

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: P942657

Luminaire Tested: **GALN-SB6D-735-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
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-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

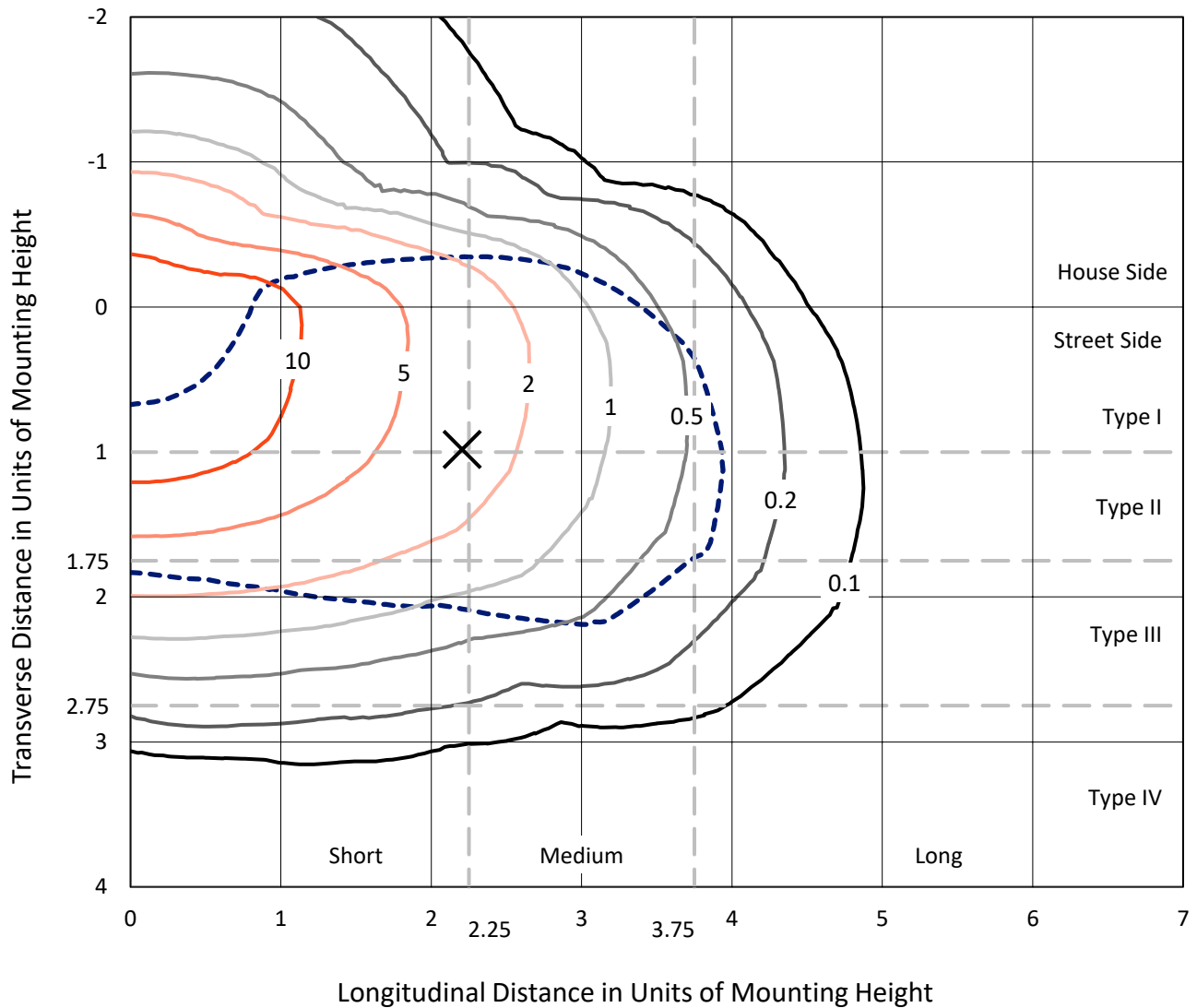
Lumens per Lamp: N/A  
Luminaire Lumens: 61750 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

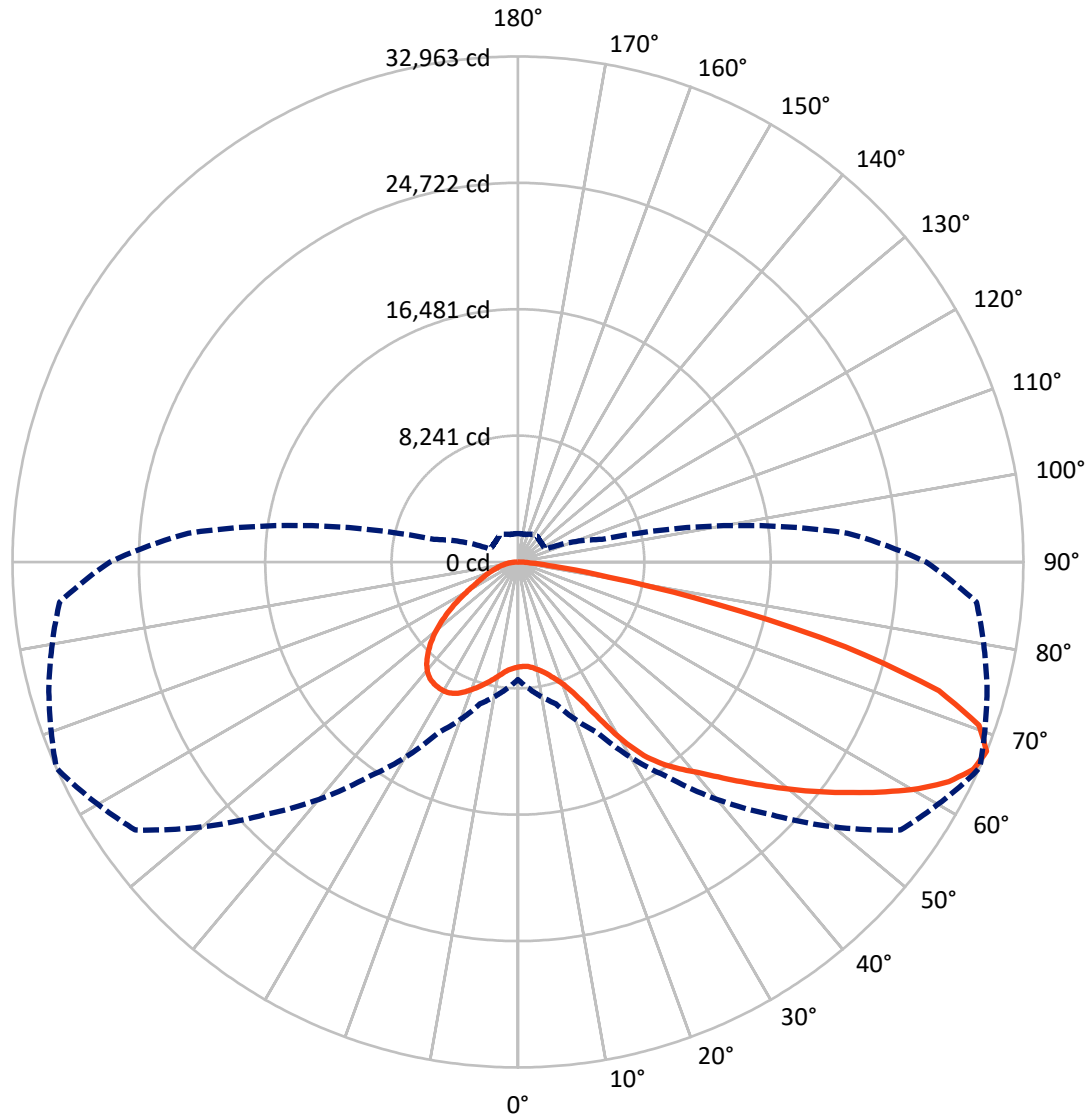
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15354.0	0.0	15354.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	46396.0	0.0	46396.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	61750.0	0.0	61750.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.0	1.1
10°-20°	2243.5	3.6
20°-30°	4324.1	7.0
30°-40°	7581.8	12.3
40°-50°	11271.7	18.3
50°-60°	14288.0	23.1
60°-70°	13980.4	22.6
70°-80°	6668.8	10.8
80°-90°	712.7	1.2
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°	61750.0	100.0
0°-180°	61750.0	100.0

**Coefficient of Utilization**



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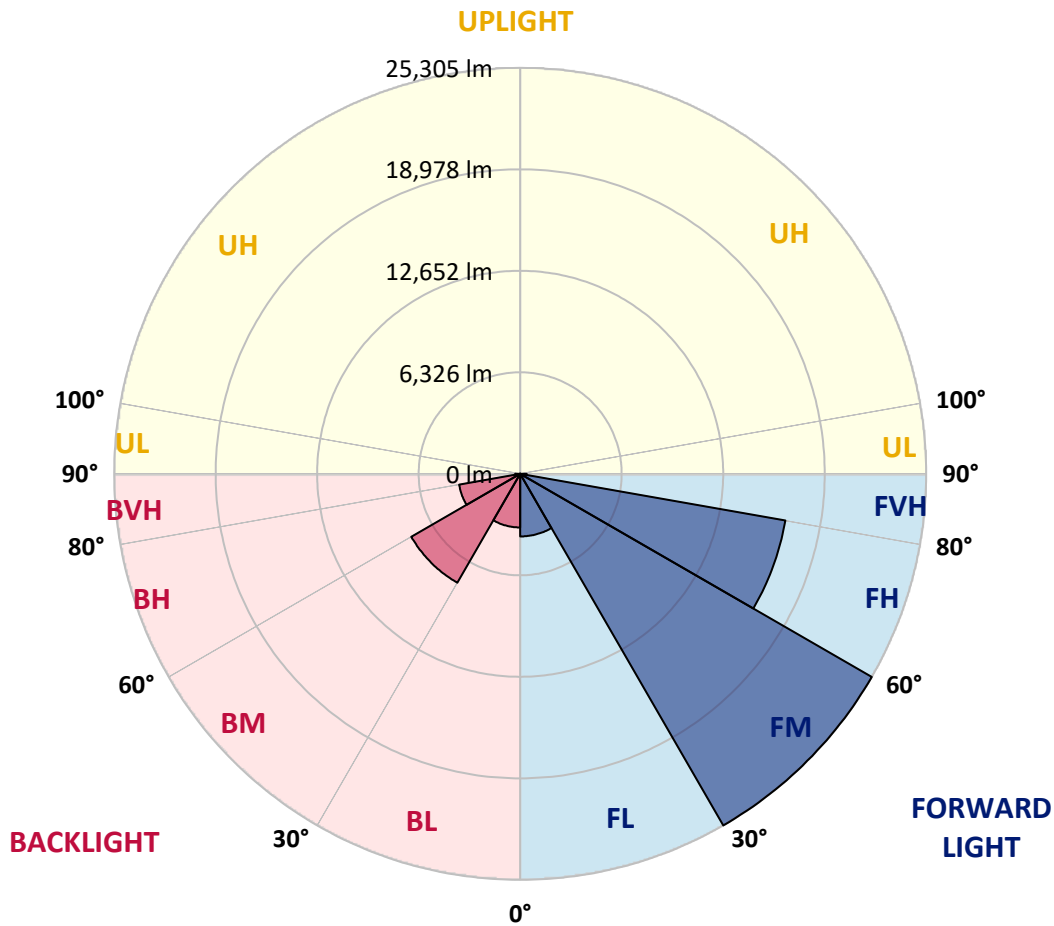
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3902.0	6.3			
FM (30°-60°)	25304.6	41.0			
FH (60°-80°)	16785.3	27.2			G5
FVH (80°-90°)	404.1	0.7			G3/500
BL (0°-30°)	3344.6	5.4	B4/5000		
BM (30°-60°)	7836.8	12.7	B4/8500		
BH (60°-80°)	3863.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	308.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9
2.5°	6777.5	6816.4	6806.7	6790.5	6787.2	6793.7	6803.5	6813.2	6810.0	6826.2
5°	6758.0	6797.0	6793.7	6793.7	6806.7	6832.7	6848.9	6865.1	6848.9	6868.4
7.5°	6771.0	6800.2	6813.2	6826.2	6858.6	6907.3	6946.2	6981.9	6962.4	6985.2
10°	6936.5	6959.2	6972.2	6972.2	6994.9	7050.0	7089.0	7153.9	7137.6	7173.3
12.5°	7238.2	7260.9	7260.9	7248.0	7264.2	7299.9	7312.8	7384.2	7355.0	7413.4
15°	7608.1	7653.5	7617.8	7595.1	7601.6	7637.3	7634.0	7689.2	7660.0	7708.7
17.5°	8016.9	8075.3	8016.9	8013.6	8000.6	8039.6	8042.8	8091.5	8039.6	8075.3
20°	8500.3	8581.4	8532.7	8548.9	8519.7	8536.0	8552.2	8623.6	8542.5	8568.4
22.5°	9181.6	9278.9	9227.0	9288.7	9269.2	9256.2	9253.0	9379.5	9253.0	9262.7
25°	10174.4	10291.2	10200.3	10284.7	10284.7	10326.9	10375.5	10537.8	10326.9	10265.2
27.5°	11640.8	11757.6	11579.2	11631.1	11614.9	11718.7	11666.8	12069.1	11842.0	11741.4
30°	13405.8	13613.4	13276.0	13263.0	13246.8	13412.3	13486.9	13752.9	13522.6	13422.0
32.5°	15313.5	15530.9	15128.6	15011.8	14950.1	15050.7	14989.0	15203.2	15044.2	14888.5
35°	17331.5	17545.6	17162.8	16935.7	16689.1	16478.2	16257.6	16312.8	16163.5	15926.7
37.5°	19239.2	19631.8	19226.2	18982.9	18528.7	18116.6	17500.2	17243.9	17104.4	16887.0
40°	21182.6	21406.4	21098.2	20890.6	20397.4	19751.8	18765.5	18223.7	18035.5	17824.6
42.5°	22613.3	22827.5	22662.0	22519.3	22133.2	21383.7	20108.7	19430.6	19158.1	18921.2
45°	23748.9	23907.9	23804.0	23855.9	23690.5	22963.7	21500.5	20725.1	20442.9	20154.1
47.5°	24206.3	24375.0	24540.5	24848.7	25131.0	24595.7	22996.2	22126.7	21828.2	21533.0
50°	24154.4	24326.4	24806.5	25461.9	26337.9	26159.5	24573.0	23619.1	23343.3	23005.9
52.5°	23739.1	23933.8	24550.2	25640.4	27035.4	27330.7	26178.9	25160.2	24900.6	24498.3
55°	22649.0	22765.8	23690.5	25234.8	27200.9	28148.3	27752.4	26801.8	26542.3	25981.0
57.5°	20627.8	20796.5	22142.9	24141.4	26785.6	28703.1	29134.6	28527.9	28278.0	27470.2
60°	17990.1	18259.4	19800.5	22305.1	25728.0	28699.8	30390.1	30224.7	30017.0	28936.6
62.5°	15005.3	15316.7	16799.4	19709.6	23878.7	27885.5	31175.3	31645.7	31538.6	30289.6
65°	11524.0	11738.2	13214.4	16351.7	21000.9	26136.7	31266.1	32615.8	32635.2	31318.0
67.5°	7673.0	8289.4	9570.9	12270.3	17146.6	23278.4	30468.0	32774.8	32962.9	31671.7
70°	3744.0	4555.1	5810.7	7974.7	12270.3	18895.3	28381.9	31470.5	31889.0	30639.9
72.5°	1554.1	1816.9	2501.4	3935.4	7043.6	12750.4	24190.1	27934.1	28709.5	27149.0
75°	1047.9	1135.5	1430.8	2018.0	3208.7	6287.6	17445.0	20828.9	22078.0	20504.5
77.5°	807.9	863.0	1041.4	1411.3	1907.7	2378.1	9337.3	12552.5	13198.1	12218.3
80°	635.9	678.1	778.7	1028.5	1352.9	1271.8	3182.7	5687.4	6060.5	5083.9
82.5°	551.5	567.8	558.0	697.5	898.7	743.0	1044.7	2099.1	2316.5	1680.6
85°	399.1	444.5	463.9	431.5	476.9	376.3	428.3	743.0	817.6	730.0
87.5°	162.2	240.1	295.2	279.0	175.2	107.1	133.0	217.4	249.8	272.5
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°
6848.9	0°	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9	6848.9
6852.1	2.5°	6855.4	6878.1	6894.3	6913.8	6926.8	6946.2	6985.2	7007.9	7011.1	7027.3
6904.0	5°	6917.0	6949.5	6985.2	7037.1	7095.5	7144.1	7218.8	7270.7	7290.1	7306.3
7030.6	7.5°	7050.0	7095.5	7160.4	7251.2	7335.5	7400.4	7491.3	7552.9	7614.6	7637.3
7231.7	10°	7248.0	7312.8	7406.9	7530.2	7621.1	7705.4	7799.5	7851.4	7913.0	7939.0
7471.8	12.5°	7494.5	7562.7	7685.9	7857.9	7942.2	8000.6	8033.1	8020.1	8033.1	8055.8
7760.6	15°	7776.8	7851.4	7990.9	8175.8	8234.2	8182.3	8111.0	8046.1	8036.3	8042.8
8111.0	17.5°	8111.0	8166.1	8328.3	8484.1	8441.9	8227.8	8072.0	7968.2	7916.3	7900.1
8558.7	20°	8578.1	8578.1	8711.2	8808.5	8526.2	8162.9	7919.5	7750.8	7643.8	7598.3
9168.6	22.5°	9145.9	9094.0	9178.4	9110.2	8510.0	7981.2	7643.8	7351.8	7189.6	7124.7
10021.9	25°	9866.2	9804.5	9781.8	9360.0	8393.2	7692.4	7144.1	6790.5	6647.7	6612.1
11251.5	27.5°	10953.0	10797.3	10502.1	9496.3	8179.1	7238.2	6560.1	6232.5	6151.3	6154.6
12831.5	30°	12400.0	12088.6	11365.1	9519.0	7828.7	6595.8	5963.2	5729.6	5690.6	5706.9
14158.5	32.5°	13740.0	13444.7	12247.5	9415.2	7290.1	5966.4	5427.9	5272.1	5213.7	5233.2
15170.7	35°	14791.1	14710.0	13065.1	9269.2	6628.3	5375.9	4947.7	4814.7	4701.1	4675.2
16124.6	37.5°	15783.9	15751.5	13678.3	9064.8	5972.9	4957.4	4561.6	4386.4	4220.9	4130.1
17179.0	40°	16874.0	16841.6	14080.6	8750.1	5392.2	4594.0	4214.5	3984.1	3779.7	3614.2
18372.9	42.5°	18100.4	17909.0	14272.0	8299.1	4899.0	4285.8	3932.2	3620.7	3351.4	3199.0
19722.6	45°	19440.3	19008.8	14268.8	7724.9	4483.7	4003.6	3630.5	3189.2	2939.4	2796.7
21108.0	47.5°	20861.4	20060.0	14093.6	7089.0	4081.4	3692.1	3163.3	2825.9	2660.4	2572.8
22613.3	50°	22327.8	21043.1	13795.1	6359.0	3669.4	3338.5	2871.3	2640.9	2514.4	2433.3
24105.8	52.5°	23706.7	21935.3	13435.0	5531.7	3250.9	2994.6	2741.5	2563.1	2430.0	2339.2
25552.8	55°	24988.2	22704.2	12925.6	4684.9	2910.2	2764.2	2679.9	2530.6	2378.1	2271.1
27022.5	57.5°	26127.0	23203.8	12046.4	3890.0	2666.9	2605.2	2615.0	2475.5	2300.3	2209.4
28469.5	60°	27074.4	23570.4	10745.4	3153.5	2469.0	2449.5	2514.4	2371.6	2167.2	2063.4
29692.6	62.5°	27642.1	23563.9	9149.2	2582.5	2300.3	2306.8	2381.4	2241.9	2034.2	1936.9
30331.7	65°	27593.5	22986.4	7397.2	2209.4	2138.0	2144.5	2241.9	2099.1	1923.9	1865.5
30010.5	67.5°	26616.9	21578.4	5674.4	1966.1	1959.6	1988.8	2102.4	2001.8	1855.8	1849.3
28096.4	70°	23972.7	18655.2	4087.9	1771.4	1774.7	1816.9	1966.1	1940.1	1820.1	1833.1
23622.3	72.5°	19223.0	14223.4	2744.7	1567.0	1570.3	1638.4	1836.3	1891.5	1784.4	1956.4
16760.5	75°	12802.3	8870.1	1764.9	1349.7	1352.9	1440.5	1722.8	1797.4	1687.1	1949.9
8720.9	77.5°	6151.3	3987.3	1278.3	1135.5	1135.5	1216.6	1489.2	1609.2	1437.3	1515.1
2803.1	80°	2125.1	1498.9	1005.8	914.9	895.4	950.6	1255.6	1395.1	1239.4	1142.0
914.9	82.5°	837.1	778.7	807.9	710.5	645.6	681.3	976.6	1151.8	911.7	824.1
515.9	85°	480.2	506.1	571.0	470.4	373.1	418.5	717.0	827.3	687.8	606.7
168.7	87.5°	129.8	178.4	262.8	243.3	168.7	178.4	340.7	457.5	395.8	305.0
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°  
6848.9  
7024.1  
7303.1  
7640.5  
7952.0  
8062.3  
8065.5  
7922.8  
7588.6  
7114.9  
6618.5  
6164.3  
5762.0  
5259.1  
4694.6  
4133.3  
3630.5  
3208.7  
2790.2  
2553.3  
2404.1  
2300.3  
2228.9  
2151.0  
2018.0  
1907.7  
1862.3  
*1859.0*  
1829.8  
1982.3  
1966.1  
1388.6  
1070.6  
820.8  
619.7  
314.7  
0.0

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