

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: P951684

Luminaire Tested: **GALN-SB5D-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951684  
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-SB5D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

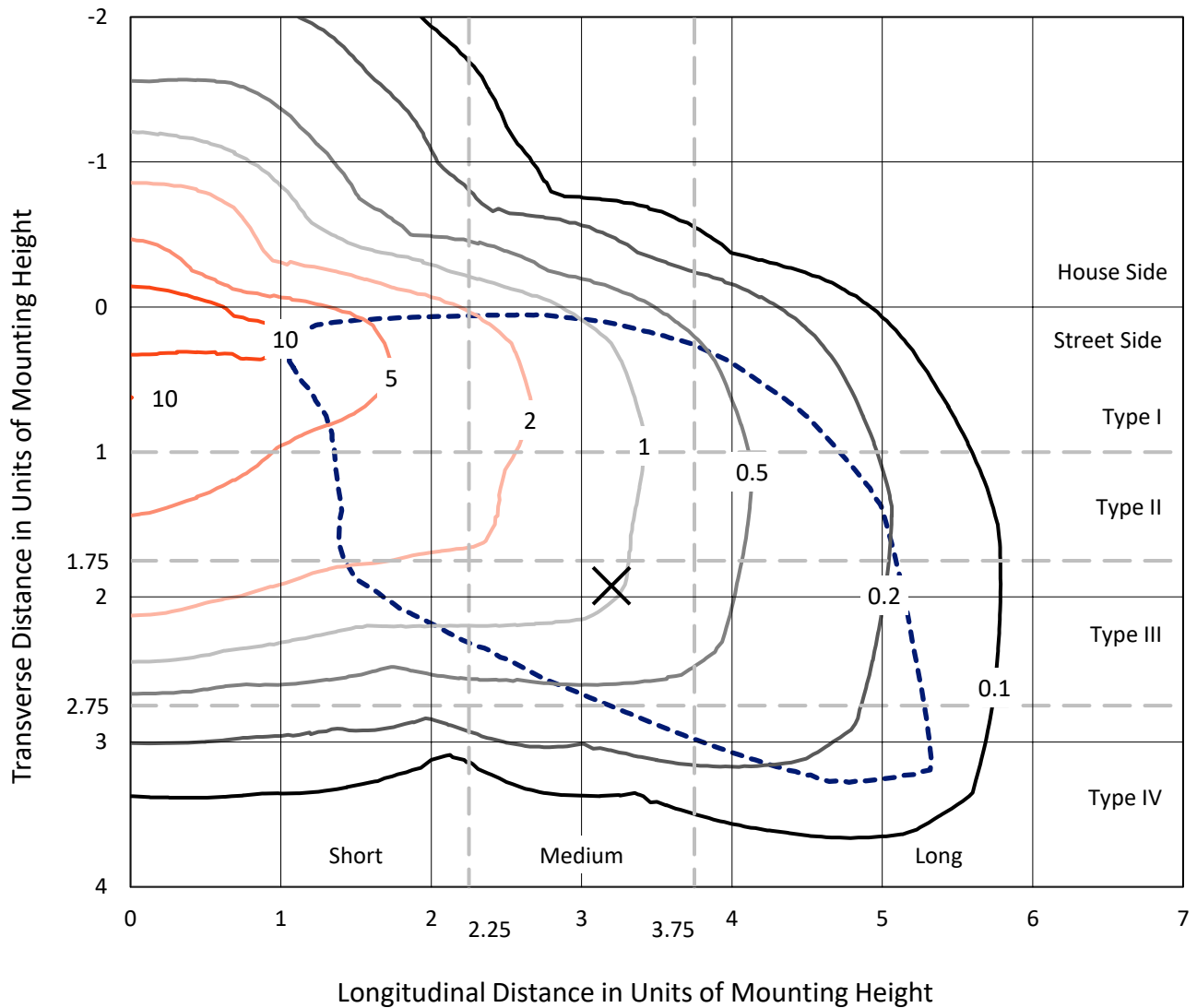
Lumens per Lamp: N/A  
Luminaire Lumens: 50238 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

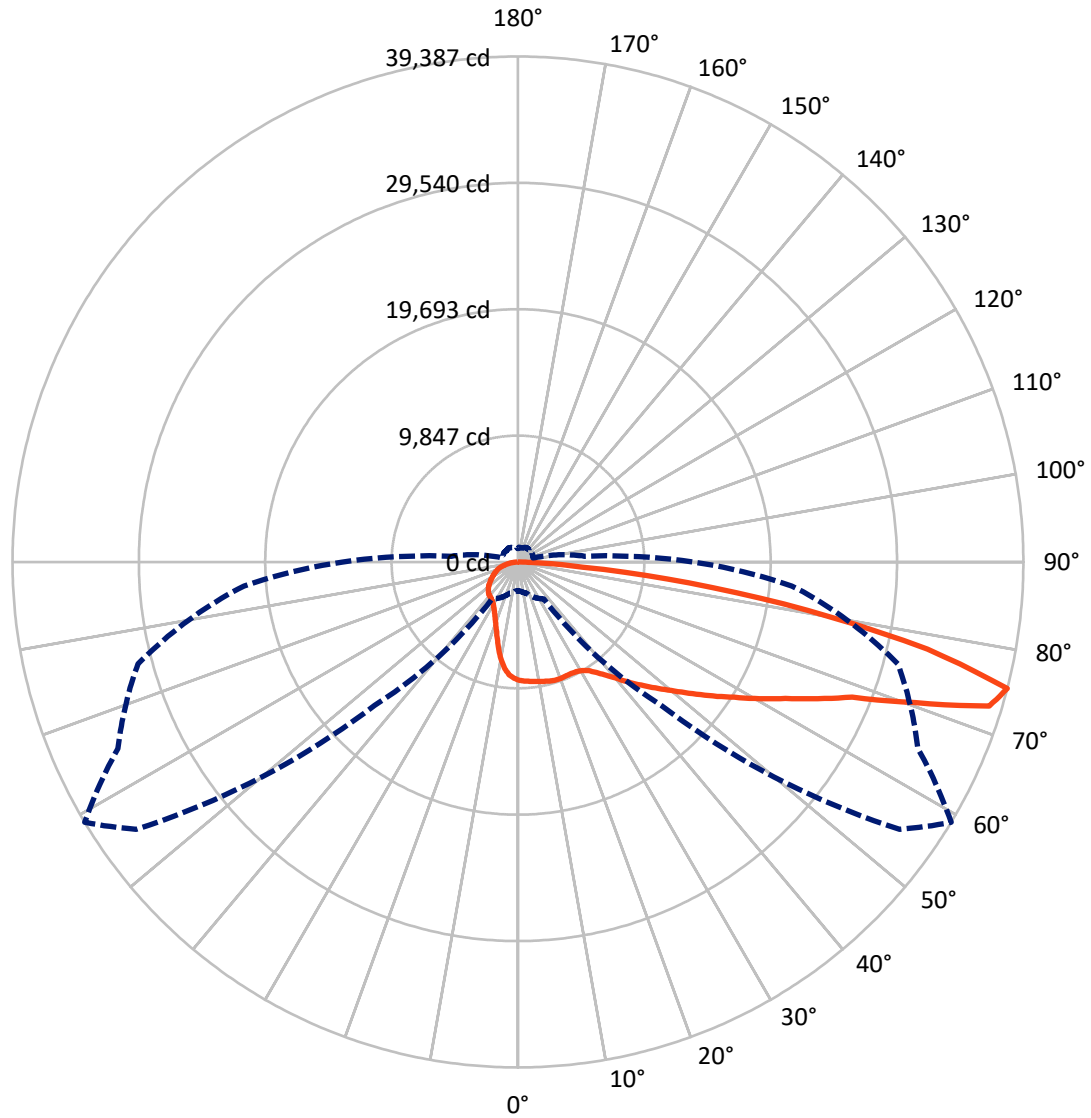
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	9422.5	0.0	9422.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	40815.5	0.0	40815.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	50238.0	0.0	50238.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.8	1.6
10°-20°	2113.4	4.2
20°-30°	3210.1	6.4
30°-40°	4771.7	9.5
40°-50°	7096.4	14.1
50°-60°	9632.5	19.2
60°-70°	11759.7	23.4
70°-80°	9228.8	18.4
80°-90°	1598.7	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°	50238.0	100.0
0°-180°	50238.0	100.0

**Coefficient of Utilization**



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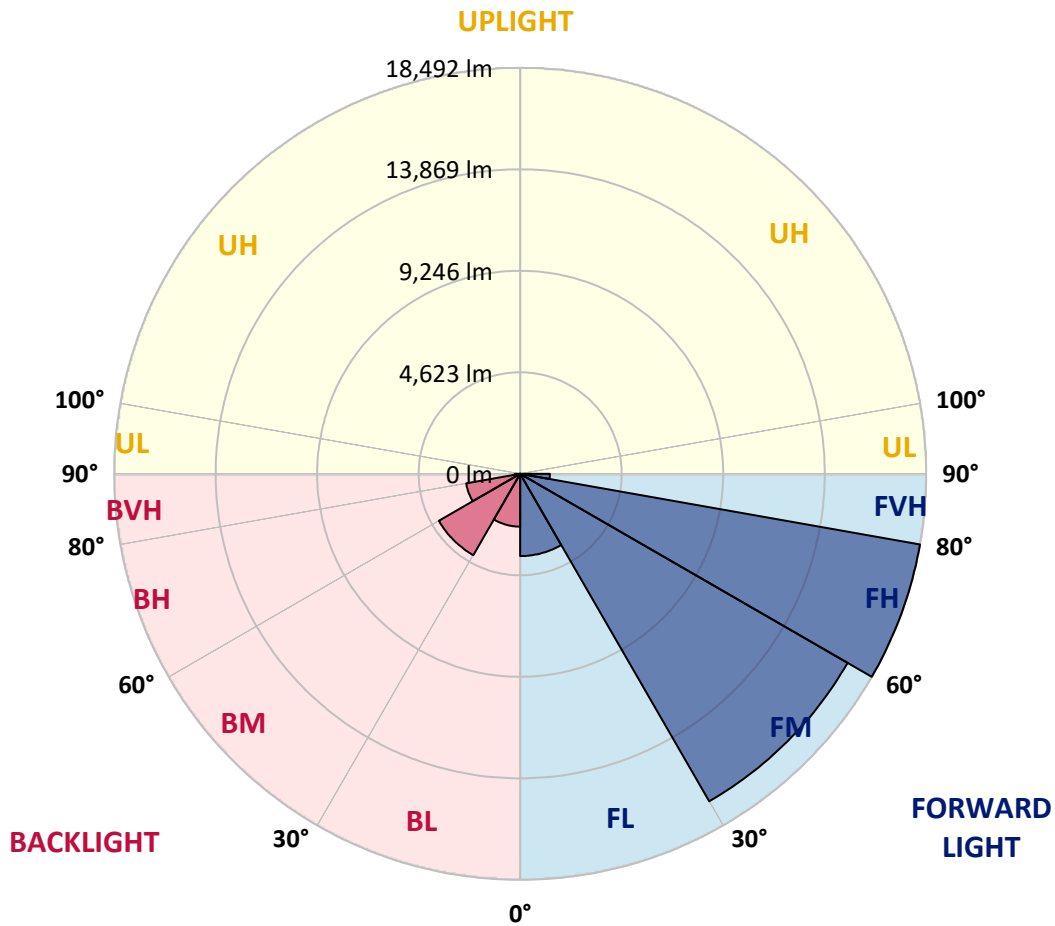
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3745.8	7.5			
FM (30°-60°)	17223.7	34.3			
FH (60°-80°)	18492.1	36.8			G5
FVH (80°-90°)	1353.9	2.7			G5
BL (0°-30°)	2404.5	4.8	B3/2500		
BM (30°-60°)	4276.9	8.5	B3/5000		
BH (60°-80°)	2496.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	244.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1
2.5°	9299.4	9267.0	9299.4	9285.9	9280.5	9269.7	9272.4	9291.3	9280.5	9294.0
5°	9237.3	9218.4	9250.8	9242.7	9277.8	9283.2	9318.4	9340.0	9353.5	9356.2
7.5°	9134.6	9115.7	9161.6	9199.5	9275.1	9296.7	9369.7	9404.8	9423.8	9456.2
10°	8758.9	8750.8	8864.3	9007.6	9185.9	9296.7	9407.5	9467.0	9496.7	9583.2
12.5°	8094.1	8104.9	8253.6	8529.2	8886.0	9242.7	9450.8	9537.3	9583.2	9691.3
15°	7459.0	7456.3	7618.5	7913.0	8413.0	9004.9	9472.4	9621.0	9699.4	9858.9
17.5°	7091.5	7080.7	7194.2	7418.5	7883.3	8640.0	9418.4	9667.0	9834.5	10034.5
20°	7023.9	7002.3	7061.7	7172.5	7502.3	8240.1	9277.8	9667.0	9942.7	10202.1
22.5°	7269.8	7234.7	7210.4	7196.9	7342.8	7910.3	9118.4	9634.6	10102.1	10442.6
25°	7764.4	7710.4	7586.0	7464.4	7421.2	7761.7	8977.8	9626.5	10339.9	10766.9
27.5°	8564.4	8496.8	8245.5	7953.6	7691.4	7837.4	8915.7	9675.1	10602.1	11110.1
30°	9556.2	9483.2	9167.0	8718.4	8248.2	8118.4	8994.1	9818.3	10937.2	11566.9
32.5°	10445.3	10364.2	10094.0	9637.3	9002.2	8604.9	9242.7	10091.3	11464.2	12202.0
35°	11234.5	11139.9	10896.6	10475.1	9926.4	9288.6	9691.3	10575.0	12212.8	13234.3
37.5°	12007.4	11896.6	11631.7	11185.8	10802.1	10199.4	10310.2	11196.6	13207.3	14488.3
40°	12872.2	12712.8	12391.2	11950.6	11577.7	11266.9	11123.7	11958.7	14218.1	15888.2
42.5°	13710.0	13558.7	13174.9	12799.2	12331.7	12242.5	12066.8	12850.6	15323.4	17426.0
45°	14612.6	14431.6	13966.7	13491.1	13196.5	12891.1	12980.3	13742.4	16407.1	18993.5
47.5°	15458.5	15255.8	14707.2	14177.5	14015.4	13437.0	13818.1	14723.4	17534.1	20582.6
50°	15915.3	15715.3	15258.6	14780.2	14653.2	14110.0	14726.2	15801.8	18715.1	22166.2
52.5°	16296.3	16080.1	15482.9	15218.0	15180.2	14842.4	15845.0	17034.1	19896.1	23566.2
55°	16701.7	16461.2	15699.1	15461.2	15634.2	15663.9	17172.0	18431.3	21144.7	24930.9
57.5°	17169.2	16863.9	15907.2	15666.6	16077.4	16626.0	18696.2	19879.9	22371.6	26195.7
60°	17609.8	17301.7	16307.1	15993.6	16555.8	17742.2	20444.7	21633.8	23760.7	27322.7
62.5°	17696.2	17442.2	16626.0	16623.3	17204.4	19044.8	22514.9	23404.0	24974.2	28436.1
65°	16199.0	16039.6	15555.8	16599.0	18134.1	20920.4	24820.1	25668.7	26517.3	29409.1
67.5°	12329.0	12350.6	12315.5	14328.9	17382.7	23614.8	28157.8	28092.9	28422.6	30500.9
70°	5637.5	5764.5	6591.5	9891.3	13926.2	23925.6	33676.4	32835.9	30814.4	31914.3
72.5°	3045.8	3143.1	3480.9	4791.6	8372.5	21271.7	37800.5	38397.7	33995.3	32865.6
75°	2235.0	2289.1	2524.2	3045.8	3516.0	15809.9	36322.2	39386.8	34392.5	30646.8
77.5°	1672.9	1697.2	1889.1	2413.4	1799.9	8334.6	29022.6	32619.7	29441.5	25179.6
80°	1213.4	1240.5	1383.7	1810.7	1262.1	3048.5	19928.5	22895.9	20163.7	16050.4
82.5°	837.8	848.6	910.8	1232.4	881.0	1183.7	11307.4	13426.2	11256.1	5632.1
85°	505.4	518.9	545.9	718.9	500.0	562.1	4880.8	5048.3	3364.7	1345.9
87.5°	208.1	221.6	243.2	302.7	197.3	156.7	805.4	1010.8	629.7	394.6
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°
9221.1	0°	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1	9221.1
9248.1	2.5°	9234.6	9215.7	9164.3	9094.1	9029.2	8948.1	8913.0	8883.3	8856.2	8804.9
9321.1	5°	9291.3	9240.0	9102.2	8923.8	8721.1	8499.5	8283.3	8134.7	8007.6	7913.0
9404.8	7.5°	9377.8	9280.5	9029.2	8664.3	8199.5	7723.9	7294.2	6988.8	6759.1	6675.3
9523.8	10°	9467.0	9350.8	8913.0	8269.8	7467.1	6734.7	6164.5	5851.0	5667.2	5607.8
9664.3	12.5°	9572.4	9402.1	8731.9	7721.2	6648.3	5845.6	5348.3	5164.6	5070.0	5037.5
9837.3	15°	9726.4	9445.4	8459.0	7034.7	5867.2	5197.0	4875.4	4748.4	4699.7	4697.0
10015.6	17.5°	9842.7	9453.5	8034.7	6299.6	5267.3	4805.1	4540.3	4491.6	4524.1	4572.7
10191.3	20°	9972.4	9380.5	7477.9	5629.4	4845.7	4461.9	4351.1	4383.5	4461.9	4532.2
10423.7	22.5°	10064.3	9248.1	6805.0	5107.8	4480.8	4264.6	4259.2	4326.8	4370.0	4405.1
10696.7	25°	10145.3	9023.8	6091.5	4670.0	4180.8	4145.7	4205.2	4183.5	4153.8	4183.5
10969.6	27.5°	10204.8	8669.8	5453.7	4286.2	3970.0	4064.6	4029.5	3980.8	3978.1	3994.4
11291.2	30°	10185.9	8196.8	4929.4	3921.4	3821.4	3913.3	3829.5	3821.4	3813.3	3821.4
11775.0	32.5°	10185.9	7659.0	4526.8	3670.1	3726.8	3691.7	3683.6	3664.6	3632.2	3629.5
12431.7	35°	10242.6	7121.2	4180.8	3534.9	3648.4	3564.7	3570.1	3524.1	3456.6	3424.1
13301.9	37.5°	10358.8	6688.8	3837.6	3470.1	3510.6	3507.9	3486.3	3407.9	3289.0	3186.3
14388.3	40°	10639.9	6561.8	3602.5	3440.3	3445.7	3478.2	3421.4	3270.1	2999.8	2832.3
15491.0	42.5°	11080.4	6775.3	3551.1	3367.4	3402.5	3434.9	3324.1	2972.8	2780.9	2680.9
16647.7	45°	11639.8	7148.2	3661.9	3262.0	3299.8	3356.6	3026.8	2859.3	2772.8	2775.5
17793.5	47.5°	12347.9	7540.1	3867.3	3170.1	3151.2	3183.6	2829.6	2726.9	2608.0	2637.7
18893.5	50°	13166.8	7937.4	4061.9	3045.8	2986.3	2880.9	2702.5	2605.3	2453.9	2383.6
19955.6	52.5°	14053.2	8321.1	4140.3	2894.4	2807.9	2686.3	2616.1	2497.1	2313.4	2197.2
20958.2	55°	14893.7	8669.8	4053.8	2713.4	2629.6	2535.0	2524.2	2451.2	2253.9	2091.8
21850.1	57.5°	15688.3	8961.6	3837.6	2529.6	2448.5	2391.7	2464.7	2429.6	2181.0	1972.9
22693.2	60°	16361.2	9161.6	3524.1	2343.1	2286.4	2256.6	2367.4	2356.6	2078.3	1845.8
23450.0	62.5°	16896.3	9240.0	3178.2	2164.7	2151.2	2097.2	2232.3	2232.3	1948.5	1721.5
24114.8	65°	17315.2	9164.3	2826.9	1989.1	2016.1	1935.0	2067.4	2051.2	1810.7	1610.7
24879.6	67.5°	17685.4	8915.7	2437.7	1816.1	1878.3	1775.6	1894.5	1856.6	1659.4	1499.9
25541.7	70°	17850.3	8337.3	1994.5	1643.1	1718.8	1618.8	1721.5	1651.3	1489.1	1381.0
24814.7	72.5°	16526.0	6929.3	1570.2	1462.1	1526.9	1445.9	1535.0	1454.0	1305.3	1256.7
21428.5	75°	13672.2	5199.7	1208.0	1264.8	1313.4	1251.3	1310.7	1251.3	1116.1	1151.3
15828.8	77.5°	9929.1	3510.6	924.3	1056.7	1078.3	1045.9	1097.2	1029.7	908.1	899.9
7888.7	80°	4937.5	2056.6	724.3	835.1	827.0	805.4	864.8	832.4	729.7	772.9
2129.6	82.5°	1429.6	881.0	527.0	586.5	570.2	575.6	618.9	635.1	951.3	943.2
662.1	85°	448.6	345.9	316.2	327.0	310.8	318.9	364.8	724.3	670.2	391.9
205.4	87.5°	116.2	118.9	78.4	83.8	86.5	102.7	116.2	440.5	210.8	137.8
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>
9221.1
8780.6
7834.7
6529.3
5515.9
5045.6
4707.8
4591.6
4556.5
4424.1
4202.5
4021.4
3851.1
3664.6
3456.6
3221.4
2853.9
2680.9
2789.0
2713.4
2402.6
2194.5
2091.8
1962.0
1837.7
1713.4
1599.9
1489.1
1359.4
1216.1
<i>1051.3</i>
859.4
764.8
964.8
424.3
145.9
0.0

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