

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: P953121

Luminaire Tested: **GALN-SB6D-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

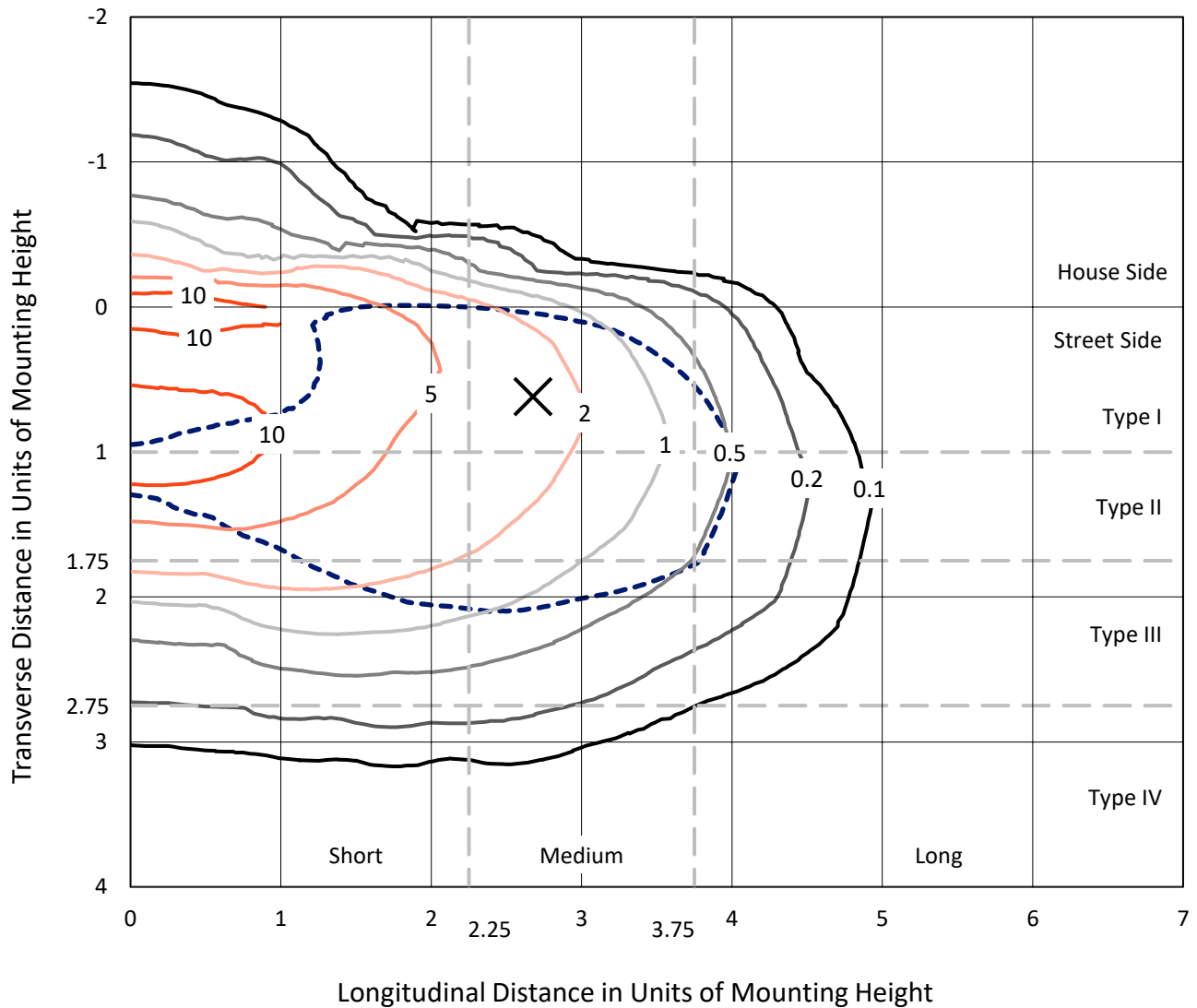
Lumens per Lamp: N/A  
Luminaire Lumens: 51374 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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

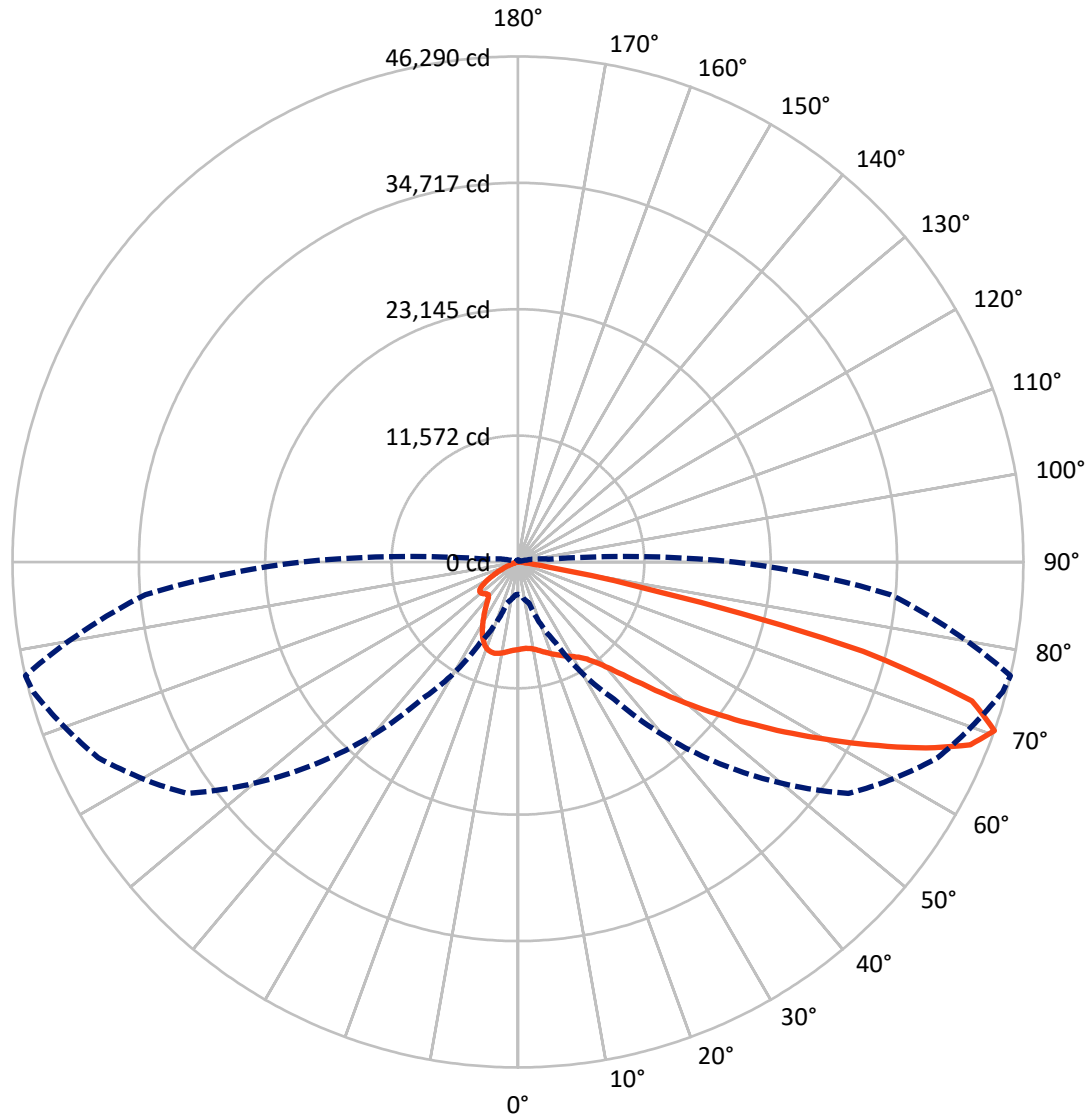
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5415.6	0.0	5415.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	45958.4	0.0	45958.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	51374.0	0.0	51374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.6	1.3
10°-20°	1639.5	3.2
20°-30°	2535.8	4.9
30°-40°	4601.4	9.0
40°-50°	8685.6	16.9
50°-60°	12550.0	24.4
60°-70°	13359.2	26.0
70°-80°	7079.4	13.8
80°-90°	232.5	0.5
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°	51374.0	100.0
0°-180°	51374.0	100.0

**Coefficient of Utilization**



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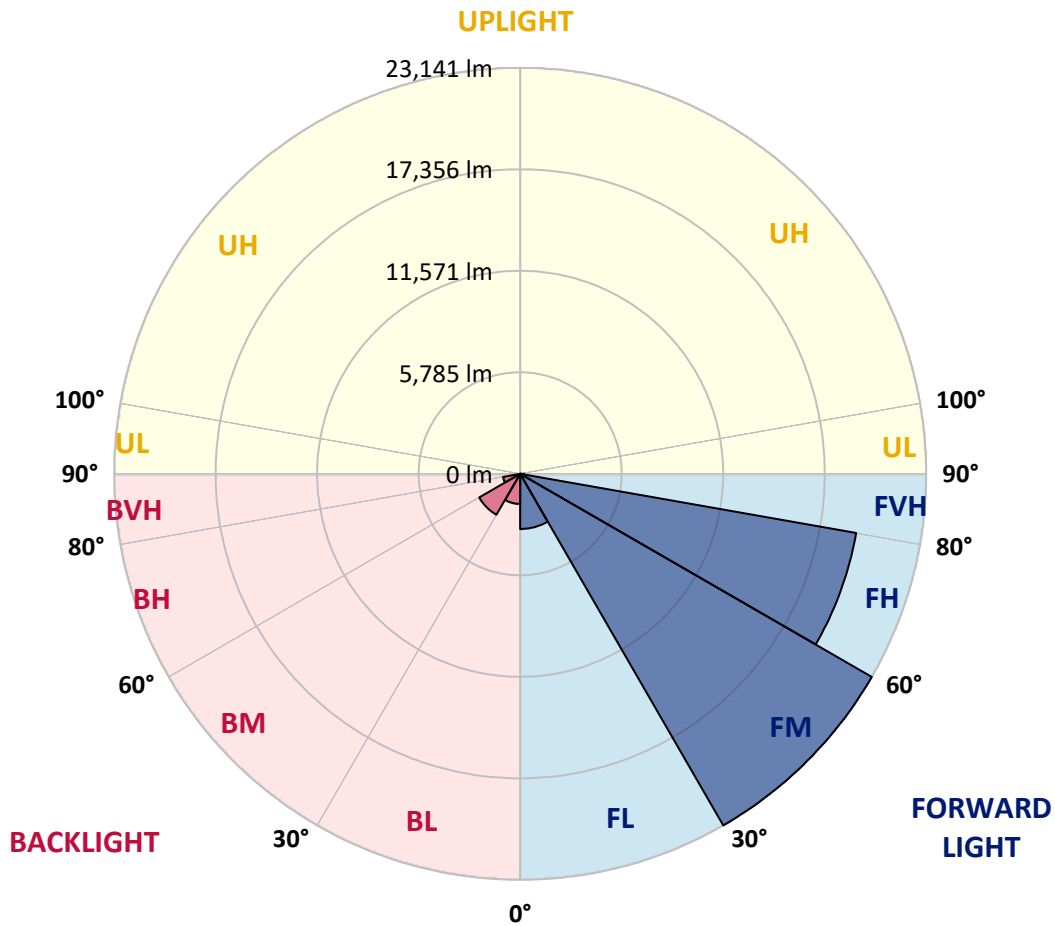
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3145.3	6.1			
FM (30°-60°)	23141.2	45.0			
FH (60°-80°)	19445.8	37.9			G5
FVH (80°-90°)	226.2	0.4			G3/500
BL (0°-30°)	1720.6	3.3	B3/2500		
BM (30°-60°)	2695.9	5.2	B3/5000		
BH (60°-80°)	992.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.3	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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4
2.5°	7523.5	7591.7	7581.9	7627.3	7643.6	7708.5	7773.3	7860.9	7958.3	7955.0	
5°	7098.5	7166.7	7182.9	7244.5	7322.4	7423.0	7556.0	7731.2	7912.8	7942.0	
7.5°	6595.7	6667.0	6709.2	6832.5	6975.2	7182.9	7400.2	7656.5	7958.3	8000.4	
10°	6092.8	6157.7	6212.8	6388.0	6615.1	6923.3	7277.0	7646.8	8052.3	8114.0	
12.5°	5781.3	5843.0	5904.6	6057.1	6339.4	6715.7	7195.9	7692.2	8208.1	8295.7	
15°	5671.0	5726.2	5774.9	5911.1	6173.9	6602.1	7179.6	7786.3	8406.0	8522.8	
17.5°	5687.3	5716.5	5748.9	5852.7	6109.0	6550.2	7208.8	7948.5	8639.6	8743.4	
20°	5781.3	5797.6	5800.8	5872.2	6099.3	6543.7	7267.2	8104.3	8860.2	8999.7	
22.5°	5901.4	5907.9	5901.4	5950.0	6160.9	6592.4	7345.1	8292.4	9106.7	9236.5	
25°	6462.6	6339.4	6183.6	6089.5	6264.7	6686.5	7461.9	8545.5	9376.0	9502.5	
27.5°	8204.8	7851.2	7293.2	6667.0	6478.9	6822.8	7624.1	8801.8	9648.5	9762.1	
30°	11033.9	10569.9	9622.6	8211.3	7166.7	7108.3	7835.0	9058.1	9937.3	10060.6	
32.5°	13869.4	13755.8	12662.5	10709.4	8714.2	7744.1	8185.4	9405.2	10320.1	10417.4	
35°	16737.3	16507.0	15611.6	13681.2	11098.7	9038.6	8769.3	9859.4	10823.0	10933.3	
37.5°	18933.7	18794.2	18239.4	16649.7	13927.8	11037.1	9768.6	10563.4	11552.9	11676.2	
40°	20873.8	20808.9	20620.8	19572.9	17091.0	13652.0	11322.6	11653.5	12565.2	12711.2	
42.5°	22398.6	22551.1	22658.2	22366.2	20351.5	16636.8	13411.9	13184.8	13976.4	14125.7	
45°	23959.1	24011.0	24442.5	24864.3	23589.3	19757.8	15767.3	14978.9	15731.6	15916.5	
47.5°	24961.6	25169.3	25928.4	26671.4	26311.3	22852.8	18297.8	17097.5	17765.8	18112.9	
50°	25036.2	25428.8	26473.5	27767.9	28293.5	25798.7	21049.0	19511.2	20221.7	20604.5	
52.5°	23793.7	24403.6	26022.5	27917.2	29364.1	28293.5	23894.3	21925.0	22836.6	23336.2	
55°	18242.7	19040.8	24325.7	27106.1	29406.3	30184.9	26664.9	24439.3	25750.0	26314.5	
57.5°	15893.8	16296.1	19125.1	25698.1	28624.4	30947.4	29169.5	26833.6	28919.7	29620.4	
60°	13223.8	13752.6	16039.8	23394.6	27563.6	31022.0	31382.1	29922.2	32355.4	33143.7	
62.5°	8986.7	9560.9	11835.2	19436.6	26113.4	30986.3	33195.7	33101.6	36173.9	37020.7	
65°	5567.2	5927.3	7426.2	15871.1	24085.7	31025.2	35093.6	36962.3	40203.3	41063.1	
67.5°	4399.3	4564.7	5346.6	12185.6	20591.6	30149.3	36988.2	40592.7	43995.9	44677.2	
70°	2955.6	3056.1	3889.9	8169.1	15319.6	26106.9	36952.6	42416.0	45949.0	46289.6	
72.5°	1557.3	1635.1	2274.3	3782.9	9252.7	18557.4	31148.5	40235.8	44005.7	43493.1	
75°	778.6	908.4	1531.3	1920.6	3951.6	10349.3	19342.5	31722.7	34636.1	32650.6	
77.5°	590.5	713.7	1265.3	1265.3	1375.6	3484.4	8191.9	17301.8	15958.7	13288.6	
80°	376.3	486.6	1106.3	957.1	574.2	885.7	2134.7	4847.0	3390.3	2579.2	
82.5°	220.6	317.9	921.4	632.6	321.2	327.7	603.4	1031.7	879.2	684.5	
85°	87.6	207.6	632.6	249.8	126.5	81.1	181.7	220.6	181.7	136.3	
87.5°	0.0	48.7	110.3	0.0	9.7	6.5	13.0	16.2	16.2	13.0	
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8013.4	0°	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4	8013.4
8019.9	2.5°	8049.1	8055.6	8075.1	8078.3	8032.9	7974.5	7951.8	7942.0	7903.1	7899.9
8071.8	5°	8146.4	8175.6	8146.4	8062.1	7860.9	7578.7	7364.6	7189.4	7030.4	6981.7
8250.2	7.5°	8341.1	8370.3	8282.7	7951.8	7445.7	6884.4	6378.3	6021.4	5700.2	5580.2
8467.6	10°	8620.1	8659.0	8383.3	7714.9	6819.5	5917.6	5061.1	4457.7	3987.2	3795.8
8762.8	12.5°	8970.5	8986.7	8438.4	7354.8	6005.2	4717.2	3503.8	2858.2	2439.7	2284.0
9119.7	15°	9356.6	9333.8	8444.9	6864.9	4895.6	3335.1	2287.2	1878.4	1709.7	1657.8
9476.6	17.5°	9762.1	9668.0	8315.1	6157.7	3679.0	2280.7	1696.8	1599.4	1570.2	1557.3
9830.2	20°	10161.1	9950.3	8078.3	5233.1	2640.9	1703.3	1541.0	1511.8	1495.6	1489.1
10187.1	22.5°	10524.5	10164.4	7672.8	4159.2	1917.4	1505.4	1456.7	1430.7	1401.5	1388.6
10534.2	25°	10878.1	10287.7	7101.8	3156.7	1534.6	1408.0	1369.1	1320.4	1281.5	1265.3
10907.3	27.5°	11222.0	10365.5	6388.0	2335.9	1369.1	1317.2	1245.8	1177.7	1148.5	1142.0
11306.4	30°	11588.6	10391.5	5576.9	1742.2	1268.5	1203.6	1099.8	1022.0	1005.7	1009.0
11844.9	32.5°	12036.3	10430.4	4759.4	1427.5	1184.2	1067.4	944.1	863.0	850.0	863.0
12630.1	35°	12571.7	10508.3	3971.0	1313.9	1109.5	927.9	794.9	726.7	713.7	723.5
13635.8	37.5°	13298.4	10634.8	3234.6	1291.2	1047.9	811.1	668.3	613.2	613.2	616.4
14868.6	40°	14265.2	10972.2	2576.0	1275.0	1015.5	723.5	564.5	541.8	551.5	558.0
16438.9	42.5°	15442.9	11689.2	2131.5	1255.5	979.8	684.5	512.6	502.9	519.1	525.6
18320.6	45°	16763.3	12597.6	1975.8	1223.1	947.3	710.5	489.9	476.9	496.4	499.6
20429.3	47.5°	18129.1	13486.5	1956.3	1187.4	914.9	749.4	483.4	454.2	476.9	480.2
22680.9	50°	19511.2	14067.3	1975.8	1132.3	863.0	749.4	486.6	431.5	451.0	460.7
25016.8	52.5°	20903.0	14333.3	1962.8	1012.2	772.1	704.0	486.6	412.0	431.5	438.0
27540.8	55°	22252.6	14281.4	1764.9	833.8	655.3	622.9	473.7	395.8	408.8	412.0
29925.4	57.5°	23320.0	13557.9	1398.3	648.9	532.1	519.1	431.5	376.3	386.1	382.8
32112.1	60°	23878.0	11968.2	999.2	499.6	418.5	408.8	379.6	350.4	356.9	340.7
33964.6	62.5°	23884.5	9865.9	668.3	395.8	334.2	324.4	324.4	314.7	308.2	275.8
35398.5	65°	23375.2	7533.3	444.5	314.7	269.3	253.1	272.5	269.3	246.6	201.1
35836.5	67.5°	22220.2	4937.8	337.4	246.6	207.6	197.9	217.4	227.1	210.9	168.7
34240.3	70°	19845.4	2874.4	279.0	191.4	155.7	146.0	175.2	194.7	175.2	136.3
29266.8	72.5°	16484.3	1550.8	227.1	142.7	107.1	97.3	139.5	159.0	139.5	100.6
18778.0	75°	10696.5	830.5	175.2	94.1	55.2	61.6	103.8	116.8	97.3	64.9
5512.1	77.5°	3591.4	366.6	110.3	45.4	26.0	26.0	61.6	71.4	45.4	22.7
1002.5	80°	801.3	152.5	45.4	19.5	9.7	9.7	13.0	13.0	6.5	0.0
308.2	82.5°	262.8	61.6	19.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.9	85°	100.6	22.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.0	87.5°	38.9	3.2	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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180°
8013.4
7906.4
6952.5
5531.5
3714.7
2235.3
1657.8
1554.0
1482.6
1385.3
1258.8
1135.5
1009.0
859.7
720.2
613.2
558.0
525.6
502.9
483.4
463.9
438.0
412.0
382.8
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