

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: P942654

Luminaire Tested: **GALN-SB6D-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942654
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-SB6D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA 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: 45061 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

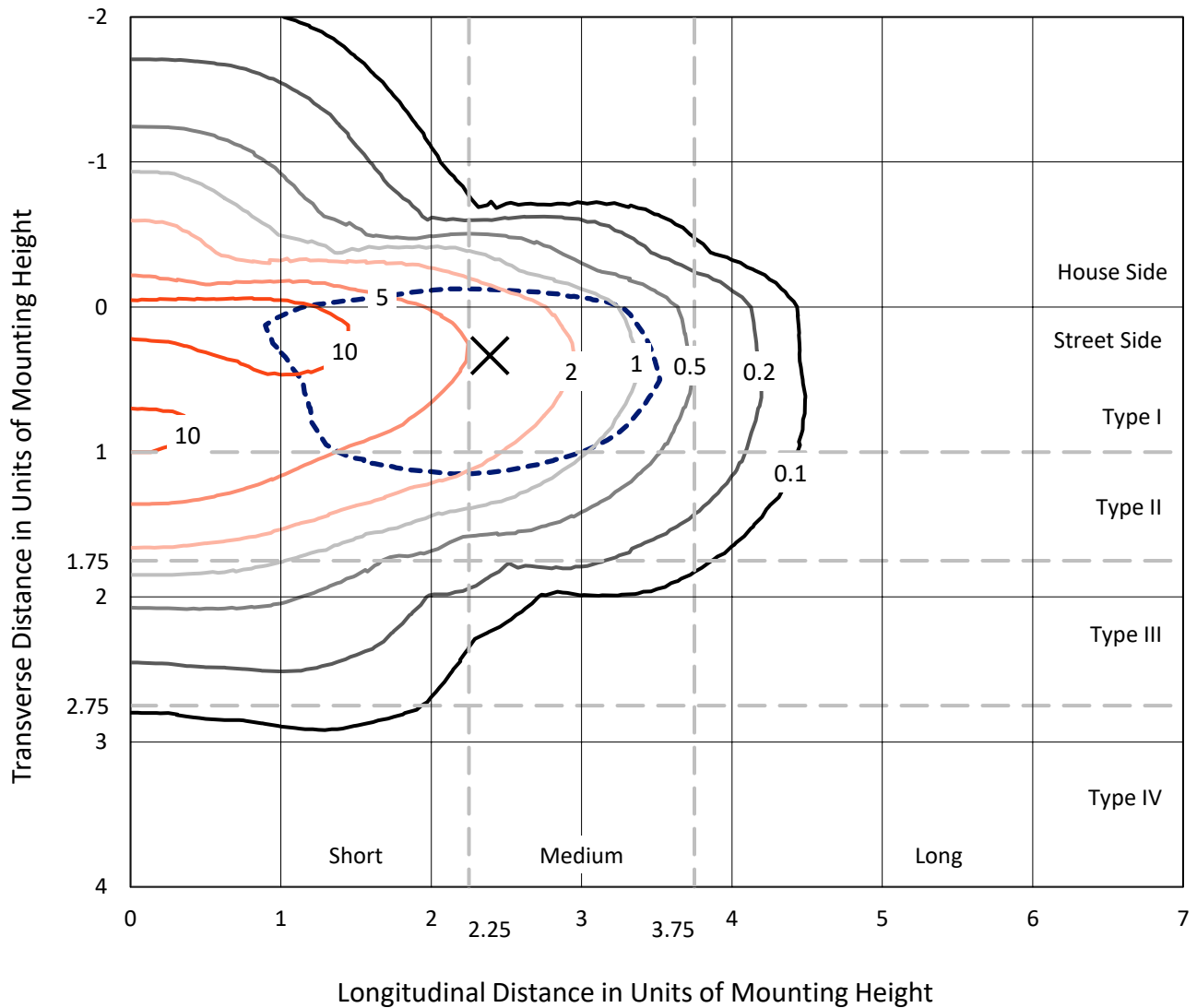
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

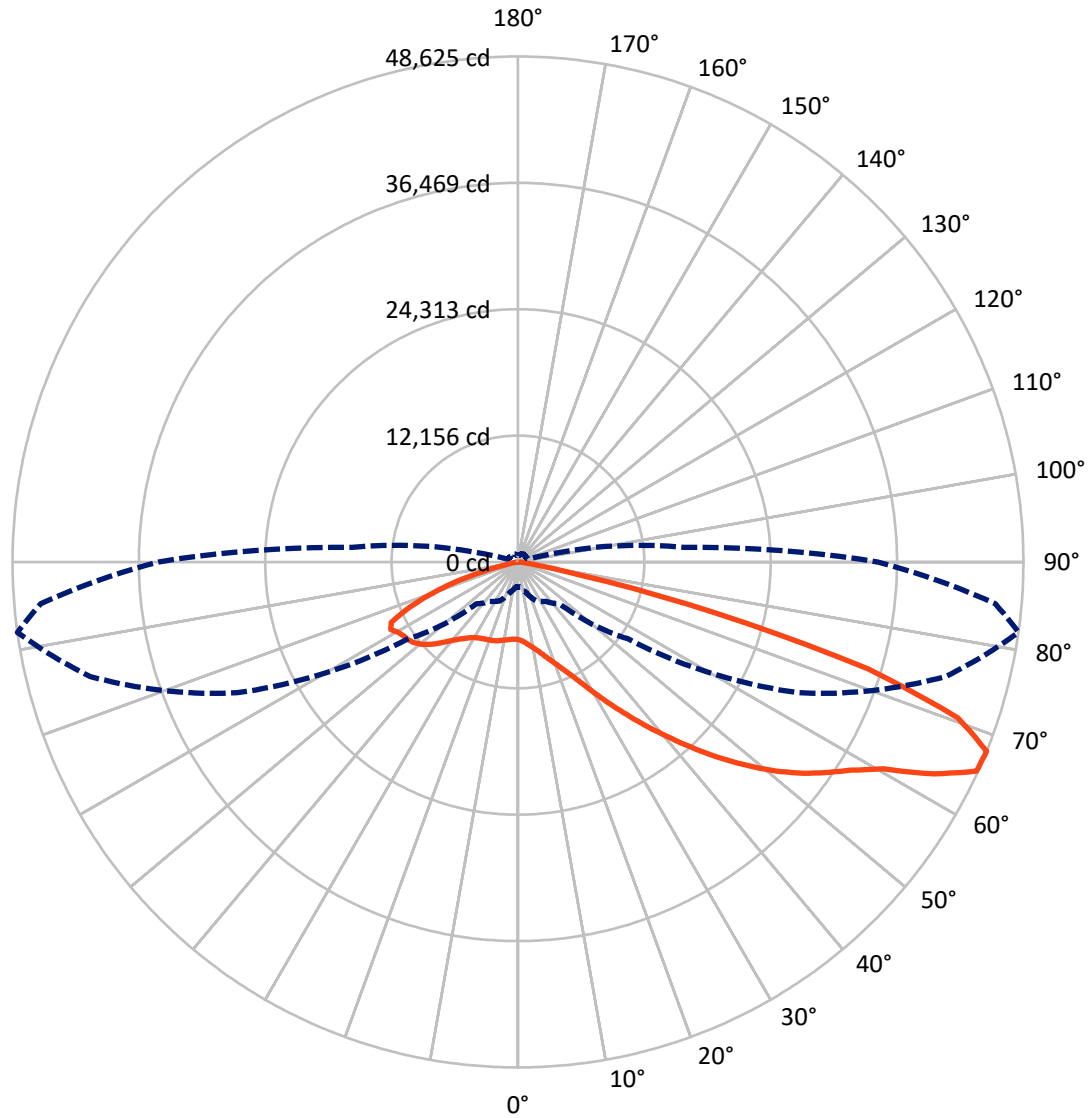
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	8162.4	0.0	8162.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36898.6	0.0	36898.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	45061.0	0.0	45061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	1.5
10°-20°	1728.3	3.8
20°-30°	2768.2	6.1
30°-40°	4895.0	10.9
40°-50°	8576.4	19.0
50°-60°	11438.6	25.4
60°-70°	10648.7	23.6
70°-80°	4087.0	9.1
80°-90°	253.8	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°	45061.0	100.0
0°-180°	45061.0	100.0

Coefficient of Utilization



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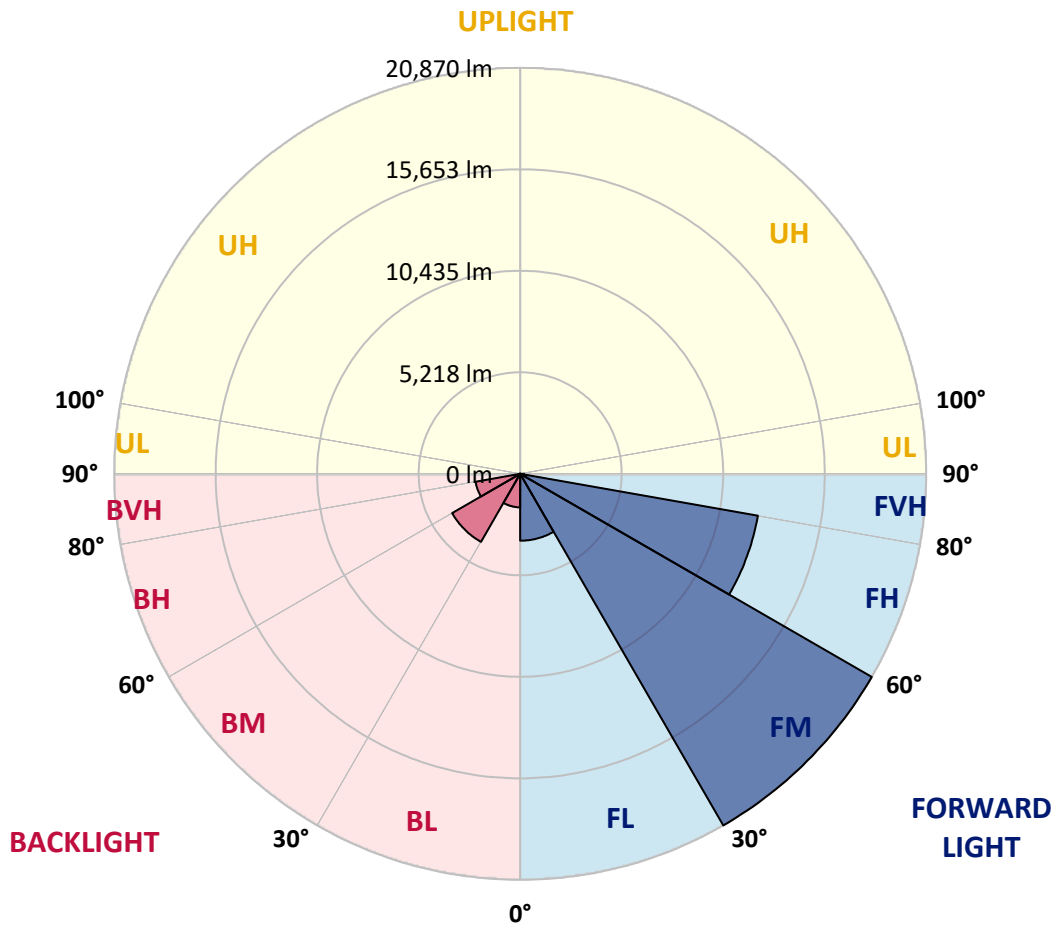
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3437.7	7.6			
FM (30°-60°)	20870.4	46.3			
FH (60°-80°)	12406.0	27.5			G5
FVH (80°-90°)	184.6	0.4			G2/225
BL (0°-30°)	1723.9	3.8	B3/2500		
BM (30°-60°)	4039.5	9.0	B3/5000		
BH (60°-80°)	2329.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	69.3	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°	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1
2.5°	7890.1	7935.5	7909.5	7896.6	7873.9	7841.4	7815.5	7734.4	7650.0	7594.9
5°	8049.1	8094.5	8091.2	8104.2	8120.4	8130.2	8123.7	8032.8	7912.8	7818.7
7.5°	7912.8	7964.7	8006.9	8071.8	8185.3	8305.4	8363.7	8344.3	8221.0	8091.2
10°	7526.7	7581.9	7682.4	7834.9	8075.0	8334.5	8551.9	8652.5	8574.6	8431.9
12.5°	6819.5	6874.6	7072.5	7403.4	7805.7	8256.7	8672.0	8941.2	8960.7	8817.9
15°	6024.6	6079.8	6290.7	6705.9	7319.1	8042.6	8736.8	9246.2	9418.1	9294.9
17.5°	5531.5	5580.2	5739.1	6073.3	6712.4	7614.3	8714.1	9570.6	9963.2	9865.8
20°	5382.3	5424.4	5499.1	5732.6	6264.7	7169.9	8564.9	9875.6	10550.4	10495.2
22.5°	5541.2	5580.2	5602.9	5706.7	6040.8	6877.9	8376.7	10187.0	11231.7	11238.2
25°	5907.8	5946.8	5920.8	5985.7	6131.7	6787.0	8305.4	10553.6	12088.2	12159.6
27.5°	6511.3	6514.5	6452.9	6449.6	6472.3	6923.3	8380.0	10946.2	13168.5	13301.5
30°	7721.4	7672.7	7435.9	7179.6	7062.8	7332.1	8587.6	11410.1	14443.5	14680.4
32.5°	9586.8	9515.5	9080.7	8467.6	7851.2	7990.7	8960.7	11938.9	15832.1	16260.3
35°	11611.3	11591.8	11137.6	10226.0	9148.9	8928.3	9567.4	12633.2	17347.2	18028.5
37.5°	13493.0	13483.2	13223.7	12149.8	10839.1	10235.7	10540.7	13541.6	18969.3	19955.6
40°	15212.4	15241.6	14982.1	14021.8	12701.3	11913.0	11864.3	14664.1	20773.1	22054.6
42.5°	16698.3	16730.7	16468.0	15757.5	14540.9	13768.7	13489.7	16039.7	22534.8	24309.4
45°	17707.3	17908.4	17869.5	17301.7	16429.0	15627.7	15442.8	17765.7	24543.0	26700.4
47.5°	17992.8	18177.7	18469.7	18547.5	18015.5	17227.1	17447.7	19845.2	26573.9	29094.7
50°	17288.8	17460.7	18067.4	18875.2	19245.1	19001.7	19397.5	22074.1	28653.5	31482.5
52.5°	15900.2	16075.4	16841.0	18119.3	19627.9	20393.5	21353.8	24270.4	30668.2	33743.7
55°	13892.0	14076.9	15059.9	16506.9	18897.9	20967.8	22985.7	26463.6	32514.2	35777.9
57.5°	11160.3	11296.6	12318.5	14343.0	17061.7	20396.8	24189.3	28857.8	34253.1	37776.4
60°	7273.7	7393.7	8581.1	10839.1	14018.5	18489.1	24429.4	31527.9	36563.0	40375.0
62.5°	4837.2	4918.3	5622.3	7280.2	9872.3	14826.3	23024.6	33659.4	39950.0	44897.6
65°	3318.9	3400.0	4104.0	5259.0	6378.2	9807.5	18985.5	33377.1	43019.1	48489.0
67.5°	2368.3	2436.5	3033.4	4123.5	4616.6	5697.0	12870.0	29769.5	42577.9	48625.2
70°	1696.8	1735.7	2228.8	3211.8	3669.3	3422.7	7156.9	22768.3	37280.0	44900.8
72.5°	1187.4	1200.4	1547.5	2446.2	2955.5	2498.1	3406.5	15180.0	28196.0	35242.6
75°	804.6	820.8	1041.4	1794.1	2371.6	1907.6	1803.8	8139.9	16552.3	19507.8
77.5°	493.1	499.6	671.6	1226.3	1774.6	1453.4	1161.5	3448.7	6404.2	6287.4
80°	279.0	279.0	428.2	762.4	1210.1	937.6	814.3	1466.4	2027.7	1781.1
82.5°	155.7	159.0	311.5	473.7	801.3	554.8	447.7	678.1	876.0	775.4
85°	64.9	71.4	191.4	223.9	382.8	275.8	181.7	285.5	324.4	288.7
87.5°	6.5	9.7	58.4	42.2	45.4	55.2	26.0	55.2	45.4	45.4
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°
7465.1	0°	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1	7465.1
7575.4	2.5°	7513.7	7465.1	7341.8	7199.1	7010.9	6920.0	6796.8	6712.4	6641.0	6647.5
7763.6	5°	7659.7	7536.5	7260.7	6916.8	6488.6	6183.6	5859.2	5635.3	5453.6	5414.7
8023.1	7.5°	7860.9	7666.2	7182.8	6563.2	5839.7	5291.4	4801.5	4486.8	4263.0	4191.6
8337.8	10°	8120.4	7838.2	7082.3	6118.7	5077.3	4379.8	3854.2	3607.6	3455.2	3403.2
8707.6	12.5°	8422.1	8036.1	6949.2	5576.9	4292.2	3620.6	3286.5	3163.2	3114.5	3098.3
9161.8	15°	8801.7	8282.6	6748.1	4934.5	3627.1	3156.7	3013.9	2997.7	3004.2	2997.7
9706.9	17.5°	9252.7	8551.9	6420.4	4272.7	3179.4	2919.8	2867.9	2880.9	2897.1	2893.9
10316.8	20°	9745.8	8817.9	6001.9	3685.5	2874.4	2751.1	2721.9	2734.9	2747.9	2741.4
11020.8	22.5°	10307.1	9103.4	5538.0	3228.1	2670.0	2595.4	2563.0	2566.2	2566.2	2553.2
11913.0	25°	10978.6	9418.1	5051.3	2903.6	2514.3	2455.9	2417.0	2404.0	2384.5	2345.6
12996.6	27.5°	11780.0	9752.3	4584.2	2676.5	2391.0	2335.9	2290.5	2258.0	2209.4	2144.5
14297.5	30°	12681.9	10157.8	4188.4	2533.8	2293.7	2238.6	2186.6	2138.0	2066.6	1985.5
15793.1	32.5°	13742.8	10592.6	3899.6	2439.7	2206.1	2147.7	2086.1	2027.7	1949.8	1868.7
17473.7	35°	15008.0	11118.1	3730.9	2374.8	2138.0	2060.1	1992.0	1927.1	1868.7	1797.3
19300.2	37.5°	16380.4	11676.2	3679.0	2342.4	2092.6	1972.5	1894.7	1849.2	1842.7	1800.6
21276.0	40°	17882.5	12338.0	3717.9	2322.9	2043.9	1888.2	1803.8	1794.1	1810.3	1735.7
23388.0	42.5°	19472.2	13123.1	3782.8	2300.2	1975.8	1803.8	1722.7	1722.7	1709.7	1605.9
25620.1	45°	21191.6	14028.3	3847.7	2245.0	1894.7	1719.5	1657.8	1635.1	1580.0	1479.4
27865.1	47.5°	22924.1	14949.6	3896.4	2144.5	1797.3	1648.1	1592.9	1541.0	1459.9	1369.1
30068.0	50°	24568.9	15776.9	3844.5	1995.2	1687.0	1580.0	1521.6	1450.2	1362.6	1301.0
32154.0	52.5°	26038.6	16493.9	3623.9	1820.0	1570.2	1508.6	1456.7	1382.1	1310.7	1245.8
34035.7	55°	27316.8	17074.6	3234.5	1654.6	1466.4	1446.9	1395.0	1301.0	1203.6	1148.5
35901.2	57.5°	28543.2	17515.9	2747.9	1518.3	1372.3	1378.8	1301.0	1216.6	1125.8	1067.4
38415.5	60°	30175.0	18106.3	2254.8	1391.8	1271.8	1291.2	1206.9	1145.2	1031.7	957.1
42727.1	62.5°	32783.4	19024.4	1790.8	1236.1	1155.0	1161.5	1125.8	1051.1	914.9	827.3
45922.7	65°	34853.3	18687.0	1411.3	1067.4	1021.9	1031.7	1031.7	950.6	804.6	704.0
46094.7	67.5°	34619.7	16000.8	1125.8	901.9	895.4	901.9	924.6	856.5	713.7	632.6
42584.4	70°	31891.2	12727.3	901.9	749.4	778.6	762.4	827.3	781.9	642.4	561.3
33013.8	72.5°	26022.4	9168.3	687.8	619.7	596.9	622.9	746.2	704.0	535.3	444.5
17486.7	75°	15205.9	4892.4	512.6	489.9	431.5	519.1	661.8	600.2	408.8	327.7
5359.5	77.5°	4950.8	1706.5	376.3	360.1	321.2	418.5	564.5	506.1	334.2	259.5
1570.2	80°	1326.9	515.8	256.3	236.8	207.6	311.5	447.7	402.3	240.1	168.7
674.8	82.5°	532.1	217.4	149.2	133.0	113.5	214.1	353.6	324.4	178.4	107.1
210.9	85°	171.9	71.4	55.2	42.2	51.9	133.0	210.9	220.6	126.5	55.2
32.4	87.5°	22.7	9.7	9.7	13.0	9.7	22.7	64.9	61.6	35.7	6.5
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>
7465.1
6582.6
5327.1
4120.2
3364.3
3088.6
2994.5
2887.4
2738.2
2546.8
2339.1
2138.0
1979.0
1871.9
1790.8
1797.3
1738.9
1605.9
1476.1
1365.8
1291.2
1239.3
1142.0
1060.9
947.3
820.8
694.3
619.7
551.5
434.7
317.9
249.8
165.5
107.1
42.2
0.0
0.0

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