

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: P948581

Luminaire Tested: **GALN-SB3C-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3C-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

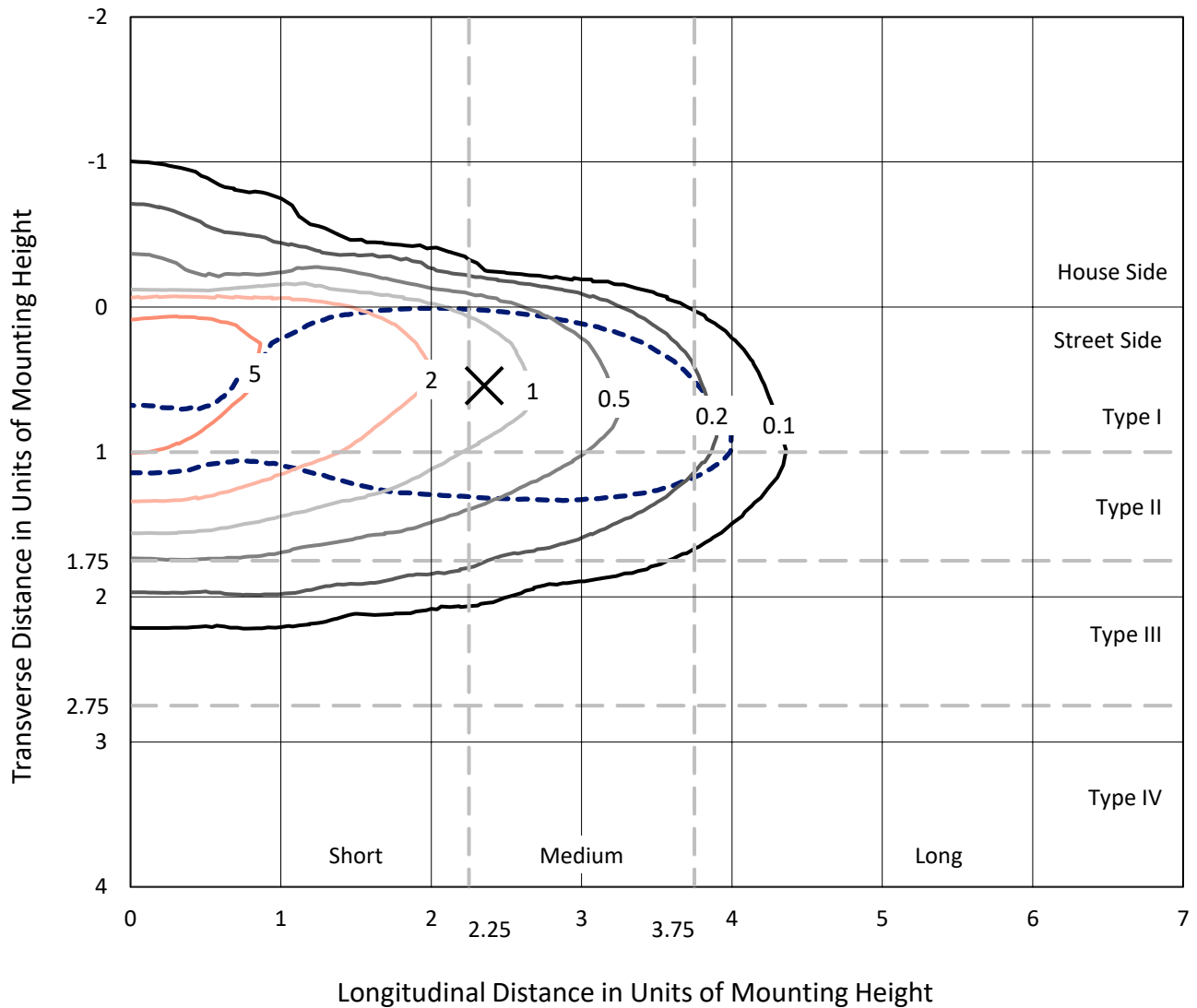
Lumens per Lamp: N/A  
Luminaire Lumens: 17095 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

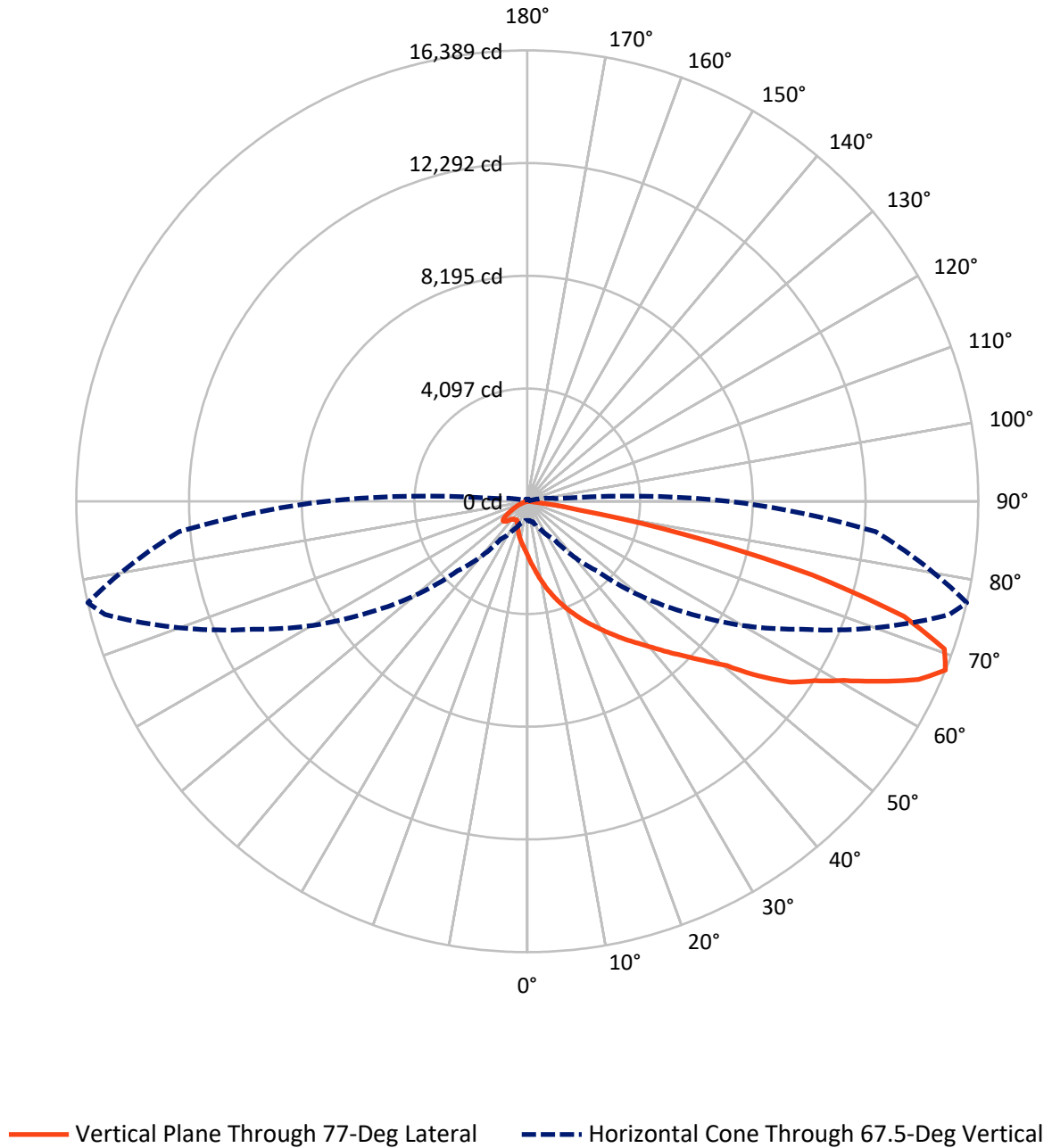
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1257.7	0.0	1257.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	15837.3	0.0	15837.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	17095.0	0.0	17095.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.2
10°-20°	704.6	4.1
20°-30°	1359.7	8.0
30°-40°	2360.5	13.8
40°-50°	3427.3	20.0
50°-60°	3935.8	23.0
60°-70°	3417.0	20.0
70°-80°	1609.4	9.4
80°-90°	79.6	0.5
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°	17095.0	100.0
0°-180°	17095.0	100.0

**Coefficient of Utilization**



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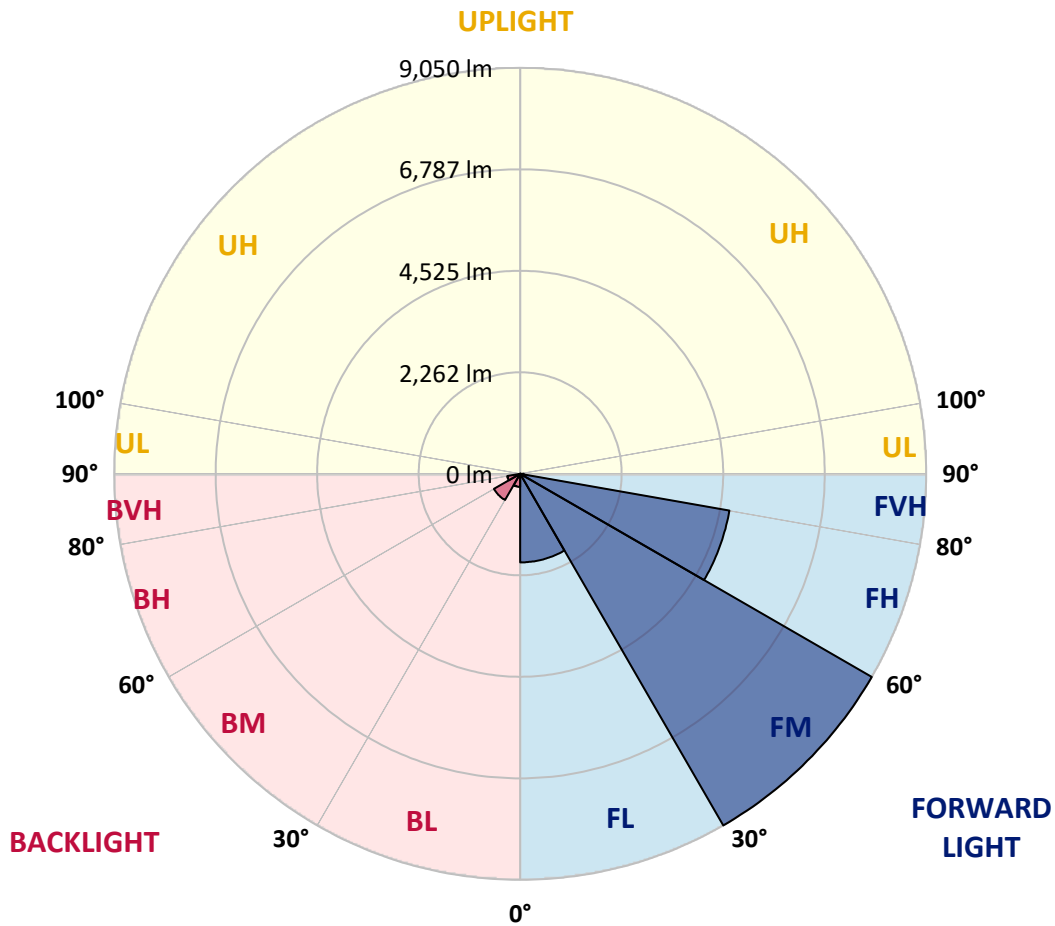
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.3	11.5			
FM (30°-60°)	9049.6	52.9			
FH (60°-80°)	4735.3	27.7			G2/5000
FVH (80°-90°)	78.1	0.5			G1/100
BL (0°-30°)	291.2	1.7	B1/500		
BM (30°-60°)	673.9	3.9	B1/1000		
BH (60°-80°)	291.2	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3
2.5°	2729.3	2746.2	2721.8	2675.1	2605.1	2559.4	2447.9	2342.8	2226.1	2188.9
5°	3326.9	3341.8	3314.2	3263.2	3169.8	3080.6	2934.1	2714.4	2486.2	2412.9
7.5°	3769.6	3778.1	3767.5	3720.7	3631.6	3530.7	3367.2	3107.2	2768.5	2687.9
10°	4088.0	4115.6	4112.5	4094.4	4035.0	3953.2	3779.1	3483.0	3084.9	2980.8
12.5°	4299.3	4330.1	4348.1	4388.5	4385.3	4333.3	4180.4	3867.2	3400.2	3278.1
15°	4360.9	4393.8	4462.8	4556.2	4639.0	4665.5	4558.3	4244.1	3747.3	3591.2
17.5°	4325.8	4376.8	4459.6	4607.1	4788.7	4908.6	4896.9	4608.2	4062.6	3884.2
20°	4403.3	4452.2	4516.9	4641.1	4852.4	5070.0	5157.0	4956.4	4375.7	4188.9
22.5°	4832.2	4823.7	4830.1	4850.2	4976.6	5192.1	5371.5	5272.7	4685.7	4494.6
25°	5511.6	5473.4	5408.6	5299.3	5267.4	5371.5	5558.3	5553.0	5012.7	4807.8
27.5°	6290.8	6284.4	6132.6	5869.3	5720.7	5680.4	5769.5	5825.8	5336.4	5117.7
30°	7037.0	7054.0	6849.1	6556.2	6283.3	6125.2	6044.5	6084.8	5665.5	5452.1
32.5°	7686.7	7704.8	7481.8	7138.9	6801.4	6610.3	6440.4	6340.7	6024.3	5791.8
35°	8235.5	8253.6	7997.7	7618.8	7258.9	7085.9	6893.7	6620.9	6385.2	6168.7
37.5°	8726.0	8720.7	8377.8	7995.6	7642.1	7505.2	7404.3	6965.9	6756.8	6547.7
40°	9015.8	9038.1	8745.1	8323.6	7980.8	7881.0	7874.6	7393.7	7185.7	6982.9
42.5°	9100.7	9140.0	8927.7	8581.6	8270.6	8162.3	8328.9	7856.6	7684.6	7487.1
45°	8947.8	8986.1	8889.4	8649.5	8468.0	8397.9	8719.6	8336.4	8217.5	8022.2
47.5°	8502.0	8549.8	8573.1	8522.2	8520.0	8591.2	9069.9	8841.7	8850.2	8650.6
50°	7638.9	7719.6	7934.1	8114.5	8393.7	8744.0	9410.7	9389.4	9563.5	9391.6
52.5°	6070.0	6184.6	6923.5	7417.1	8044.5	8715.4	9785.4	10268.4	10815.1	10563.5
55°	4877.8	4877.8	5478.7	6402.2	7362.9	8526.4	9948.9	10839.5	11667.5	11608.1
57.5°	3976.6	4024.3	4407.6	5223.9	6376.8	8076.3	10049.7	11198.3	12354.4	12310.8
60°	2454.3	2557.3	3281.3	4087.0	5254.7	7274.8	9986.0	11561.4	13187.7	13222.7
62.5°	1382.1	1420.4	1743.1	2940.5	4085.9	6197.3	9498.8	11764.1	14253.5	14402.1
65°	954.3	973.4	1097.6	1830.1	2832.2	4934.1	8546.6	11637.8	15321.4	15621.8
67.5°	693.2	702.7	780.2	1117.8	1680.4	3577.4	7054.0	11000.9	15887.2	16389.3
70°	532.9	539.3	595.5	734.6	992.6	2208.0	5123.1	9734.4	15477.4	16077.2
72.5°	433.1	439.5	483.0	543.5	658.2	1305.7	3105.0	7905.4	13668.6	14316.1
75°	365.2	373.7	412.9	452.2	515.9	838.6	1456.5	5505.2	10279.0	10703.6
77.5°	202.8	186.8	335.5	374.7	435.2	530.8	681.5	3239.9	5756.8	5874.6
80°	126.3	130.6	266.4	301.5	334.4	267.5	312.1	1247.3	1995.7	1895.9
82.5°	7.4	17.0	204.9	217.6	229.3	114.6	117.8	423.6	480.9	441.6
85°	0.0	0.0	93.4	75.4	79.6	32.9	34.0	98.7	64.8	70.1
87.5°	0.0	0.0	0.0	2.1	0.0	3.2	6.4	8.5	3.2	4.2
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°
1971.3	0°	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3	1971.3
2072.2	2.5°	1997.8	1923.5	1772.8	1625.2	1505.3	1393.8	1314.2	1238.8	1200.6	1198.5
2205.9	5°	2058.4	1902.3	1600.8	1334.4	1119.9	948.0	836.5	756.9	716.5	702.7
2370.4	7.5°	2143.3	1908.7	1450.1	1079.6	827.0	679.4	615.7	590.2	581.7	572.2
2556.2	10°	2250.5	1923.5	1315.3	869.4	651.8	577.5	552.0	541.4	535.0	528.7
2765.3	12.5°	2370.4	1937.3	1181.5	721.9	573.2	535.0	517.0	504.2	495.7	488.3
2979.8	15°	2487.2	1945.8	1042.4	618.9	532.9	502.1	483.0	469.2	457.5	449.0
3190.0	17.5°	2602.9	1957.5	911.9	557.3	500.0	469.2	450.1	433.1	423.6	414.0
3410.8	20°	2731.4	1955.4	788.7	513.8	467.1	436.3	416.1	400.2	390.7	380.0
3644.3	22.5°	2850.3	1944.8	680.5	476.6	433.1	403.4	381.1	365.2	355.6	347.1
3883.2	25°	2987.2	1936.3	590.2	442.7	401.3	371.5	347.1	332.3	321.7	314.2
4123.1	27.5°	3118.8	1923.5	524.4	411.9	370.5	341.8	318.5	301.5	291.9	286.6
4370.4	30°	3248.4	1920.4	500.0	382.2	342.9	314.2	290.9	274.9	267.5	265.4
4642.2	32.5°	3404.4	1928.8	510.6	371.5	317.4	288.7	266.4	254.8	247.3	247.3
4944.7	35°	3571.1	1926.7	526.5	381.1	300.4	263.3	246.3	238.8	231.4	231.4
5280.2	37.5°	3780.2	1929.9	539.3	397.0	294.1	242.0	232.5	222.9	218.7	218.7
5647.5	40°	4092.3	2035.0	532.9	410.8	291.9	227.2	208.1	204.9	201.7	201.7
6062.5	42.5°	4474.4	2263.2	541.4	411.9	290.9	216.6	191.1	197.4	190.0	189.0
6530.7	45°	4892.7	2512.7	595.5	389.6	289.8	211.2	182.6	190.0	178.3	178.3
7073.1	47.5°	5307.8	2760.0	650.7	357.7	286.6	210.2	175.2	170.9	167.7	168.8
7780.1	50°	5879.9	2961.7	672.0	314.2	279.2	208.1	161.4	162.4	160.3	162.4
8776.9	52.5°	6503.1	3004.2	646.5	265.4	258.0	201.7	151.8	156.0	155.0	157.1
9478.6	55°	6891.6	2958.5	534.0	220.8	225.0	176.2	142.2	150.7	150.7	150.7
10164.4	57.5°	7292.9	2764.3	379.0	179.4	186.8	144.4	133.8	145.4	144.4	143.3
10990.3	60°	7581.6	2450.1	249.5	147.6	148.6	118.9	124.2	136.9	135.9	130.6
11841.6	62.5°	7797.1	2102.9	160.3	125.3	113.6	107.2	113.6	124.2	120.0	108.3
12563.5	65°	7772.7	1622.1	123.1	107.2	93.4	93.4	98.7	108.3	95.5	76.4
12701.5	67.5°	7319.4	1097.6	101.9	90.2	78.6	77.5	81.7	90.2	81.7	64.8
11994.5	70°	6509.4	717.6	81.7	70.1	62.6	57.3	65.8	77.5	69.0	52.0
10211.1	72.5°	5283.4	437.4	61.6	51.0	45.6	37.2	52.0	63.7	55.2	38.2
7100.7	75°	3418.2	222.9	42.5	32.9	24.4	22.3	38.2	47.8	38.2	23.4
3150.7	77.5°	1307.8	93.4	23.4	14.9	12.7	10.6	21.2	28.7	15.9	5.3
610.4	80°	251.6	39.3	11.7	7.4	6.4	4.2	3.2	2.1	0.0	0.0
108.3	82.5°	43.5	12.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
21.2	85°	14.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.4	87.5°	5.3	0.0	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>
1971.3
1196.4
700.6
570.1
526.5
486.2
448.0
412.9
379.0
346.1
313.2
286.6
264.3
247.3
231.4
218.7
201.7
187.9
178.3
168.8
162.4
157.1
150.7
143.3
130.6
106.2
74.3
62.6
49.9
36.1
20.2
4.2
0.0
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0.0

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