

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: P956073

Luminaire Tested: **GALN-SB8D-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8D-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

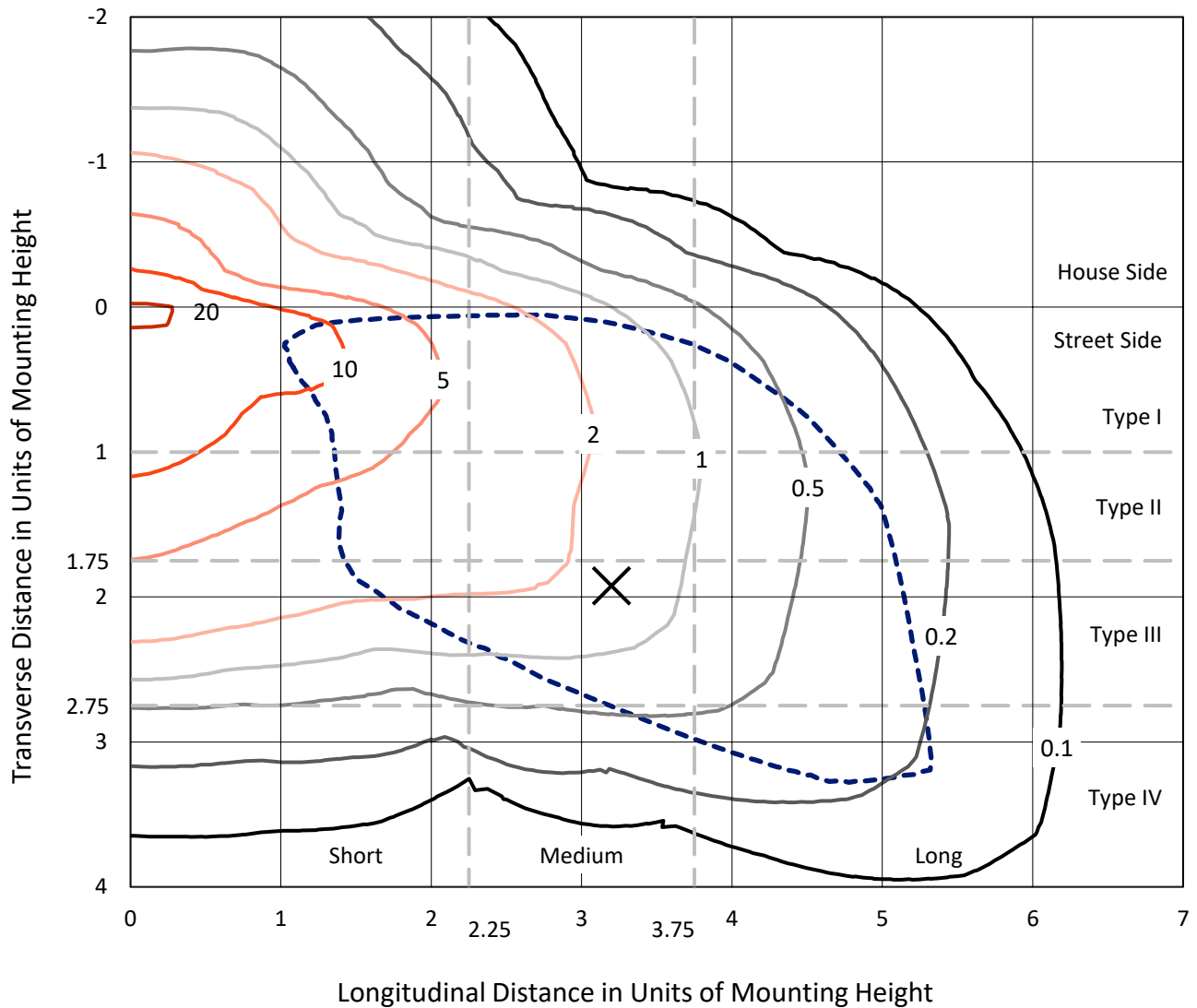
Lumens per Lamp: N/A  
Luminaire Lumens: 72261 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

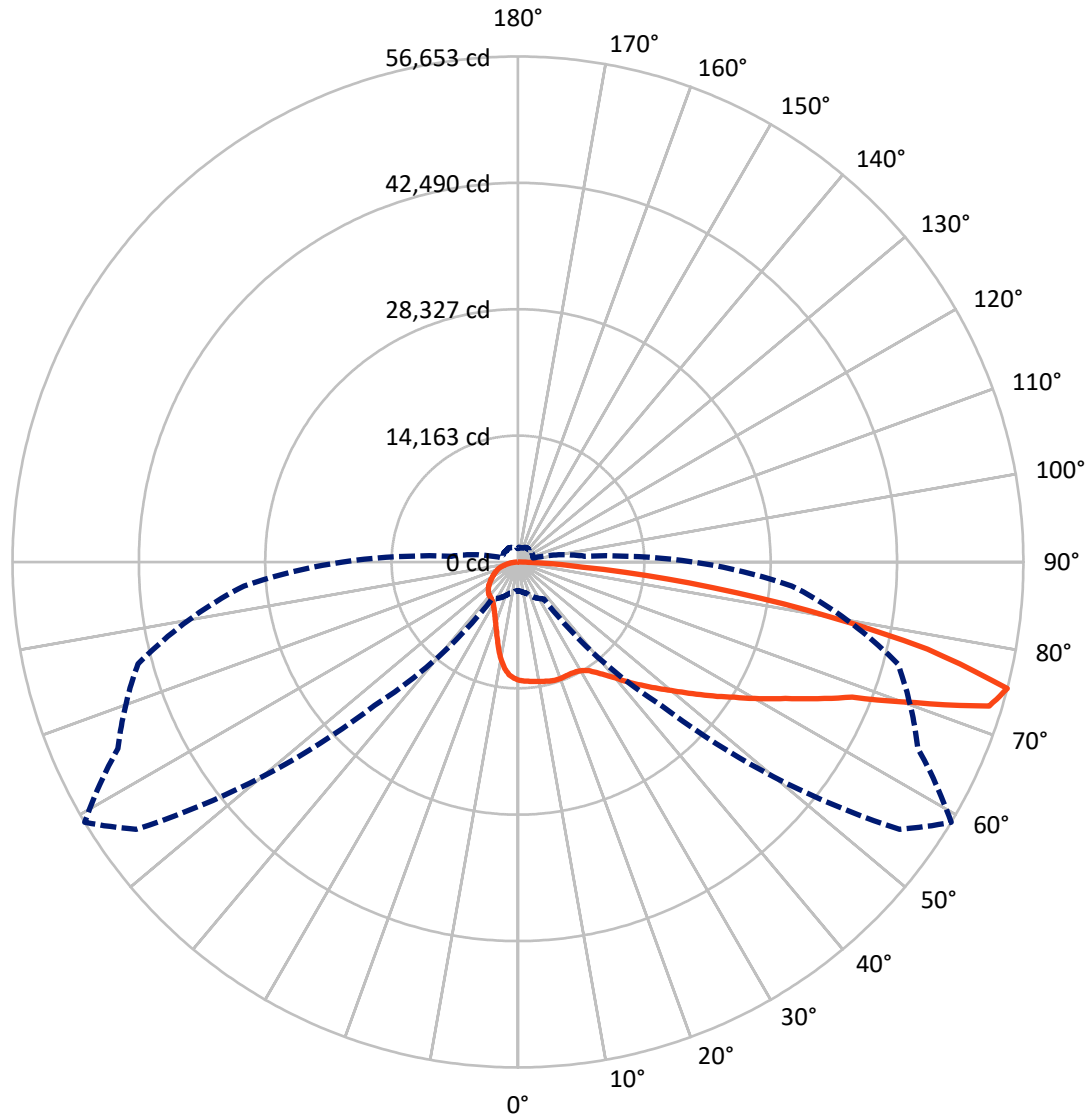
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13553.0	0.0	13553.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	58708.0	0.0	58708.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	72261.0	0.0	72261.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1189.3	1.6
10°-20°	3039.9	4.2
20°-30°	4617.3	6.4
30°-40°	6863.5	9.5
40°-50°	10207.2	14.1
50°-60°	13855.1	19.2
60°-70°	16914.8	23.4
70°-80°	13274.5	18.4
80°-90°	2299.5	3.2
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°	72261.0	100.0
0°-180°	72261.0	100.0

**Coefficient of Utilization**



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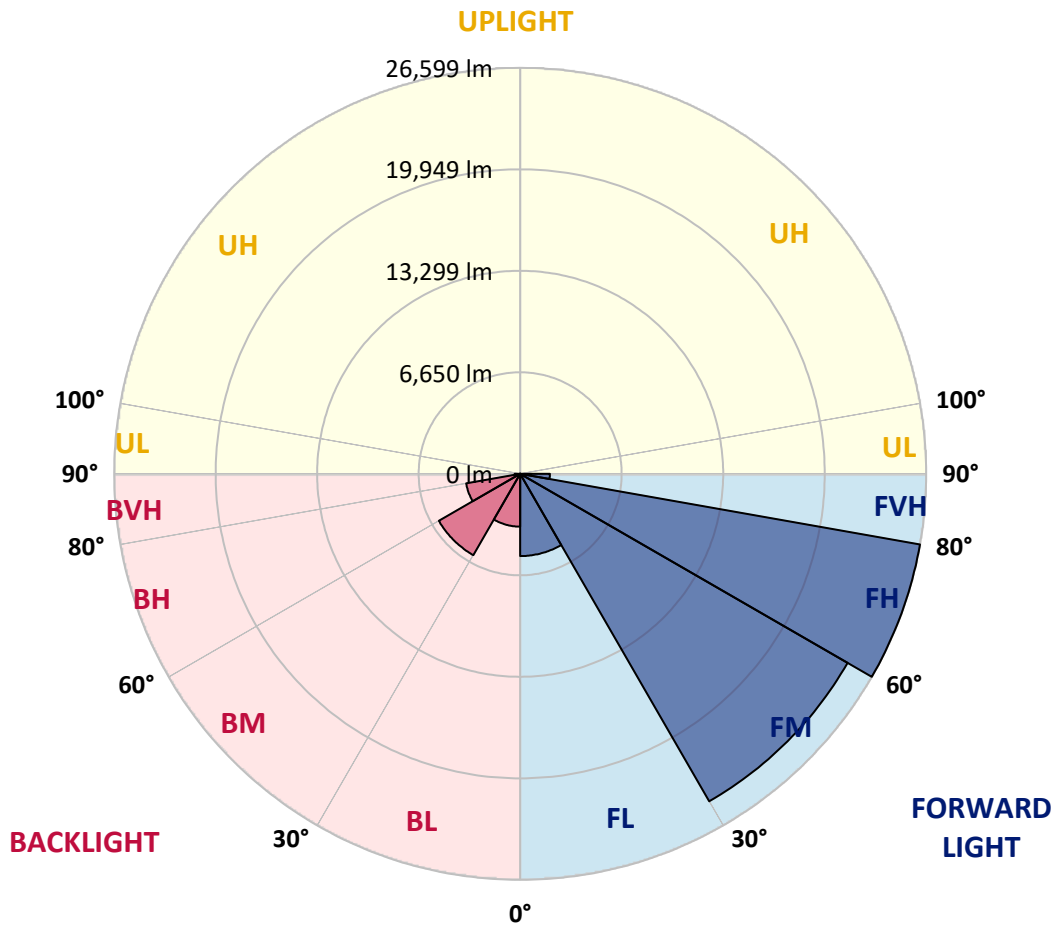
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5387.8	7.5			
FM (30°-60°)	24774.1	34.3			
FH (60°-80°)	26598.6	36.8			G5
FVH (80°-90°)	1947.5	2.7			G5
BL (0°-30°)	3458.6	4.8	B4/5000		
BM (30°-60°)	6151.7	8.5	B4/8500		
BH (60°-80°)	3590.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	352.0	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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3
2.5°	13376.1	13329.4	13376.1	13356.6	13348.9	13333.3	13337.2	13364.4	13348.9	13368.3
5°	13286.7	13259.5	13306.1	13294.4	13345.0	13352.8	13403.3	13434.4	13453.8	13457.7
7.5°	13139.0	13111.7	13177.8	13232.2	13341.1	13372.2	13477.1	13527.7	13554.9	13601.5
10°	12598.6	12587.0	12750.2	12956.3	13212.8	13372.2	13531.6	13617.1	13659.8	13784.2
12.5°	11642.4	11657.9	11871.7	12268.2	12781.3	13294.4	13593.8	13718.2	13784.2	13939.7
15°	10728.8	10725.0	10958.2	11381.9	12101.1	12952.4	13624.9	13838.7	13951.4	14180.7
17.5°	10200.2	10184.6	10347.9	10670.5	11339.1	12427.6	13547.1	13904.7	14145.8	14433.4
20°	10103.0	10071.9	10157.4	10316.8	10791.0	11852.3	13345.0	13904.7	14301.2	14674.4
22.5°	10456.7	10406.2	10371.2	10351.8	10561.7	11378.0	13115.6	13858.1	14530.6	15020.4
25°	11168.1	11090.4	10911.6	10736.6	10674.4	11164.2	12913.5	13846.4	14872.7	15486.9
27.5°	12318.7	12221.6	11860.0	11440.2	11063.2	11273.1	12824.1	13916.4	15249.7	15980.5
30°	13745.4	13640.4	13185.6	12540.3	11863.9	11677.3	12936.8	14122.4	15731.8	16637.5
32.5°	15024.3	14907.7	14518.9	13862.0	12948.5	12377.0	13294.4	14515.0	16489.8	17551.0
35°	16159.4	16023.3	15673.4	15067.0	14277.9	13360.5	13939.7	15210.9	17566.5	19035.9
37.5°	17271.1	17111.7	16730.8	16089.4	15537.4	14670.5	14829.9	16104.9	18997.1	20839.6
40°	18515.0	18285.7	17823.1	17189.5	16653.0	16206.0	16000.0	17201.1	20450.9	22853.2
42.5°	19720.1	19502.4	18950.4	18410.1	17737.6	17609.3	17356.6	18483.9	22040.8	25065.1
45°	21018.4	20758.0	20089.4	19405.2	18981.5	18542.3	18670.5	19766.7	23599.6	27319.7
47.5°	22235.2	21943.6	21154.5	20392.6	20159.4	19327.5	19875.6	21177.8	25220.6	29605.4
50°	22892.1	22604.4	21947.5	21259.4	21076.7	20295.4	21181.7	22728.8	26919.3	31883.3
52.5°	23440.2	23129.2	22270.1	21889.2	21834.8	21348.9	22791.0	24501.4	28618.0	33896.9
55°	24023.3	23677.3	22581.1	22239.0	22487.8	22530.6	24699.7	26511.1	30414.0	35860.0
57.5°	24695.8	24256.5	22880.4	22534.5	23125.3	23914.4	26892.1	28594.7	32178.8	37679.3
60°	25329.4	24886.3	23455.8	23004.8	23813.4	25519.9	29407.2	31117.6	34176.8	39300.2
62.5°	25453.8	25088.4	23914.4	23910.6	24746.3	27393.6	32384.8	33663.7	35922.2	40901.8
65°	23300.3	23070.9	22375.1	23875.6	26083.5	30091.3	35700.6	36921.2	38141.8	42301.2
67.5°	17733.7	17764.8	17714.3	20610.3	25002.9	33966.9	40501.4	40408.1	40882.4	43871.7
70°	8108.8	8291.5	9481.0	14227.4	20031.1	34414.0	48439.2	47230.3	44322.6	45904.7
72.5°	4380.9	4520.9	5006.8	6892.1	12042.7	30596.7	54371.2	55230.3	48897.9	47273.0
75°	3214.8	3292.5	3630.7	4380.9	5057.3	22740.5	52244.8	56653.0	49469.3	44081.6
77.5°	2406.2	2441.2	2717.2	3471.3	2588.9	11988.3	41745.3	46919.3	42347.9	36217.6
80°	1745.4	1784.3	1990.3	2604.5	1815.4	4384.8	28664.7	32932.9	29002.9	23086.5
82.5°	1205.1	1220.6	1310.0	1772.6	1267.2	1702.6	16264.3	19311.9	16190.5	8101.1
85°	726.9	746.4	785.2	1034.0	719.1	808.6	7020.4	7261.4	4839.6	1935.9
87.5°	299.3	318.8	349.9	435.4	283.8	225.5	1158.4	1453.8	905.7	567.5
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°
13263.3	0°	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3	13263.3
13302.2	2.5°	13282.8	13255.6	13181.7	13080.6	12987.3	12870.7	12820.2	12777.4	12738.6	12664.7
13407.2	5°	13364.4	13290.6	13092.3	12835.7	12544.2	12225.4	11914.5	11700.7	11518.0	11381.9
13527.7	7.5°	13488.8	13348.9	12987.3	12462.6	11794.0	11109.8	10491.7	10052.5	9722.0	9601.5
13698.7	10°	13617.1	13449.9	12820.2	11895.0	10740.5	9687.1	8866.8	8415.9	8151.6	8066.1
13900.9	12.5°	13768.7	13523.8	12559.8	11105.9	9562.7	8408.2	7692.9	7428.6	7292.5	7245.9
14149.6	15°	13990.3	13586.0	12167.1	10118.5	8439.3	7475.2	7012.6	6829.9	6760.0	6756.1
14406.2	17.5°	14157.4	13597.7	11556.8	9061.2	7576.3	6911.6	6530.6	6460.6	6507.3	6577.3
14658.9	20°	14344.0	13492.7	10756.1	8097.2	6969.9	6417.9	6258.5	6305.1	6417.9	6518.9
14993.2	22.5°	14476.2	13302.2	9788.1	7346.9	6445.1	6134.1	6126.3	6223.5	6285.7	6336.2
15385.8	25°	14592.8	12979.6	8761.9	6717.2	6013.6	5963.1	6048.6	6017.5	5974.7	6017.5
15778.4	27.5°	14678.3	12470.3	7844.5	6165.2	5710.4	5846.4	5795.9	5725.9	5722.1	5745.4
16241.0	30°	14651.1	11790.1	7090.4	5640.4	5496.6	5628.8	5508.3	5496.6	5484.9	5496.6
16936.8	32.5°	14651.1	11016.5	6511.2	5278.9	5360.5	5310.0	5298.3	5271.1	5224.5	5220.6
17881.4	35°	14732.7	10242.9	6013.6	5084.5	5247.8	5127.3	5135.1	5069.0	4971.8	4925.2
19133.1	37.5°	14899.9	9621.0	5519.9	4991.2	5049.6	5045.7	5014.6	4901.8	4730.8	4583.1
20695.8	40°	15304.2	9438.3	5181.7	4948.5	4956.3	5002.9	4921.3	4703.6	4314.9	4073.9
22281.8	42.5°	15937.8	9745.4	5107.9	4843.5	4894.1	4940.7	4781.3	4276.0	4000.0	3856.2
23945.5	45°	16742.4	10281.8	5267.2	4691.9	4746.3	4828.0	4353.7	4112.7	3988.3	3992.2
25593.7	47.5°	17760.9	10845.5	5562.7	4559.8	4532.6	4579.2	4070.0	3922.2	3751.2	3794.0
27175.9	50°	18938.8	11416.9	5842.6	4380.9	4295.4	4143.8	3887.3	3747.3	3529.6	3428.6
28703.6	52.5°	20213.8	11968.9	5955.3	4163.3	4038.9	3863.9	3762.9	3591.8	3327.5	3160.3
30145.7	55°	21422.7	12470.3	5830.9	3902.8	3782.3	3646.3	3630.7	3525.7	3242.0	3008.7
31428.5	57.5°	22565.6	12890.2	5519.9	3638.5	3521.9	3440.2	3545.2	3494.7	3137.0	2837.7
32641.4	60°	23533.5	13177.8	5069.0	3370.3	3288.6	3245.9	3405.2	3389.7	2989.3	2655.0
33729.8	62.5°	24303.2	13290.6	4571.4	3113.7	3094.3	3016.5	3210.9	3210.9	2802.7	2476.2
34686.1	65°	24905.7	13181.7	4066.1	2861.0	2899.9	2783.3	2973.8	2950.4	2604.5	2316.8
35786.2	67.5°	25438.3	12824.1	3506.3	2612.2	2701.6	2553.9	2725.0	2670.6	2386.8	2157.4
36738.5	70°	25675.4	11992.2	2868.8	2363.5	2472.3	2328.5	2476.2	2375.1	2141.9	1986.4
35692.9	72.5°	23770.6	9966.9	2258.5	2103.0	2196.3	2079.7	2208.0	2091.3	1877.5	1807.6
30822.1	75°	19665.7	7479.1	1737.6	1819.2	1889.2	1799.8	1885.3	1799.8	1605.4	1656.0
22767.7	77.5°	14281.8	5049.6	1329.4	1519.9	1551.0	1504.4	1578.2	1481.0	1306.1	1294.5
11346.9	80°	7102.0	2958.2	1041.8	1201.2	1189.5	1158.4	1243.9	1197.3	1049.6	1111.8
3063.2	82.5°	2056.4	1267.2	758.0	843.5	820.2	828.0	890.2	913.5	1368.3	1356.7
952.4	85°	645.3	497.6	454.8	470.4	447.0	458.7	524.8	1041.8	964.0	563.7
295.4	87.5°	167.2	171.0	112.7	120.5	124.4	147.7	167.2	633.6	303.2	198.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
13263.3
12629.7
11269.2
9391.6
7933.9
7257.5
6771.6
6604.5
6553.9
6363.5
6044.7
5784.2
5539.4
5271.1
4971.8
4633.6
4105.0
3856.2
4011.7
3902.8
3455.8
3156.5
3008.7
2822.2
2643.3
2464.5
2301.3
2141.9
1955.3
1749.3
<i>1512.1</i>
1236.2
1100.1
1387.8
610.3
209.9
0.0

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