

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: P955433

Luminaire Tested: **GALN-SB8B-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955433  
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-SB8B-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

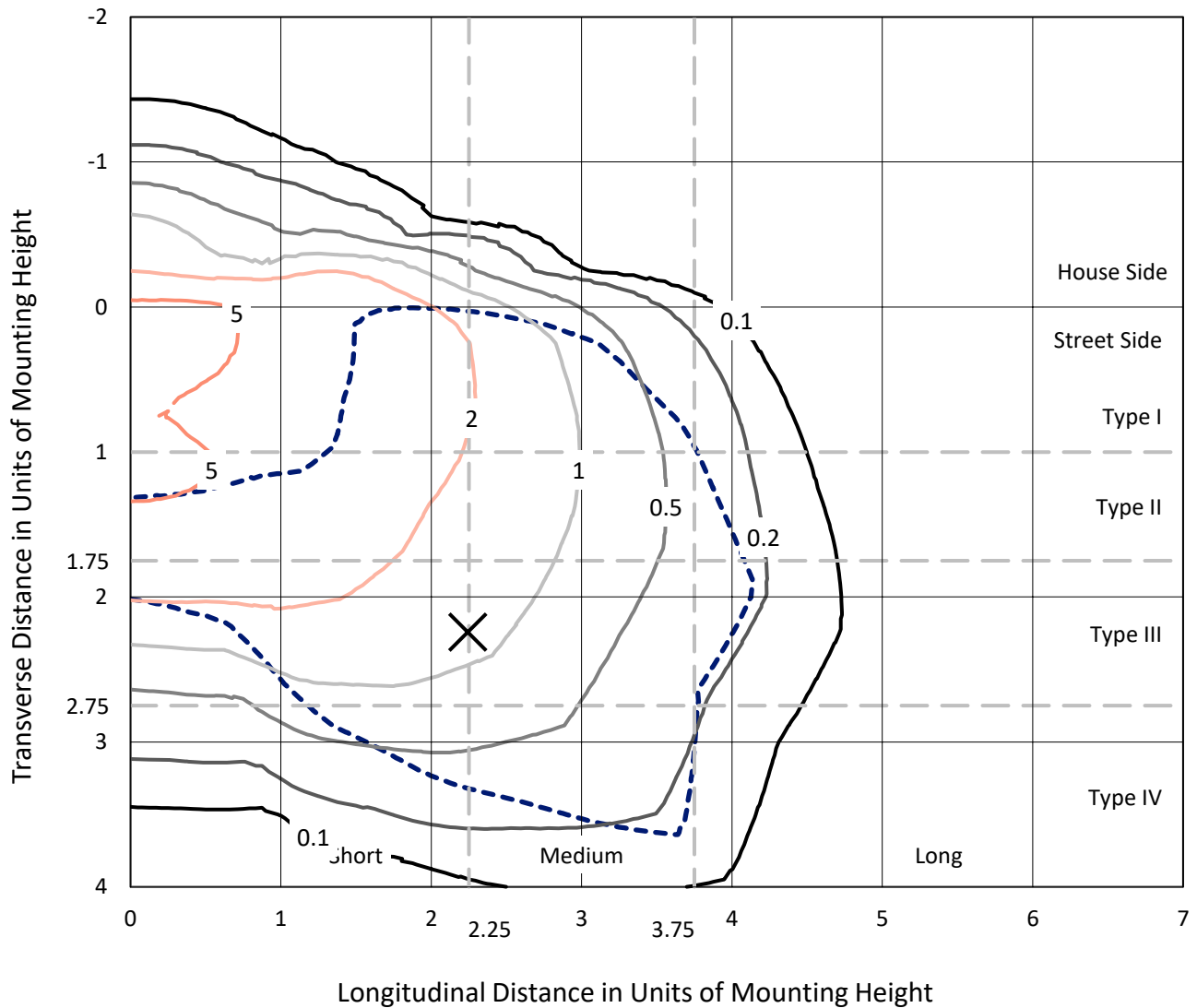
Lumens per Lamp: N/A  
Luminaire Lumens: 33549 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

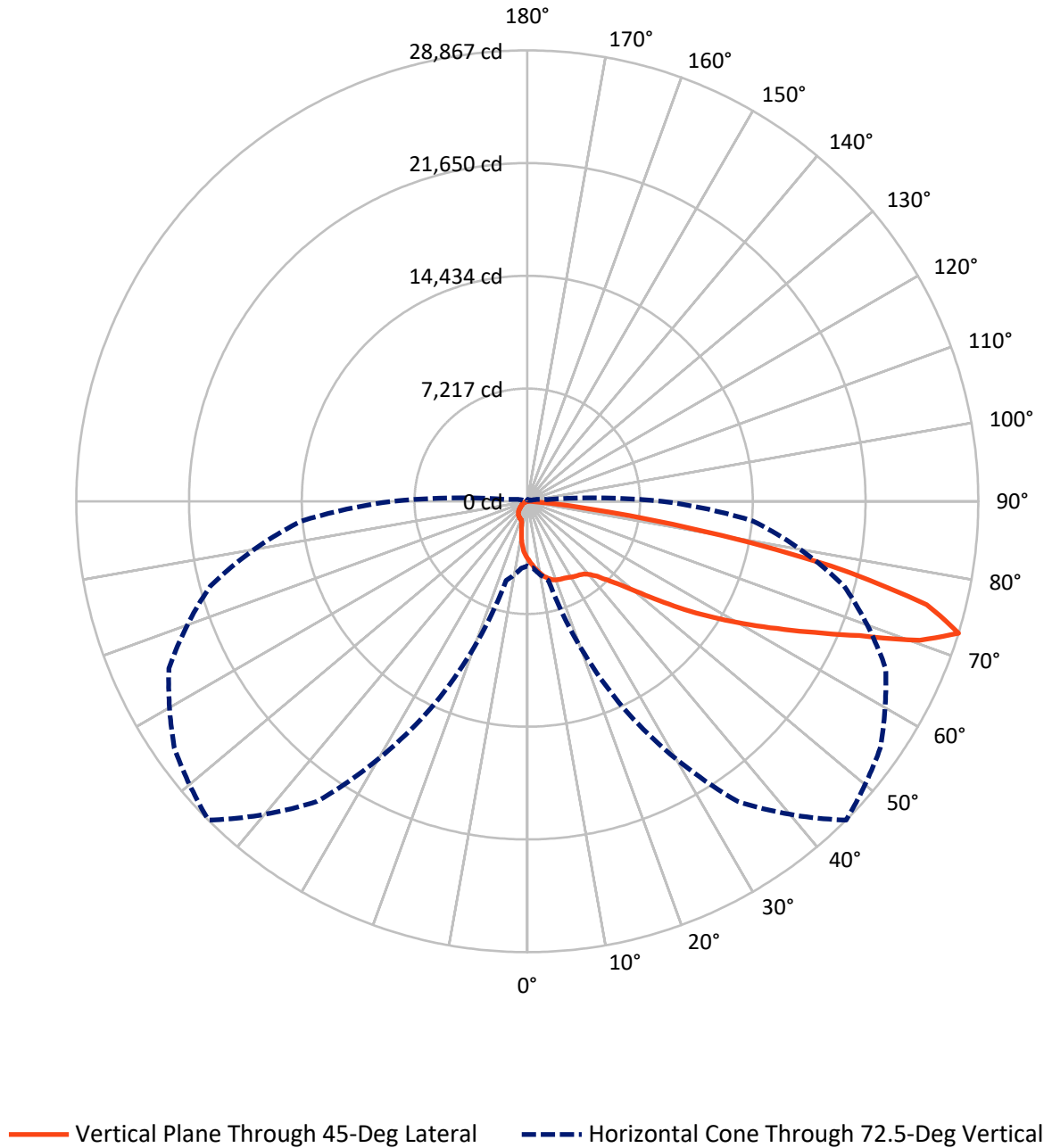
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3525.1	0.0	3525.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	30023.9	0.0	30023.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	33549.0	0.0	33549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.3	1.0
10°-20°	1012.1	3.0
20°-30°	1662.0	5.0
30°-40°	2357.1	7.0
40°-50°	3896.0	11.6
50°-60°	6998.7	20.9
60°-70°	9718.1	29.0
70°-80°	7049.2	21.0
80°-90°	509.6	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°	33549.0	100.0
0°-180°	33549.0	100.0

**Coefficient of Utilization**



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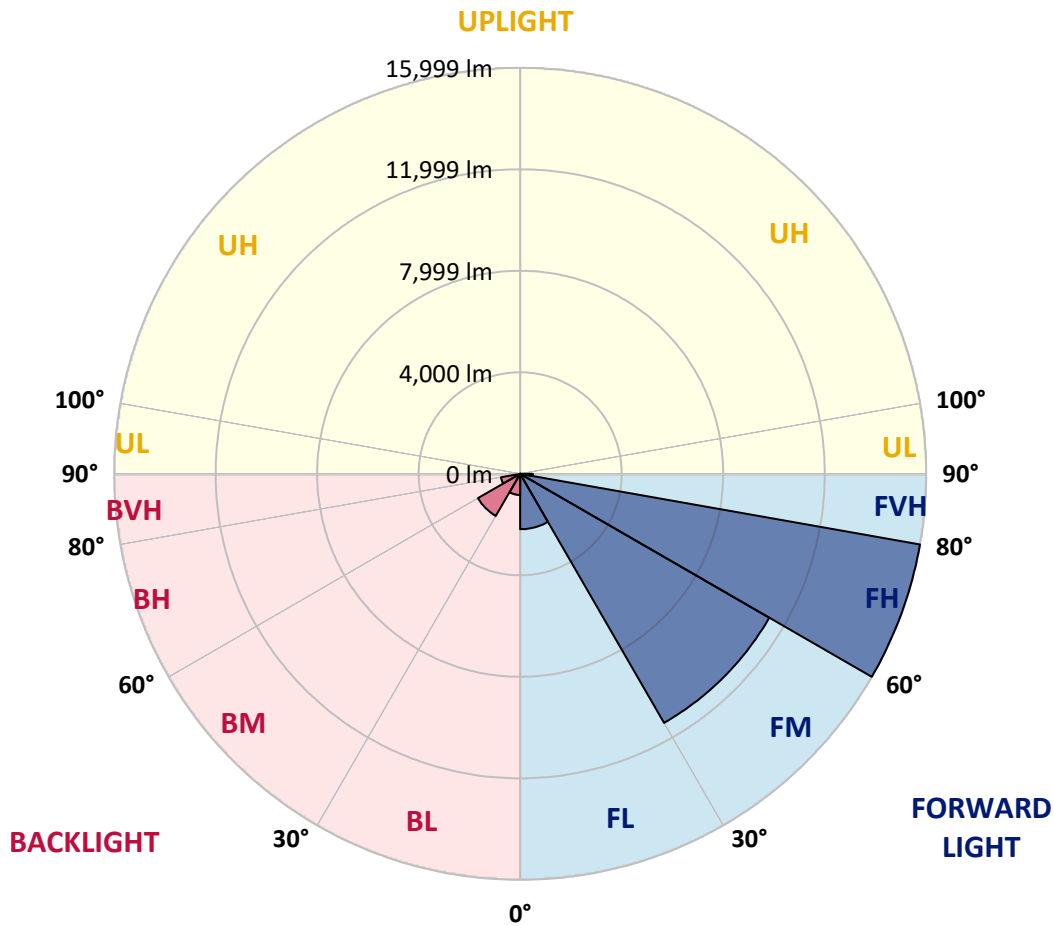
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.4	6.5			
FM (30°-60°)	11334.6	33.8			
FH (60°-80°)	15998.6	47.7			G5
FVH (80°-90°)	505.3	1.5			G4/750
BL (0°-30°)	834.9	2.5	B2/1000		
BM (30°-60°)	1917.1	5.7	B2/2500		
BH (60°-80°)	768.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4
2.5°	4014.3	4021.1	4016.6	3989.1	3943.3	3918.1	3904.4	3858.6	3828.8	3776.1
5°	4383.0	4410.4	4394.4	4339.4	4252.4	4190.6	4172.3	4078.4	3993.7	3895.2
7.5°	4774.5	4788.3	4758.5	4687.5	4570.7	4465.4	4449.4	4318.8	4183.7	4032.6
10°	5113.5	5129.5	5083.7	4980.6	4847.8	4717.3	4694.4	4550.1	4389.8	4204.3
12.5°	5397.4	5413.4	5353.9	5230.2	5083.7	4948.6	4925.7	4774.5	4598.2	4392.1
15°	5612.7	5642.4	5562.3	5429.5	5271.5	5136.4	5124.9	4976.1	4804.3	4575.3
17.5°	5738.6	5768.4	5692.8	5532.5	5397.4	5282.9	5269.2	5145.5	4985.2	4765.4
20°	5759.2	5786.7	5706.5	5566.9	5454.7	5363.1	5356.2	5266.9	5150.1	4939.4
22.5°	5697.4	5731.7	5658.5	5546.3	5468.4	5420.3	5411.1	5360.8	5294.4	5115.7
25°	5633.3	5660.7	5605.8	5507.3	5466.1	5461.5	5468.4	5459.2	5445.5	5294.4
27.5°	5628.7	5658.5	5596.6	5502.7	5479.8	5527.9	5534.8	5578.3	5589.8	5456.9
30°	5667.6	5688.2	5628.7	5530.2	5518.8	5628.7	5631.0	5708.8	5727.2	5594.3
32.5°	5752.3	5775.2	5715.7	5571.4	5555.4	5708.8	5715.7	5818.8	5848.5	5740.9
35°	5951.6	5979.1	5910.4	5685.9	5628.7	5784.4	5805.0	5926.4	5985.9	5896.6
37.5°	6448.5	6368.3	6274.5	5917.2	5795.9	5903.5	5937.8	6079.8	6185.1	6082.1
40°	7682.8	7430.9	7137.8	6311.1	6089.0	6157.7	6185.1	6327.1	6471.4	6370.6
42.5°	9535.3	9237.6	8765.9	7217.9	6530.9	6565.3	6585.9	6709.5	6913.3	6833.2
45°	11186.4	11078.8	10597.9	8765.9	7357.6	7188.1	7213.3	7277.5	7577.4	7547.7
47.5°	12455.0	12393.2	12022.2	10542.9	8754.5	7950.7	8021.7	8051.5	8484.3	8589.6
50°	13430.5	13407.6	13075.6	12123.0	10579.6	9075.1	9100.2	9036.1	9684.2	9945.2
52.5°	14351.1	14429.0	14183.9	13590.8	12528.3	10547.5	10542.9	10240.6	11115.4	11509.3
55°	15182.3	15209.8	15235.0	15088.5	14488.5	12223.7	12180.2	11685.6	12775.6	13183.2
57.5°	15963.2	15974.7	16199.1	16499.1	16528.8	14023.6	13943.5	13350.4	14589.2	14880.1
60°	16487.6	16540.3	17014.3	17847.8	18211.9	15880.8	15837.3	15232.7	16434.9	16570.1
62.5°	15731.9	16052.5	17247.9	18901.2	19801.2	17939.4	17918.8	17350.9	18376.8	18266.9
65°	12734.4	13277.1	15379.3	19613.4	21360.6	20238.5	20268.3	19663.8	20371.4	20014.1
67.5°	8907.9	9480.4	11967.3	19670.6	23103.3	22938.4	23110.1	22162.1	22489.6	21688.1
70°	6160.0	6455.4	8074.4	18438.7	24461.2	26657.3	26652.7	25230.6	24596.3	22450.6
72.5°	4142.5	4295.9	5244.0	14628.2	23462.8	28867.1	28734.3	27575.5	25306.2	20996.5
75°	1747.2	1859.4	2427.3	8220.9	18562.3	26410.0	26050.4	24369.6	22485.0	16533.4
77.5°	554.2	602.3	957.2	2942.6	10224.6	19851.5	19471.4	15219.0	15070.1	8294.2
80°	263.3	306.9	538.1	1181.6	4023.4	10797.1	10744.4	6904.2	6482.8	2239.6
82.5°	114.5	135.1	297.7	632.0	1799.9	3851.7	3929.5	2349.5	1944.2	849.6
85°	36.6	48.1	137.4	290.8	760.3	957.2	945.7	558.7	783.2	462.6
87.5°	0.0	0.0	45.8	66.4	77.9	55.0	61.8	48.1	217.5	128.2
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°
3675.4	0°	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4	3675.4
3721.2	2.5°	3693.7	3657.0	3592.9	3533.4	3480.7	3428.1	3396.0	3350.2	3345.6	3345.6
3780.7	5°	3718.9	3659.3	3544.8	3423.5	3283.8	3151.0	3018.1	2889.9	2848.7	2818.9
3876.9	7.5°	3792.2	3698.3	3517.4	3286.1	3020.4	2729.6	2525.8	2306.0	2221.2	2175.4
4005.1	10°	3897.5	3769.3	3494.5	3089.1	2658.6	2262.5	1971.6	1733.5	1641.9	1603.0
4144.8	12.5°	4014.3	3856.3	3453.2	2844.1	2262.5	1788.4	1504.5	1394.6	1380.8	1380.8
4312.0	15°	4154.0	3961.6	3382.3	2555.6	1848.0	1415.2	1314.4	1319.0	1332.7	1341.9
4474.6	17.5°	4298.2	4073.8	3270.0	2232.7	1481.6	1273.2	1275.5	1282.4	1293.8	1303.0
4650.9	20°	4453.9	4186.0	3121.2	1889.2	1270.9	1232.0	1238.9	1245.7	1254.9	1259.5
4815.8	22.5°	4621.1	4291.4	2944.9	1552.6	1199.9	1197.6	1199.9	1206.8	1218.3	1218.3
5008.1	25°	4799.7	4408.1	2743.4	1307.6	1163.3	1163.3	1167.9	1172.5	1181.6	1181.6
5193.6	27.5°	4982.9	4515.8	2530.4	1179.3	1131.2	1128.9	1128.9	1135.8	1140.4	1142.7
5376.8	30°	5184.4	4641.7	2317.4	1151.8	1106.0	1094.6	1087.7	1092.3	1096.9	1099.2
5569.2	32.5°	5390.5	4763.1	2127.4	1163.3	1080.9	1060.2	1037.3	1032.8	1032.8	1041.9
5768.4	35°	5619.5	4895.9	1980.8	1202.2	1067.1	1009.9	973.2	952.6	954.9	968.6
6006.5	37.5°	5894.3	5056.2	1873.2	1236.6	1058.0	952.6	893.1	867.9	851.9	867.9
6334.0	40°	6253.8	5292.1	1795.3	1264.1	1046.5	886.2	806.1	764.8	735.1	744.2
6842.4	42.5°	6782.8	5663.0	1765.5	1266.3	1021.3	808.4	716.8	661.8	618.3	620.6
7607.2	45°	7524.8	6249.3	1919.0	1236.6	966.4	723.6	622.9	549.6	522.1	515.2
8749.9	47.5°	8541.5	7103.4	2273.9	1174.7	886.2	641.2	531.3	469.4	448.8	437.4
10249.8	50°	9904.0	8200.3	2667.8	1106.0	806.1	563.3	455.7	416.8	403.0	391.6
12029.1	52.5°	11484.1	9313.2	2990.7	1037.3	725.9	494.6	407.6	384.7	373.3	364.1
13746.5	55°	12933.6	10080.3	2972.4	964.1	648.1	439.7	373.3	359.5	345.8	336.6
15225.9	57.5°	13835.9	10188.0	2450.2	883.9	558.7	396.2	341.2	332.0	316.0	304.6
16505.9	60°	14250.3	9574.3	1717.5	778.6	469.4	354.9	306.9	302.3	281.7	265.6
17717.3	62.5°	14325.9	8433.9	1145.0	648.1	391.6	316.0	272.5	265.6	238.2	210.7
18702.0	65°	14019.1	6803.4	792.3	506.1	334.3	274.8	233.6	219.8	190.1	162.6
18935.6	67.5°	13048.1	4776.8	551.9	364.1	284.0	217.5	185.5	180.9	158.0	135.1
17744.8	70°	11268.8	2722.7	368.7	272.5	224.4	148.8	146.6	151.1	128.2	109.9
14497.7	72.5°	8640.0	1245.7	229.0	199.2	153.4	100.8	116.8	119.1	98.5	82.4
9045.3	75°	5086.0	533.6	144.3	128.2	77.9	66.4	84.7	87.0	66.4	52.7
3306.7	77.5°	1731.2	201.5	91.6	75.6	38.9	36.6	55.0	55.0	36.6	20.6
664.1	80°	393.9	75.6	45.8	29.8	18.3	16.0	18.3	16.0	9.2	2.3
203.8	82.5°	112.2	29.8	18.3	11.4	6.9	6.9	2.3	0.0	0.0	0.0
71.0	85°	32.1	13.7	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	13.7	2.3	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>
3675.4
3357.1
2832.7
2182.3
1603.0
1380.8
1341.9
1303.0
1261.8
1222.8
1183.9
1145.0
1103.8
1048.8
975.5
863.3
739.7
611.4
506.1
430.5
389.3
361.8
332.0
302.3
261.1
196.9
153.4
128.2
100.8
73.3
45.8
16.0
0.0
0.0
0.0
0.0
0.0

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