

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: P955727

Luminaire Tested: **GALN-SB8C-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-830-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

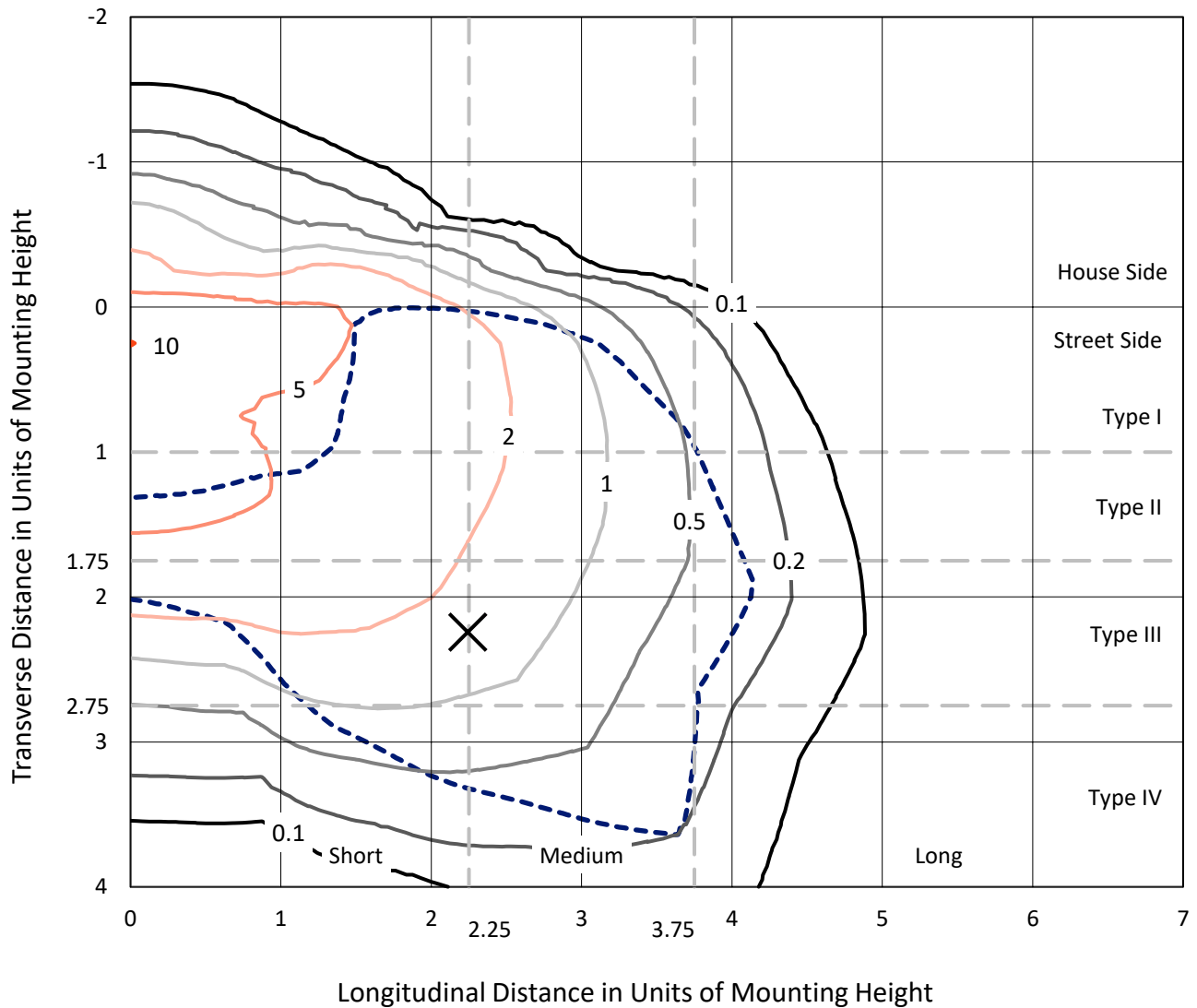
Lumens per Lamp: N/A  
Luminaire Lumens: 41915 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

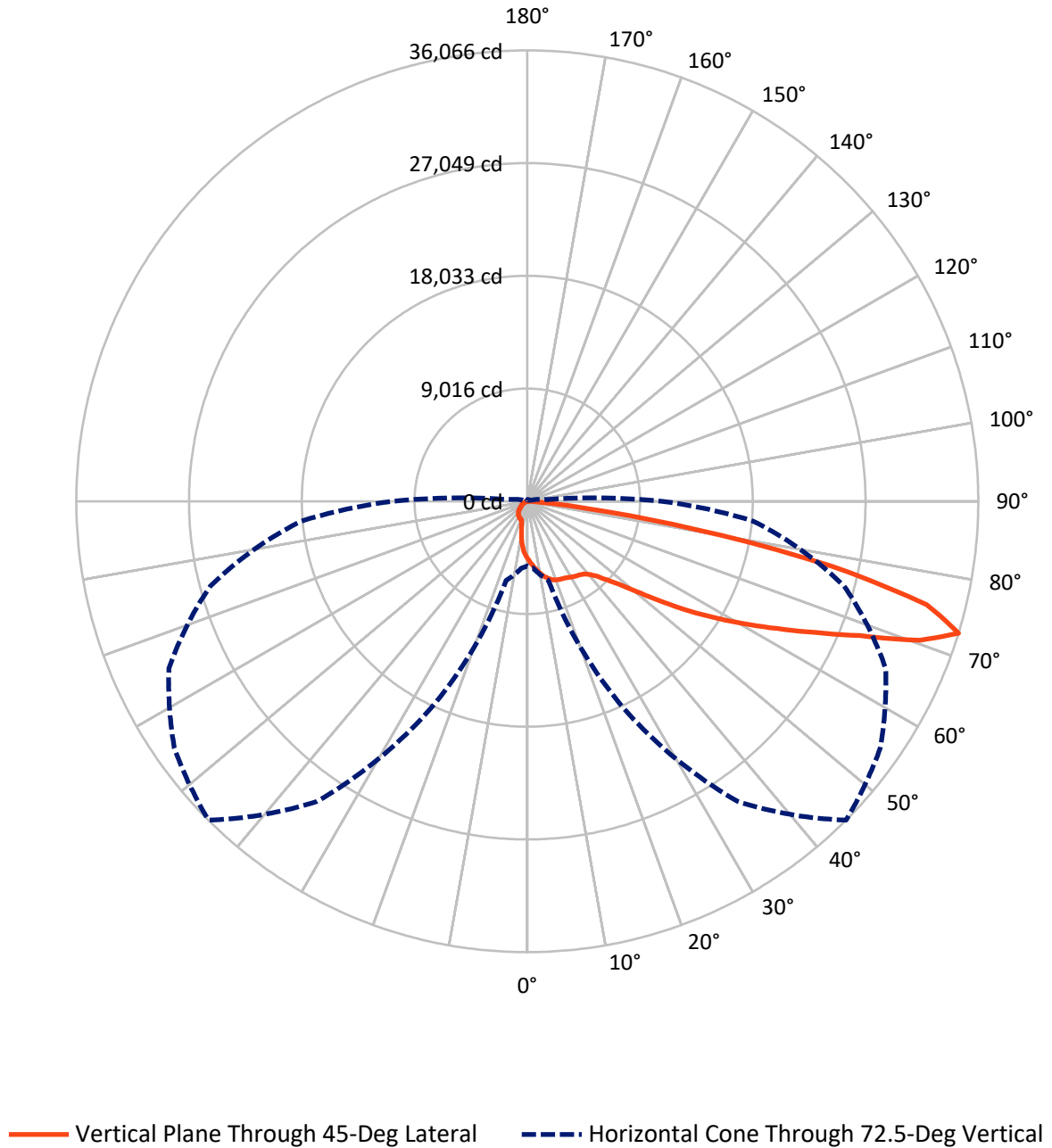
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4404.1	0.0	4404.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	37510.9	0.0	37510.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	41915.0	0.0	41915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.6	1.0
10°-20°	1264.4	3.0
20°-30°	2076.4	5.0
30°-40°	2944.8	7.0
40°-50°	4867.5	11.6
50°-60°	8744.0	20.9
60°-70°	12141.4	29.0
70°-80°	8807.0	21.0
80°-90°	636.7	1.5
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°	41915.0	100.0
0°-180°	41915.0	100.0

**Coefficient of Utilization**



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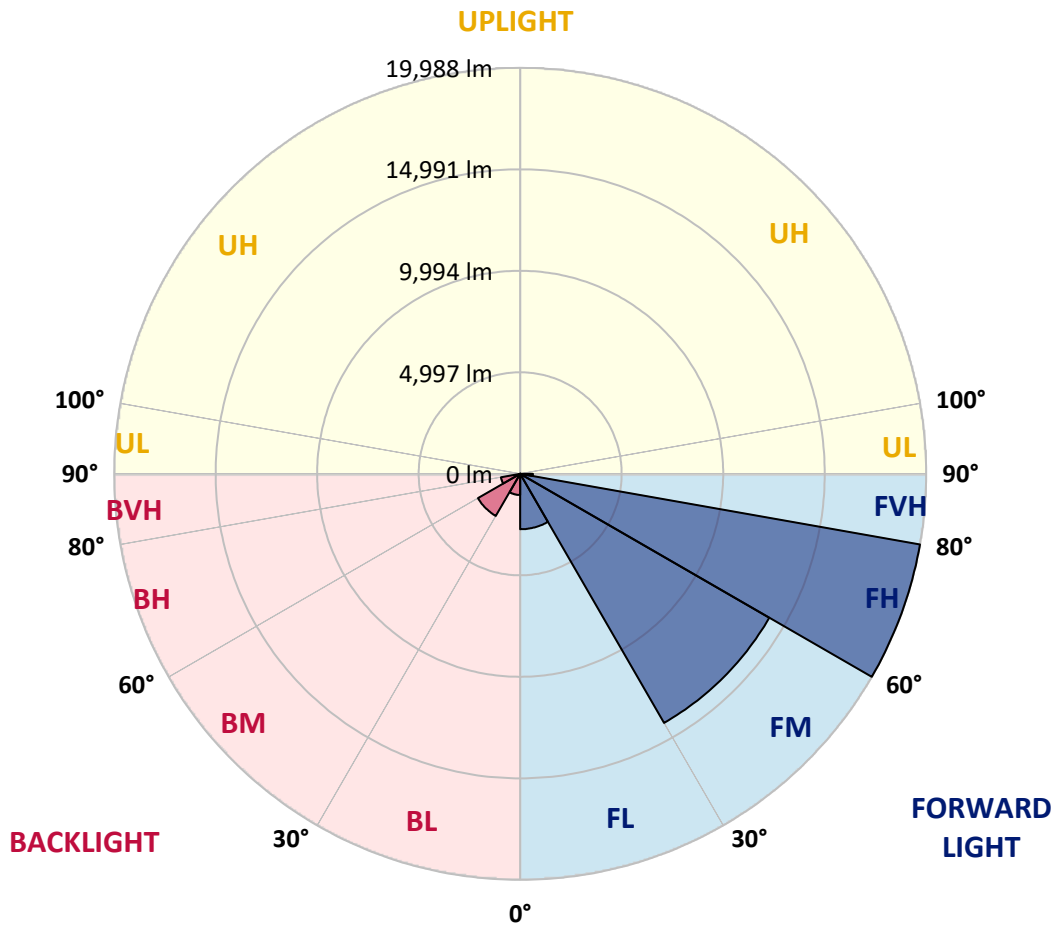
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.3	6.5			
FM (30°-60°)	14161.1	33.8			
FH (60°-80°)	19988.1	47.7			G5
FVH (80°-90°)	631.4	1.5			G4/750
BL (0°-30°)	1043.2	2.5	B3/2500		
BM (30°-60°)	2395.2	5.7	B2/2500		
BH (60°-80°)	960.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9
2.5°	5015.3	5023.9	5018.2	4983.8	4926.6	4895.1	4878.0	4820.8	4783.6	4717.8
5°	5475.9	5510.3	5490.2	5421.6	5312.8	5235.6	5212.7	5095.4	4989.6	4866.5
7.5°	5965.1	5982.3	5945.1	5856.4	5710.5	5578.9	5558.9	5395.8	5227.0	5038.2
10°	6388.6	6408.6	6351.4	6222.6	6056.7	5893.6	5865.0	5684.8	5484.5	5252.8
12.5°	6743.3	6763.4	6689.0	6534.5	6351.4	6182.6	6154.0	5965.1	5744.9	5487.4
15°	7012.3	7049.5	6949.3	6783.4	6586.0	6417.2	6402.9	6216.9	6002.3	5716.2
17.5°	7169.6	7206.8	7112.4	6912.1	6743.3	6600.3	6583.1	6428.6	6228.4	5953.7
20°	7195.4	7229.7	7129.6	6955.0	6814.9	6700.4	6691.8	6580.3	6434.4	6171.1
22.5°	7118.1	7161.0	7069.5	6929.3	6832.0	6771.9	6760.5	6697.6	6614.6	6391.4
25°	7038.0	7072.3	7003.7	6880.7	6829.2	6823.4	6832.0	6820.6	6803.4	6614.6
27.5°	7032.3	7069.5	6992.2	6874.9	6846.3	6906.4	6915.0	6969.4	6983.7	6817.7
30°	7080.9	7106.7	7032.3	6909.3	6895.0	7032.3	7035.2	7132.4	7155.3	6989.4
32.5°	7186.8	7215.4	7141.0	6960.8	6940.7	7132.4	7141.0	7269.8	7307.0	7172.5
35°	7435.7	7470.0	7384.2	7103.8	7032.3	7226.8	7252.6	7404.2	7478.6	7367.0
37.5°	8056.5	7956.4	7839.1	7392.8	7241.1	7375.6	7418.5	7595.9	7727.5	7598.8
40°	9598.6	9283.9	8917.7	7884.9	7607.4	7693.2	7727.5	7904.9	8085.1	7959.3
42.5°	11913.1	11541.2	10951.8	9017.8	8159.5	8202.4	8228.2	8382.7	8637.3	8537.2
45°	13975.9	13841.4	13240.6	10951.8	9192.3	8980.6	9012.1	9092.2	9467.0	9429.8
47.5°	15560.9	15483.6	15020.2	13172.0	10937.5	9933.3	10022.0	10059.2	10599.9	10731.5
50°	16779.7	16751.1	16336.2	15146.0	13217.7	11338.1	11369.5	11289.4	12099.1	12425.2
52.5°	17929.8	18027.1	17720.9	16979.9	15652.4	13177.7	13172.0	12794.3	13887.2	14379.3
55°	18968.3	19002.6	19034.1	18851.0	18101.4	15271.9	15217.6	14599.6	15961.4	16470.7
57.5°	19943.9	19958.2	20238.6	20613.4	20650.6	17520.7	17420.5	16679.5	18227.3	18590.7
60°	20599.1	20664.9	21257.1	22298.5	22753.4	19840.9	19786.6	19031.3	20533.3	20702.1
62.5°	19655.0	20055.5	21548.9	23614.6	24738.9	22412.9	22387.2	21677.7	22959.4	22822.1
65°	15909.9	16588.0	19214.4	24504.3	26687.2	25285.4	25322.6	24567.3	25451.3	25005.0
67.5°	11129.2	11844.5	14951.5	24575.8	28864.5	28658.5	28873.0	27688.6	28097.7	27096.4
70°	7696.0	8065.1	10087.8	23036.6	30561.0	33304.7	33299.0	31522.3	30729.8	28049.1
72.5°	5175.5	5367.2	6551.7	18276.0	29313.6	36065.5	35899.6	34452.0	31616.7	26232.4
75°	2182.9	2323.1	3032.6	10270.9	23191.1	32995.7	32546.5	30446.6	28092.0	20656.3
77.5°	692.4	752.4	1195.9	3676.4	12774.3	24801.9	24326.9	19014.1	18828.1	10362.5
80°	329.0	383.4	672.3	1476.3	5026.7	13489.5	13423.7	8625.9	8099.4	2798.0
82.5°	143.0	168.8	371.9	789.6	2248.7	4812.2	4909.4	2935.4	2429.0	1061.4
85°	45.8	60.1	171.7	363.3	949.8	1195.9	1181.6	698.1	978.5	577.9
87.5°	0.0	0.0	57.2	83.0	97.3	68.7	77.2	60.1	271.8	160.2
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°
4591.9	0°	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9
4649.1	2.5°	4614.8	4569.0	4488.9	4414.5	4348.7	4282.9	4242.8	4185.6	4179.9	4179.9
4723.5	5°	4646.2	4571.9	4428.8	4277.2	4102.6	3936.7	3770.8	3610.6	3559.1	3521.9
4843.6	7.5°	4737.8	4620.5	4394.5	4105.5	3773.6	3410.3	3155.7	2881.0	2775.2	2717.9
5003.9	10°	4869.4	4709.2	4365.9	3859.5	3321.6	2826.7	2463.3	2165.8	2051.3	2002.7
5178.4	12.5°	5015.3	4817.9	4314.4	3553.3	2826.7	2234.4	1879.7	1742.3	1725.2	1725.2
5387.2	15°	5189.8	4949.5	4225.7	3192.9	2308.8	1768.1	1642.2	1647.9	1665.1	1676.5
5590.4	17.5°	5370.1	5089.7	4085.5	2789.5	1851.1	1590.7	1593.6	1602.2	1616.5	1627.9
5810.7	20°	5564.6	5229.9	3899.5	2360.3	1587.8	1539.2	1547.8	1556.4	1567.8	1573.5
6016.6	22.5°	5773.5	5361.5	3679.2	1939.7	1499.2	1496.3	1499.2	1507.7	1522.0	1522.0
6257.0	25°	5996.6	5507.4	3427.5	1633.6	1453.4	1453.4	1459.1	1464.8	1476.3	1476.3
6488.7	27.5°	6225.5	5641.9	3161.4	1473.4	1413.3	1410.5	1410.5	1419.0	1424.8	1427.6
6717.6	30°	6477.3	5799.2	2895.3	1439.1	1381.9	1367.5	1359.0	1364.7	1370.4	1373.3
6957.9	32.5°	6734.8	5950.8	2657.9	1453.4	1350.4	1324.6	1296.0	1290.3	1290.3	1301.7
7206.8	35°	7020.9	6116.8	2474.8	1502.0	1333.2	1261.7	1215.9	1190.2	1193.0	1210.2
7504.4	37.5°	7364.2	6317.1	2340.3	1544.9	1321.8	1190.2	1115.8	1084.3	1064.3	1084.3
7913.5	40°	7813.3	6611.7	2243.0	1579.3	1307.5	1107.2	1007.1	955.6	918.4	929.8
8548.6	42.5°	8474.2	7075.2	2205.8	1582.1	1276.0	1009.9	895.5	826.8	772.5	775.3
9504.2	45°	9401.2	7807.6	2397.5	1544.9	1207.3	904.1	778.2	686.6	652.3	643.7
10931.8	47.5°	10671.5	8874.8	2841.0	1467.7	1107.2	801.1	663.7	586.5	560.8	546.4
12805.8	50°	12373.8	10245.2	3333.0	1381.9	1007.1	703.8	569.3	520.7	503.5	489.2
15028.7	52.5°	14347.8	11635.6	3736.4	1296.0	906.9	618.0	509.3	480.6	466.3	454.9
17174.5	55°	16158.8	12594.0	3713.6	1204.5	809.7	549.3	466.3	449.2	432.0	420.6
19022.7	57.5°	17286.1	12728.5	3061.3	1104.3	698.1	495.0	426.3	414.8	394.8	380.5
20622.0	60°	17803.9	11961.8	2145.7	972.7	586.5	443.5	383.4	377.6	351.9	331.9
22135.4	62.5°	17898.3	10537.0	1430.5	809.7	489.2	394.8	340.5	331.9	297.5	263.2
23365.6	65°	17514.9	8500.0	989.9	632.3	417.7	343.3	291.8	274.7	237.5	203.1
23657.5	67.5°	16301.9	5968.0	689.5	454.9	354.8	271.8	231.7	226.0	197.4	168.8
22169.8	70°	14078.9	3401.7	460.6	340.5	280.4	186.0	183.1	188.8	160.2	137.3
18112.9	72.5°	10794.5	1556.4	286.1	248.9	191.7	125.9	145.9	148.8	123.0	103.0
11300.9	75°	6354.2	666.6	180.2	160.2	97.3	83.0	105.9	108.7	83.0	65.8
4131.3	77.5°	2162.9	251.8	114.4	94.4	48.6	45.8	68.7	68.7	45.8	25.7
829.7	80°	492.1	94.4	57.2	37.2	22.9	20.0	22.9	20.0	11.4	2.9
254.6	82.5°	140.2	37.2	22.9	14.3	8.6	8.6	2.9	0.0	0.0	0.0
88.7	85°	40.1	17.2	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
31.5	87.5°	17.2	2.9	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

(END O

<u>180°</u>
4591.9
4194.2
3539.0
2726.5
2002.7
1725.2
1676.5
1627.9
1576.4
1527.8
1479.1
1430.5
1379.0
1310.3
1218.8
1078.6
924.1
763.9
632.3
537.9
486.4
452.0
414.8
377.6
326.2
246.0
191.7
160.2
125.9
91.6
57.2
20.0
0.0
0.0
0.0
0.0
0.0

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