

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: P955996

Luminaire Tested: **GALN-SB8D-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

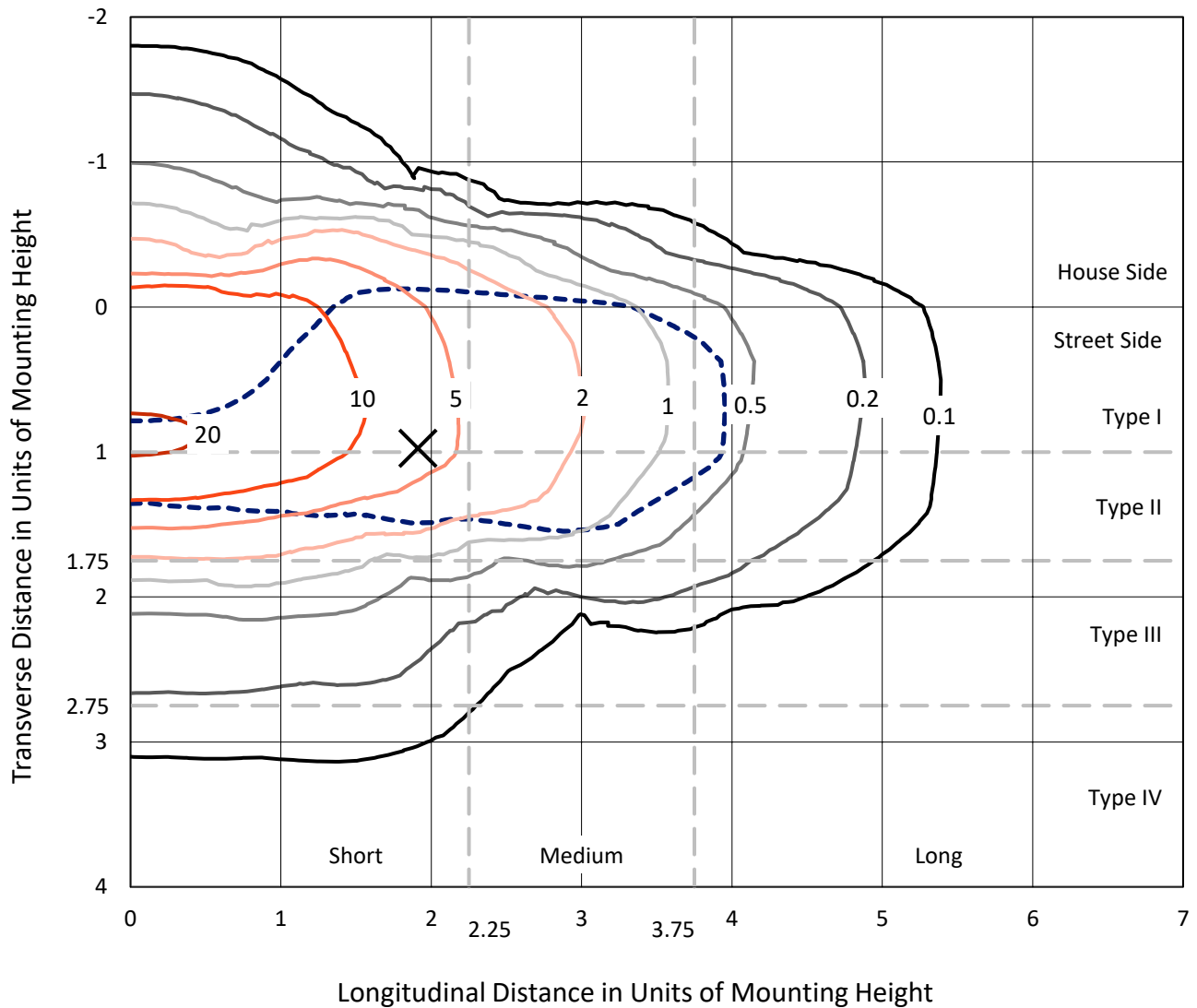
Lumens per Lamp: N/A  
Luminaire Lumens: 66531 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

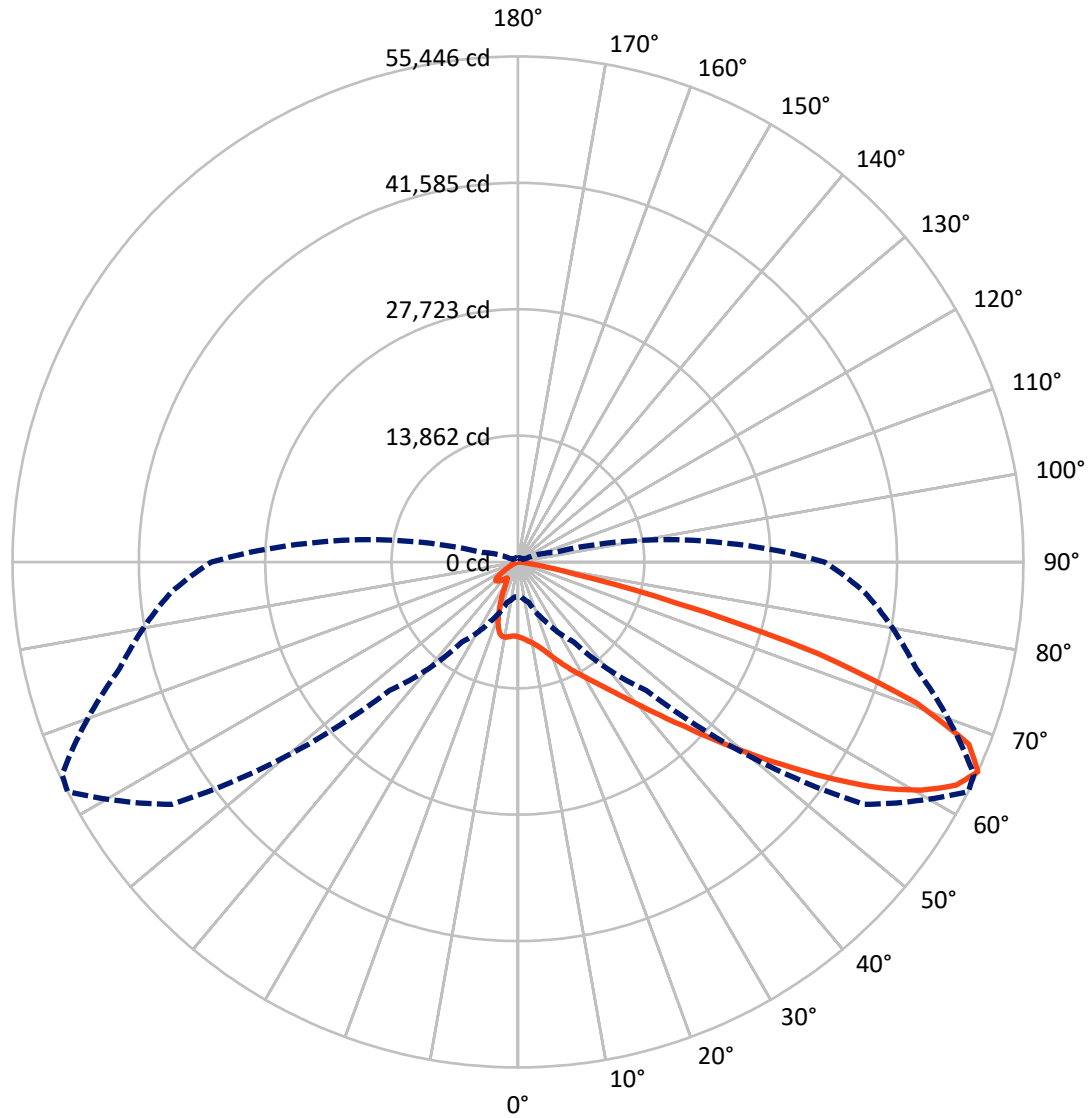
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P955996  
CATALOG NUMBER: GALN-SB8D-740-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SB8D-740-U-T2U-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9779.5	0.0	9779.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	56751.5	0.0	56751.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	66531.0	0.0	66531.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	773.6	1.2
10°-20°	2146.6	3.2
20°-30°	3737.8	5.6
30°-40°	6736.9	10.1
40°-50°	13361.4	20.1
50°-60°	18200.5	27.4
60°-70°	14527.5	21.8
70°-80°	6574.0	9.9
80°-90°	472.5	0.7
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°	66531.0	100.0
0°-180°	66531.0	100.0

**Coefficient of Utilization**



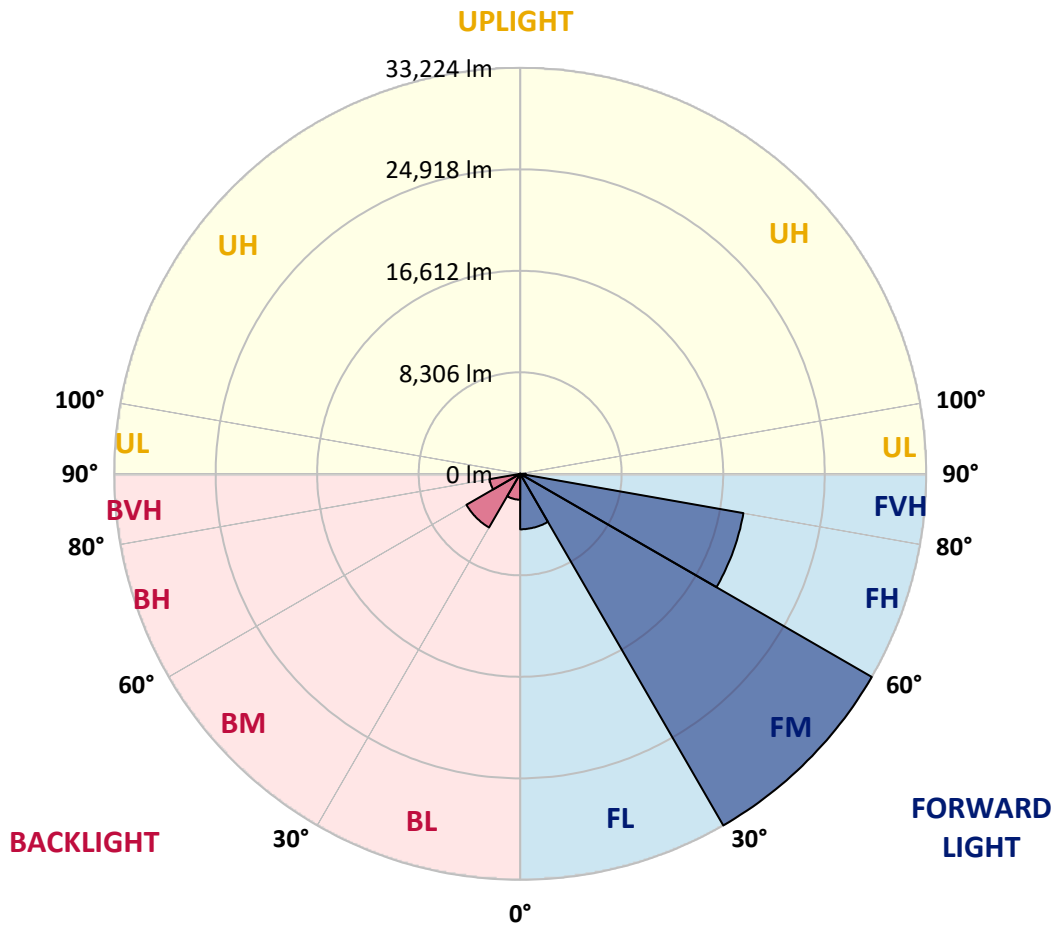
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 CATALOG NUMBER: GALN-SB8D-740-U-T2U-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4541.6	6.8			
FM (30°-60°)	33223.9	49.9			
FH (60°-80°)	18548.5	27.9			G5
FVH (80°-90°)	437.5	0.7			G3/500
BL (0°-30°)	2116.5	3.2	B3/2500		
BM (30°-60°)	5075.0	7.6	B4/8500		
BH (60°-80°)	2553.0	3.8	B4/5000		G4/5000
BVH (80°-90°)	35.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2
2.5°	8403.4	8380.5	8412.6	8398.8	8389.7	8371.4	8362.2	8353.1	8334.8	8321.0
5°	8426.3	8412.6	8444.6	8472.1	8499.5	8527.0	8540.7	8559.0	8540.7	8504.1
7.5°	8234.1	8224.9	8293.6	8376.0	8499.5	8604.8	8719.2	8783.3	8787.9	8774.2
10°	8220.3	8197.5	8266.1	8366.8	8527.0	8714.7	8916.0	9053.4	9071.7	9131.2
12.5°	8435.5	8412.6	8508.7	8618.5	8783.3	8980.1	9227.3	9419.5	9447.0	9529.4
15°	8797.0	8765.0	8874.9	9016.7	9227.3	9451.6	9712.4	9886.4	9909.3	10010.0
17.5°	9218.1	9186.1	9314.2	9465.3	9694.1	10000.8	10302.9	10495.1	10522.6	10586.7
20°	9758.2	9717.0	9817.7	9955.0	10197.6	10563.8	10925.4	11200.0	11195.4	11195.4
22.5°	10385.3	10321.2	10408.2	10518.0	10746.9	11190.8	11671.4	11996.4	11996.4	11868.2
25°	11058.1	10994.0	11090.1	11190.8	11392.2	11895.7	12458.7	12861.4	12879.7	12660.1
27.5°	11900.3	11817.9	11891.1	12010.1	12129.1	12641.7	13310.0	13776.8	13786.0	13447.3
30°	13520.5	13287.1	13058.3	12930.1	12985.0	13493.1	14207.1	14724.3	14770.1	14303.2
32.5°	16486.4	16440.7	15635.1	14582.4	14033.2	14408.5	15209.5	15831.9	15859.4	15259.8
35°	21095.5	21040.6	19745.3	17740.5	15950.9	15635.1	16426.9	17163.8	17145.5	16468.1
37.5°	26597.1	26546.7	24839.5	22157.4	19260.1	17488.8	17996.9	18770.4	18884.8	17996.9
40°	31297.7	31110.0	30029.9	27443.8	23654.1	20564.6	20230.4	20743.1	20862.1	19809.4
42.5°	34858.6	34698.4	34149.2	32533.5	28972.6	25114.1	22862.2	23059.1	23191.8	21928.5
45°	36703.2	36666.5	36886.2	36735.2	34391.8	30698.1	26624.6	25805.3	25855.6	24276.5
47.5°	36964.1	36945.7	37948.1	39367.0	39051.2	36996.1	31453.3	29228.9	29050.4	26926.6
50°	35426.2	35389.6	37311.9	39971.2	42163.6	42287.1	36936.6	33087.3	32693.7	29668.3
52.5°	30515.0	30505.9	33664.0	38090.0	43257.5	46919.1	42355.8	37325.6	36666.5	32570.1
55°	23480.1	23649.5	27269.9	32501.5	41261.9	49148.1	47221.2	42030.8	41019.3	35490.3
57.5°	16632.9	16880.1	20459.3	25118.7	35073.7	47829.9	50512.0	46745.2	45655.8	38401.2
60°	8934.4	9154.0	12737.9	18298.9	26093.6	42914.2	52246.7	50837.0	49807.2	41165.8
62.5°	5323.1	5396.3	6879.3	11813.3	17649.0	32785.2	51509.8	53954.0	53107.2	43486.3
65°	3821.8	3835.5	4581.6	7213.4	10714.8	19919.2	46342.4	55446.1	55185.2	45234.7
67.5°	3217.6	3208.5	3519.7	4792.1	7300.4	9977.9	35517.7	53336.1	54443.7	46342.4
70°	2759.9	2773.7	3139.8	3510.6	5487.9	5648.0	17658.2	46438.5	48800.2	46635.3
72.5°	2055.1	2100.9	2439.6	3199.3	4142.2	3885.9	6096.6	34433.0	38703.3	43939.4
75°	1450.9	1473.8	1716.4	2691.3	3089.5	2828.6	3112.4	17800.0	23274.2	33686.9
77.5°	1116.8	1158.0	1299.9	1881.2	3043.7	1986.4	1904.0	6160.7	9465.3	20349.5
80°	604.2	677.4	938.3	1359.4	2137.5	1405.1	942.9	2453.3	3208.5	9515.6
82.5°	311.2	347.9	654.5	979.5	1217.5	1226.6	466.9	1020.7	1322.8	2938.4
85°	123.6	151.0	439.4	540.1	627.1	604.2	210.5	411.9	476.0	814.7
87.5°	27.5	45.8	160.2	123.6	119.0	128.2	50.3	96.1	91.5	96.1
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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 CATALOG NUMBER: GALN-SB8D-740-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8211.2	0°	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2	8211.2
8266.1	2.5°	8261.5	8243.2	8192.9	8138.0	8073.9	8037.3	8014.4	8009.8	7977.8	7954.9
8449.2	5°	8398.8	8380.5	8284.4	8170.0	8046.4	7950.3	7858.8	7776.4	7657.4	7634.5
8714.7	7.5°	8673.5	8623.1	8467.5	8311.9	8078.4	7799.3	7460.6	7071.5	6723.6	6618.4
9067.1	10°	9012.2	8943.5	8746.7	8472.1	7954.9	7195.1	6375.8	5616.0	5011.8	4842.5
9483.6	12.5°	9396.6	9337.1	9076.2	8568.2	7437.7	6060.0	4805.9	3863.0	3277.1	3130.7
9927.6	15°	9854.3	9767.4	9405.8	8421.7	6513.1	4604.5	3300.0	2741.6	2531.1	2503.6
10435.6	17.5°	10339.5	10197.6	9698.7	7895.4	5268.2	3272.6	2549.4	2389.2	2297.7	2270.2
10948.2	20°	10783.5	10600.4	9872.6	7099.0	3936.2	2549.4	2283.9	2178.7	2096.3	2064.2
11460.9	22.5°	11227.4	10966.6	9872.6	6014.2	2952.2	2261.1	2096.3	2000.2	1904.0	1862.8
12010.1	25°	11689.7	11341.9	9698.7	4805.9	2375.5	2073.4	1917.8	1812.5	1730.1	1679.8
12531.9	27.5°	12138.3	11657.7	9300.5	3661.6	2114.6	1908.6	1753.0	1652.3	1574.5	1537.9
13099.4	30°	12563.9	11968.9	8742.1	2778.3	1945.2	1748.4	1602.0	1515.0	1437.2	1400.6
13836.3	32.5°	13140.6	12362.5	8147.1	2279.4	1798.8	1597.4	1464.6	1382.3	1313.6	1286.1
14792.9	35°	13941.6	12943.8	7634.5	2238.2	1675.2	1473.8	1341.1	1263.3	1194.6	1171.7
16028.7	37.5°	15076.7	13882.1	7364.4	2512.8	1574.5	1364.0	1240.4	1158.0	1093.9	1075.6
17598.7	40°	16477.3	15154.5	7510.9	2787.4	1505.8	1267.8	1148.8	1066.4	1011.5	988.6
19402.0	42.5°	18138.7	16724.4	8321.0	2998.0	1460.1	1185.4	1061.9	970.3	933.7	924.6
21447.9	45°	20047.4	18450.0	9561.4	3222.2	1386.8	1107.6	974.9	906.3	878.8	874.2
23672.4	47.5°	22216.9	20344.9	10998.6	3501.4	1313.6	1034.4	906.3	860.5	837.6	828.4
25992.9	50°	24368.1	22253.5	12477.0	3657.0	1254.1	965.8	851.3	814.7	796.4	791.8
28446.2	52.5°	26620.0	24217.0	13671.6	3510.6	1203.8	910.8	805.6	778.1	759.8	755.2
30707.3	55°	28766.6	25805.3	13877.5	2979.6	1103.1	855.9	755.2	741.5	718.6	718.6
33000.3	57.5°	30615.7	26601.7	12422.0	2187.8	1002.4	773.5	704.9	691.1	672.8	668.2
35069.2	60°	32313.8	26372.8	9588.9	1473.8	892.5	691.1	640.8	631.6	613.3	590.4
36867.9	62.5°	33270.4	25365.9	6558.9	961.2	782.7	604.2	567.6	563.0	521.8	476.0
38199.8	65°	33632.0	23297.1	4091.9	700.3	654.5	517.2	489.7	480.6	421.1	370.7
38955.1	67.5°	33316.2	19891.7	2064.2	553.8	517.2	430.2	402.8	402.8	361.6	315.8
38909.3	70°	32052.9	14911.9	869.6	444.0	398.2	329.5	329.5	347.9	306.7	256.3
36890.8	72.5°	29311.3	10032.8	462.3	338.7	297.5	233.4	270.0	283.8	242.6	192.2
30194.6	75°	23301.6	6119.5	320.4	251.7	187.7	164.8	206.0	215.1	164.8	128.2
20701.9	77.5°	15937.2	3515.2	215.1	160.2	119.0	96.1	141.9	132.7	87.0	59.5
7982.3	80°	6998.3	1464.6	123.6	73.2	45.8	36.6	50.3	36.6	27.5	18.3
1093.9	82.5°	819.3	343.3	45.8	27.5	18.3	9.2	4.6	0.0	0.0	0.0
334.1	85°	169.3	41.2	22.9	9.2	4.6	0.0	0.0	0.0	0.0	0.0
59.5	87.5°	32.0	9.2	4.6	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>
8211.2
7977.8
7625.3
6568.0
4778.4
3089.5
2476.2
2256.5
2045.9
1840.0
1661.5
1537.9
1405.1
1286.1
1171.7
1071.0
984.1
924.6
869.6
828.4
791.8
755.2
714.0
663.7
585.9
466.9
366.2
311.2
251.7
192.2
123.6
64.1
18.3
0.0
0.0
0.0
0.0

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