9080.2	8392.5	6300.7	4193.1	3120.1	2865.4	2814.5	2827.2	2843.1	2839.9
10124.5	20°	9564.1	8653.6	5890.0	3616.8	2820.8	2699.9	2671.2	2683.9	2696.7	2690.3
10815.4	22.5°	10114.9	8933.7	5434.7	3167.9	2620.3	2547.0	2515.2	2518.4	2518.4	2505.7
11690.9	25°	10774.0	9242.6	4957.2	2849.5	2467.4	2410.1	2371.9	2359.2	2340.1	2301.9
12754.3	27.5°	11560.4	9570.5	4498.7	2626.6	2346.5	2292.3	2247.8	2215.9	2168.2	2104.5
14031.0	30°	12445.5	9968.5	4110.3	2486.5	2250.9	2196.8	2145.9	2098.1	2028.1	1948.5
15498.7	32.5°	13486.6	10395.1	3826.9	2394.2	2165.0	2107.7	2047.2	1989.9	1913.5	1833.9
17147.9	35°	14728.3	10910.9	3661.4	2330.5	2098.1	2021.7	1954.9	1891.2	1833.9	1763.8
18940.4	37.5°	16075.0	11458.5	3610.4	2298.7	2053.6	1935.8	1859.3	1814.8	1808.4	1767.0
20879.4	40°	17549.1	12108.0	3648.6	2279.6	2005.8	1853.0	1770.2	1760.6	1776.6	1703.3
22952.0	42.5°	19109.2	12878.5	3712.3	2257.3	1938.9	1770.2	1690.6	1690.6	1677.9	1576.0
25142.5	45°	20796.6	13766.8	3776.0	2203.2	1859.3	1687.4	1626.9	1604.6	1550.5	1451.8
27345.7	47.5°	22496.7	14670.9	3823.7	2104.5	1763.8	1617.4	1563.2	1512.3	1432.7	1343.6
29507.5	50°	24110.9	15482.8	3772.8	1958.0	1655.6	1550.5	1493.2	1423.2	1337.2	1276.7
31554.6	52.5°	25553.2	16186.4	3556.3	1786.1	1541.0	1480.5	1429.5	1356.3	1286.3	1222.6
33401.2	55°	26807.6	16756.3	3174.2	1623.7	1439.1	1420.0	1369.0	1276.7	1181.2	1127.1
35231.9	57.5°	28011.1	17189.3	2696.7	1490.0	1346.7	1353.1	1276.7	1193.9	1104.8	1047.5
37699.4	60°	29612.5	17768.8	2212.7	1365.9	1248.0	1267.2	1184.4	1123.9	1012.4	939.2
41930.6	62.5°	32172.3	18669.8	1757.5	1213.0	1133.4	1139.8	1104.8	1031.6	897.8	811.9
45066.7	65°	34203.6	18338.7	1385.0	1047.5	1002.9	1012.4	1012.4	932.9	789.6	690.9
45235.4	67.5°	33974.3	15702.5	1104.8	885.1	878.7	885.1	907.4	840.5	700.4	620.8
41790.6	70°	31296.8	12490.0	885.1	735.5	764.1	748.2	811.9	767.3	630.4	550.8
32398.3	72.5°	25537.3	8997.4	675.0	608.1	585.8	611.3	732.3	690.9	525.3	436.2
17160.7	75°	14922.5	4801.2	503.0	480.8	423.4	509.4	649.5	589.0	401.2	321.6
5259.6	77.5°	4858.5	1674.7	369.3	353.4	315.2	410.7	554.0	496.7	327.9	254.7
1541.0	80°	1302.2	506.2	251.5	232.4	203.8	305.6	439.4	394.8	235.6	165.6
662.2	82.5°	522.1	213.3	146.5	130.5	111.4	210.1	347.0	318.4	175.1	105.1
206.9	85°	168.7	70.0	54.1	41.4	50.9	130.5	206.9	216.5	124.2	54.1
31.8	87.5°	22.3	9.6	9.6	12.7	9.6	22.3	63.7	60.5	35.0	6.4
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°
7325.9
6459.9
5227.8
4043.4
3301.6
3031.0
2938.6
2833.6
2687.1
2499.3
2295.5
2098.1
1942.1
1837.1
1757.5
1763.8
1706.5
1576.0
1448.6
1340.4
1267.2
1216.2
1120.7
1041.1
929.7
805.5
681.3
608.1
541.2
426.6
312.0
245.2
162.4
105.1
41.4
0.0
0.0

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