

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: P948560

Luminaire Tested: **GALN-SB3C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948560  
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-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

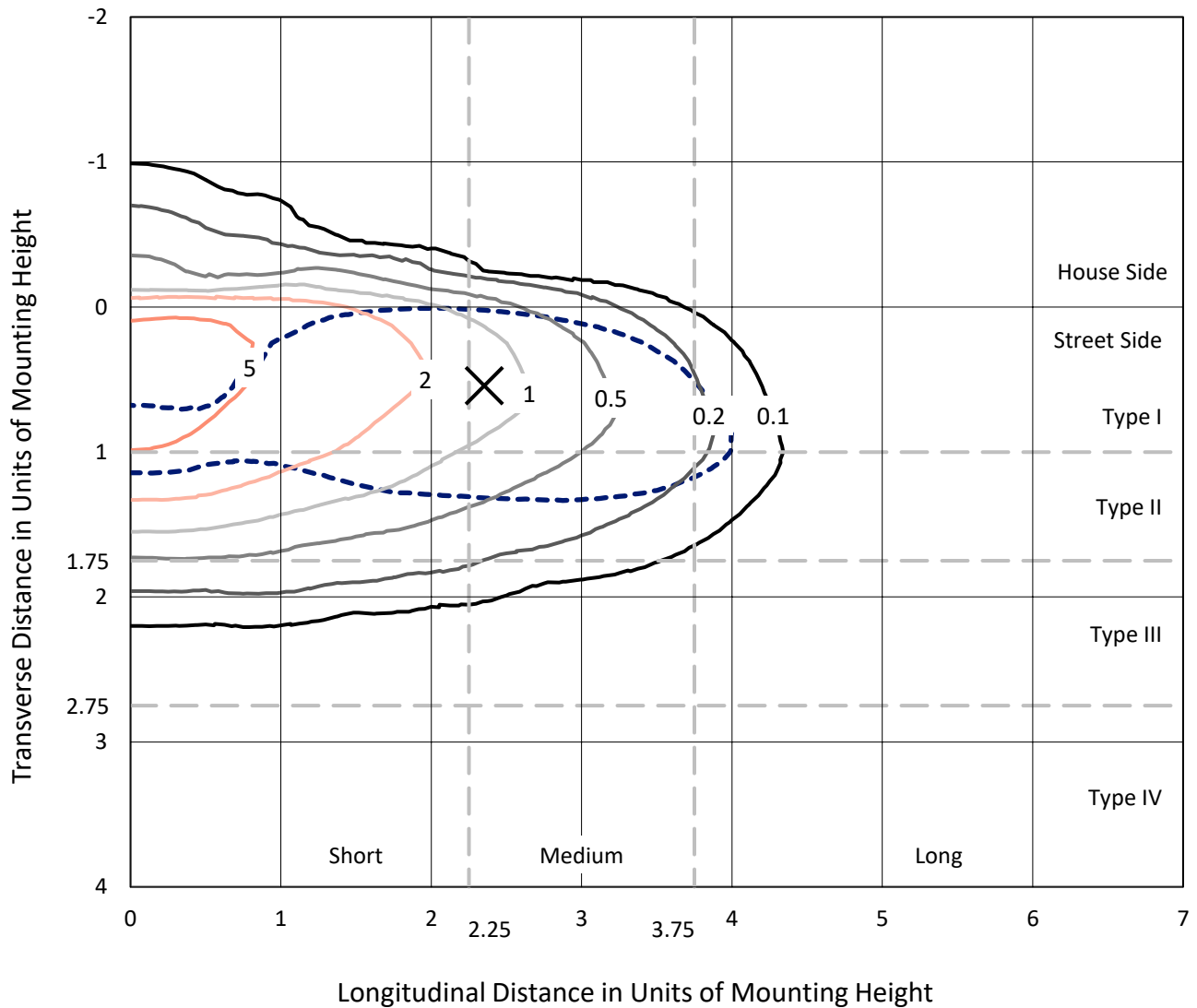
Lumens per Lamp: N/A  
Luminaire Lumens: 16543 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

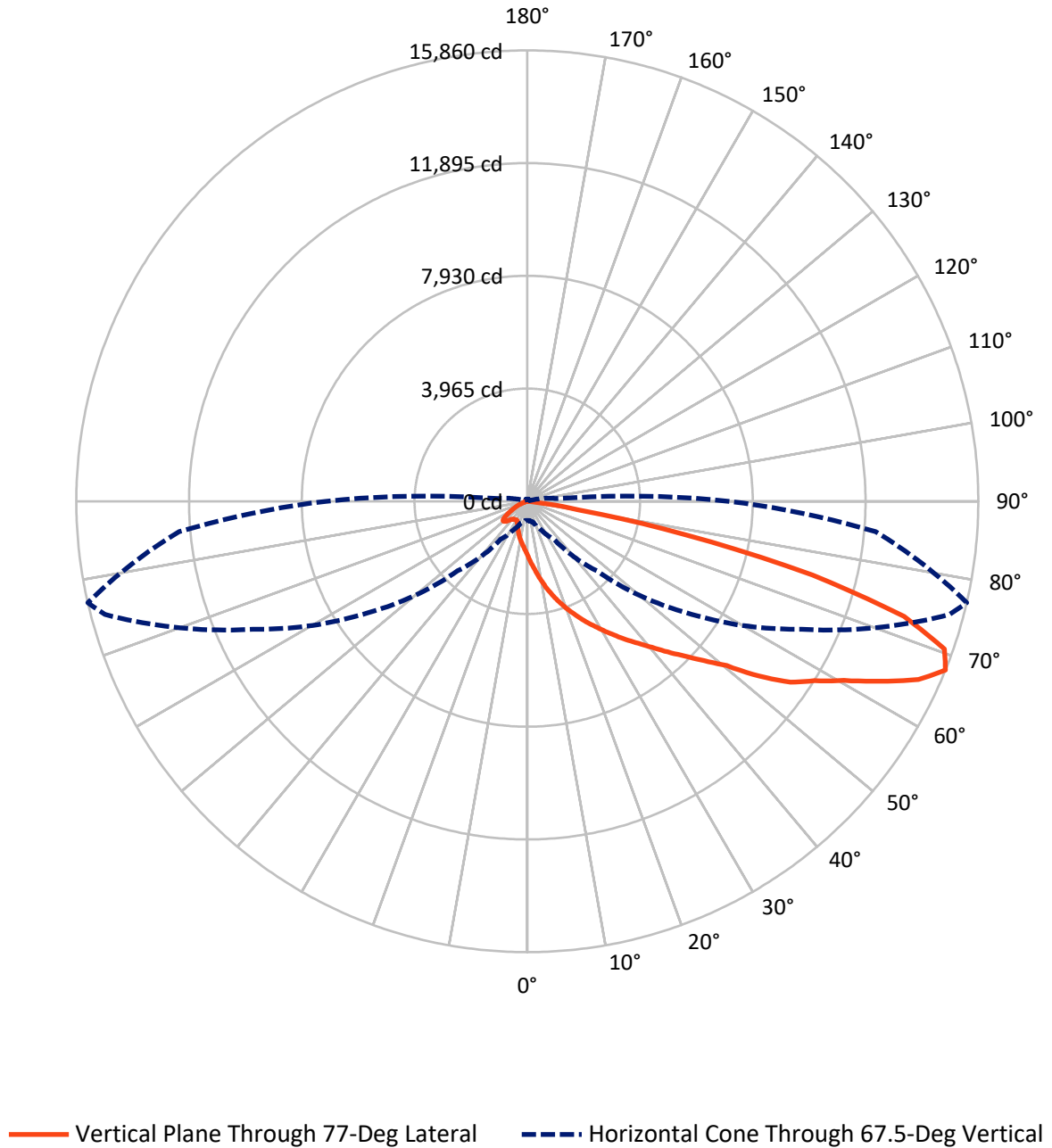
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	1217.1	0.0	1217.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	15325.9	0.0	15325.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	16543.0	0.0	16543.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.7	1.2
10°-20°	681.8	4.1
20°-30°	1315.8	8.0
30°-40°	2284.2	13.8
40°-50°	3316.6	20.0
50°-60°	3808.7	23.0
60°-70°	3306.7	20.0
70°-80°	1557.5	9.4
80°-90°	77.0	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°	16543.0	100.0
0°-180°	16543.0	100.0

**Coefficient of Utilization**



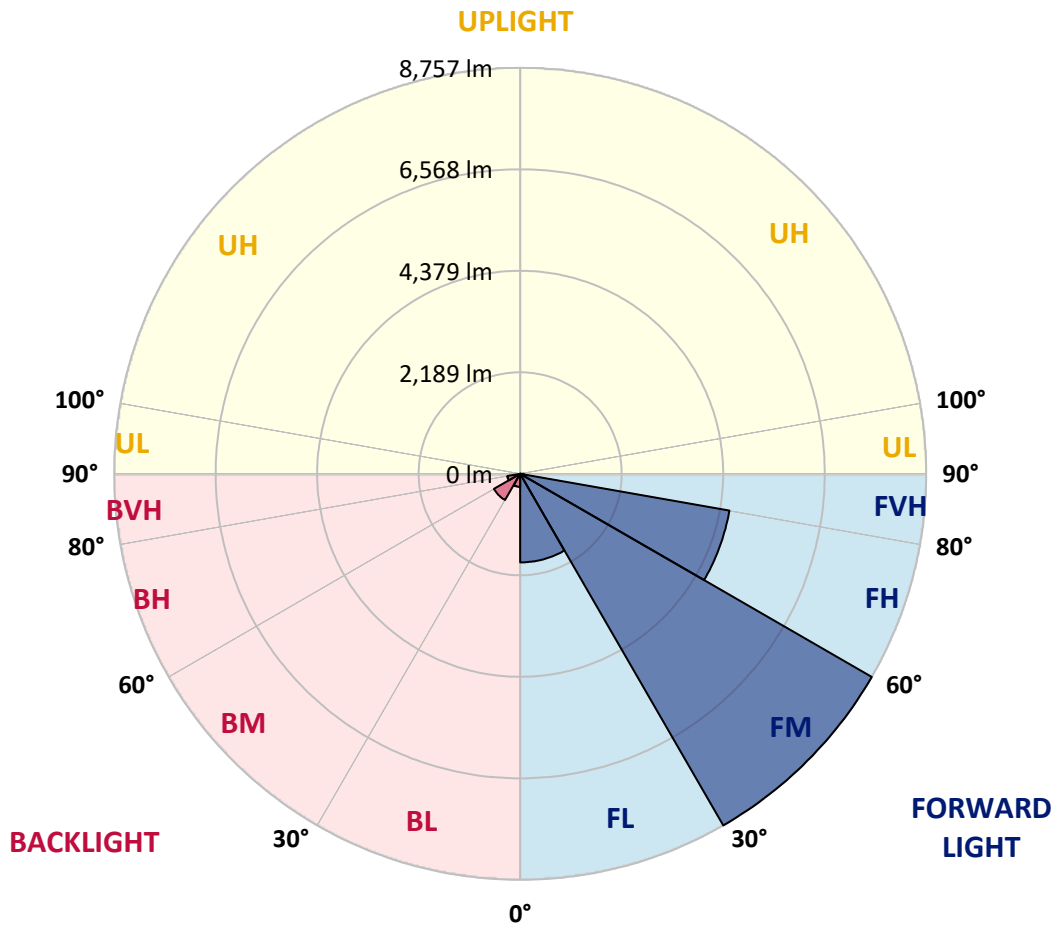
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.5	11.5			
FM (30°-60°)	8757.4	52.9			
FH (60°-80°)	4582.4	27.7			G2/5000
FVH (80°-90°)	75.6	0.5			G1/100
BL (0°-30°)	281.8	1.7	B1/500		
BM (30°-60°)	652.1	3.9	B1/1000		
BH (60°-80°)	281.8	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7
2.5°	2641.1	2657.6	2633.9	2588.7	2520.9	2476.8	2368.9	2267.2	2154.2	2118.2
5°	3219.5	3233.9	3207.2	3157.8	3067.4	2981.2	2839.4	2626.7	2405.9	2335.0
7.5°	3647.9	3656.1	3645.8	3600.6	3514.3	3416.7	3258.5	3006.8	2679.1	2601.1
10°	3956.0	3982.7	3979.7	3962.2	3904.7	3825.6	3657.1	3370.5	2985.3	2884.6
12.5°	4160.5	4190.3	4207.7	4246.8	4243.7	4193.3	4045.4	3742.4	3290.4	3172.2
15°	4220.0	4251.9	4318.7	4409.1	4489.2	4514.9	4411.1	4107.0	3626.3	3475.3
17.5°	4186.1	4235.5	4315.6	4458.4	4634.0	4750.1	4738.8	4459.4	3931.4	3758.8
20°	4261.1	4308.4	4371.1	4491.2	4695.7	4906.3	4990.5	4796.4	4234.4	4053.6
22.5°	4676.2	4667.9	4674.1	4693.6	4815.9	5024.4	5198.0	5102.5	4534.4	4349.5
25°	5333.6	5296.6	5234.0	5128.2	5097.3	5198.0	5378.8	5373.7	4850.8	4652.5
27.5°	6087.6	6081.5	5934.6	5679.8	5536.0	5497.0	5583.2	5637.7	5164.1	4952.5
30°	6809.8	6826.2	6628.0	6344.5	6080.4	5927.4	5849.3	5888.3	5482.6	5276.1
32.5°	7438.5	7456.0	7240.2	6908.4	6581.8	6396.8	6232.5	6135.9	5829.8	5604.8
35°	7969.6	7987.1	7739.5	7372.8	7024.5	6857.1	6671.1	6407.1	6179.1	5969.5
37.5°	8444.2	8439.1	8107.3	7737.4	7395.4	7262.8	7165.2	6741.0	6538.6	6336.2
40°	8724.7	8746.2	8462.7	8054.9	7723.1	7626.5	7620.3	7155.0	6953.6	6757.4
42.5°	8806.8	8844.8	8639.4	8304.5	8003.5	7898.7	8060.0	7602.9	7436.4	7245.4
45°	8658.9	8695.9	8602.4	8370.2	8194.6	8126.8	8438.0	8067.2	7952.1	7763.1
47.5°	8227.5	8273.7	8296.3	8247.0	8244.9	8313.7	8777.0	8556.2	8564.4	8371.3
50°	7392.3	7470.3	7677.9	7852.5	8122.7	8461.7	9106.8	9086.3	9254.7	9088.3
52.5°	5874.0	5984.9	6699.9	7177.6	7784.7	8433.9	9469.4	9936.8	10465.9	10222.4
55°	4720.3	4720.3	5301.8	6195.5	7125.2	8251.1	9627.6	10489.5	11290.8	11233.3
57.5°	3848.2	3894.4	4265.2	5055.2	6170.8	7815.5	9725.2	10836.7	11955.4	11913.3
60°	2375.1	2474.7	3175.3	3955.0	5085.0	7039.9	9663.6	11188.1	12761.8	12795.7
62.5°	1337.5	1374.5	1686.8	2845.6	3954.0	5997.2	9192.1	11384.3	13793.2	13937.1
65°	923.5	942.0	1062.2	1771.0	2740.8	4774.8	8270.6	11262.0	14826.7	15117.4
67.5°	670.8	680.1	755.0	1081.7	1626.2	3461.9	6826.2	10645.7	15374.2	15860.1
70°	515.7	521.9	576.3	710.9	960.5	2136.7	4957.6	9420.1	14977.7	15558.1
72.5°	419.1	425.3	467.4	526.0	636.9	1263.5	3004.8	7650.1	13227.2	13853.8
75°	353.4	361.6	399.6	437.6	499.3	811.5	1409.4	5327.5	9947.1	10358.0
77.5°	196.2	180.8	324.6	362.6	421.2	513.6	659.5	3135.2	5570.9	5684.9
80°	122.2	126.4	257.8	291.7	323.6	258.9	302.0	1207.0	1931.3	1834.7
82.5°	7.2	16.4	198.3	210.6	221.9	110.9	114.0	409.9	465.4	427.3
85°	0.0	0.0	90.4	72.9	77.0	31.8	32.9	95.5	62.7	67.8
87.5°	0.0	0.0	0.0	2.1	0.0	3.1	6.2	8.2	3.1	4.1
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°
1907.7	0°	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7	1907.7
2005.2	2.5°	1933.3	1861.4	1715.6	1572.8	1456.7	1348.8	1271.8	1198.8	1161.8	1159.8
2134.7	5°	1991.9	1840.9	1549.1	1291.3	1083.8	917.4	809.5	732.4	693.4	680.1
2293.9	7.5°	2074.1	1847.0	1403.3	1044.7	800.2	657.5	595.8	571.2	562.9	553.7
2473.7	10°	2177.8	1861.4	1272.8	841.3	630.7	558.8	534.2	523.9	517.7	511.6
2676.1	12.5°	2293.9	1874.8	1143.4	698.5	554.7	517.7	500.3	488.0	479.7	472.5
2883.6	15°	2406.9	1883.0	1008.8	598.9	515.7	485.9	467.4	454.1	442.8	434.5
3087.0	17.5°	2518.9	1894.3	882.4	539.3	483.8	454.1	435.6	419.1	409.9	400.6
3300.6	20°	2643.2	1892.2	763.3	497.2	452.0	422.2	402.7	387.3	378.0	367.8
3526.6	22.5°	2758.2	1882.0	658.5	461.2	419.1	390.4	368.8	353.4	344.1	335.9
3757.8	25°	2890.8	1873.8	571.2	428.4	388.3	359.5	335.9	321.5	311.3	304.1
3989.9	27.5°	3018.1	1861.4	507.5	398.6	358.5	330.8	308.2	291.7	282.5	277.4
4229.3	30°	3143.5	1858.3	483.8	369.8	331.8	304.1	281.5	266.1	258.9	256.8
4492.3	32.5°	3294.5	1866.6	494.1	359.5	307.2	279.4	257.8	246.5	239.4	239.4
4785.1	35°	3455.8	1864.5	509.5	368.8	290.7	254.8	238.3	231.1	223.9	223.9
5109.7	37.5°	3658.1	1867.6	521.9	384.2	284.6	234.2	225.0	215.7	211.6	211.6
5465.1	40°	3960.1	1969.3	515.7	397.6	282.5	219.8	201.3	198.3	195.2	195.2
5866.8	42.5°	4330.0	2190.2	523.9	398.6	281.5	209.6	184.9	191.1	183.9	182.9
6319.8	45°	4734.7	2431.6	576.3	377.0	280.4	204.4	176.7	183.9	172.6	172.6
6844.7	47.5°	5136.4	2670.9	629.7	346.2	277.4	203.4	169.5	165.4	162.3	163.3
7528.9	50°	5690.1	2866.1	650.3	304.1	270.2	201.3	156.1	157.2	155.1	157.2
8493.5	52.5°	6293.1	2907.2	625.6	256.8	249.6	195.2	146.9	151.0	150.0	152.0
9172.5	55°	6669.1	2863.0	516.7	213.7	217.8	170.5	137.7	145.9	145.9	145.9
9836.2	57.5°	7057.4	2675.0	366.7	173.6	180.8	139.7	129.4	140.7	139.7	138.7
10635.4	60°	7336.8	2371.0	241.4	142.8	143.8	115.1	120.2	132.5	131.5	126.4
11459.3	62.5°	7545.3	2035.0	155.1	121.2	109.9	103.8	109.9	120.2	116.1	104.8
12157.8	65°	7521.7	1569.7	119.2	103.8	90.4	90.4	95.5	104.8	92.5	74.0
12291.4	67.5°	7083.1	1062.2	98.6	87.3	76.0	75.0	79.1	87.3	79.1	62.7
11607.2	70°	6299.3	694.4	79.1	67.8	60.6	55.5	63.7	75.0	66.8	50.3
9881.4	72.5°	5112.8	423.2	59.6	49.3	44.2	36.0	50.3	61.6	53.4	37.0
6871.4	75°	3307.8	215.7	41.1	31.8	23.6	21.6	37.0	46.2	37.0	22.6
3049.0	77.5°	1265.6	90.4	22.6	14.4	12.3	10.3	20.5	27.7	15.4	5.1
590.7	80°	243.5	38.0	11.3	7.2	6.2	4.1	3.1	2.1	0.0	0.0
104.8	82.5°	42.1	12.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
20.5	85°	14.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	5.1	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

180°
1907.7
1157.7
678.0
551.6
509.5
470.5
433.5
399.6
366.7
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303.0
277.4
255.8
239.4
223.9
211.6
195.2
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