

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: P946334

Luminaire Tested: **GALN-SB2A-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946334  
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-SB2A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

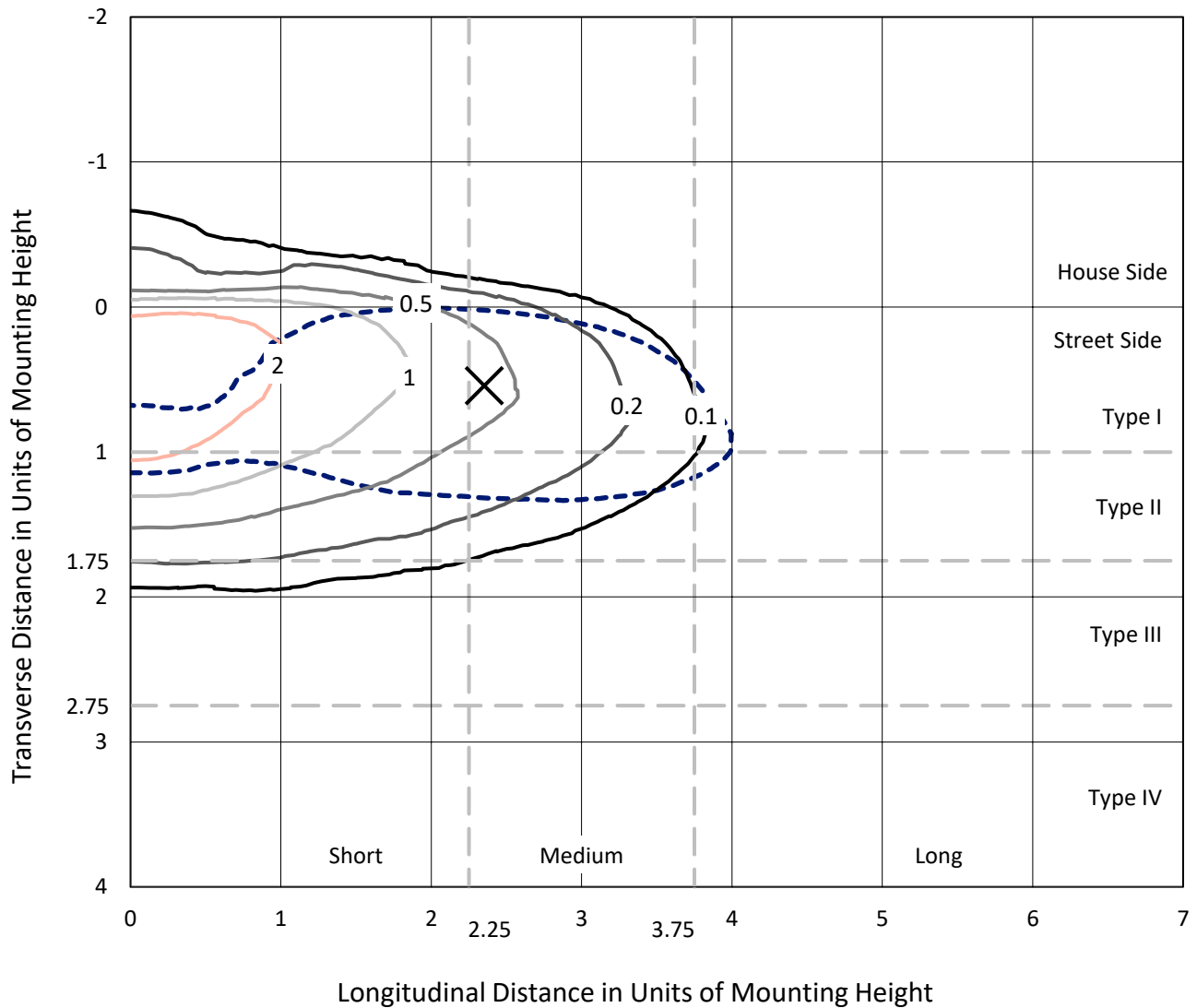
Lumens per Lamp: N/A  
Luminaire Lumens: 7595 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

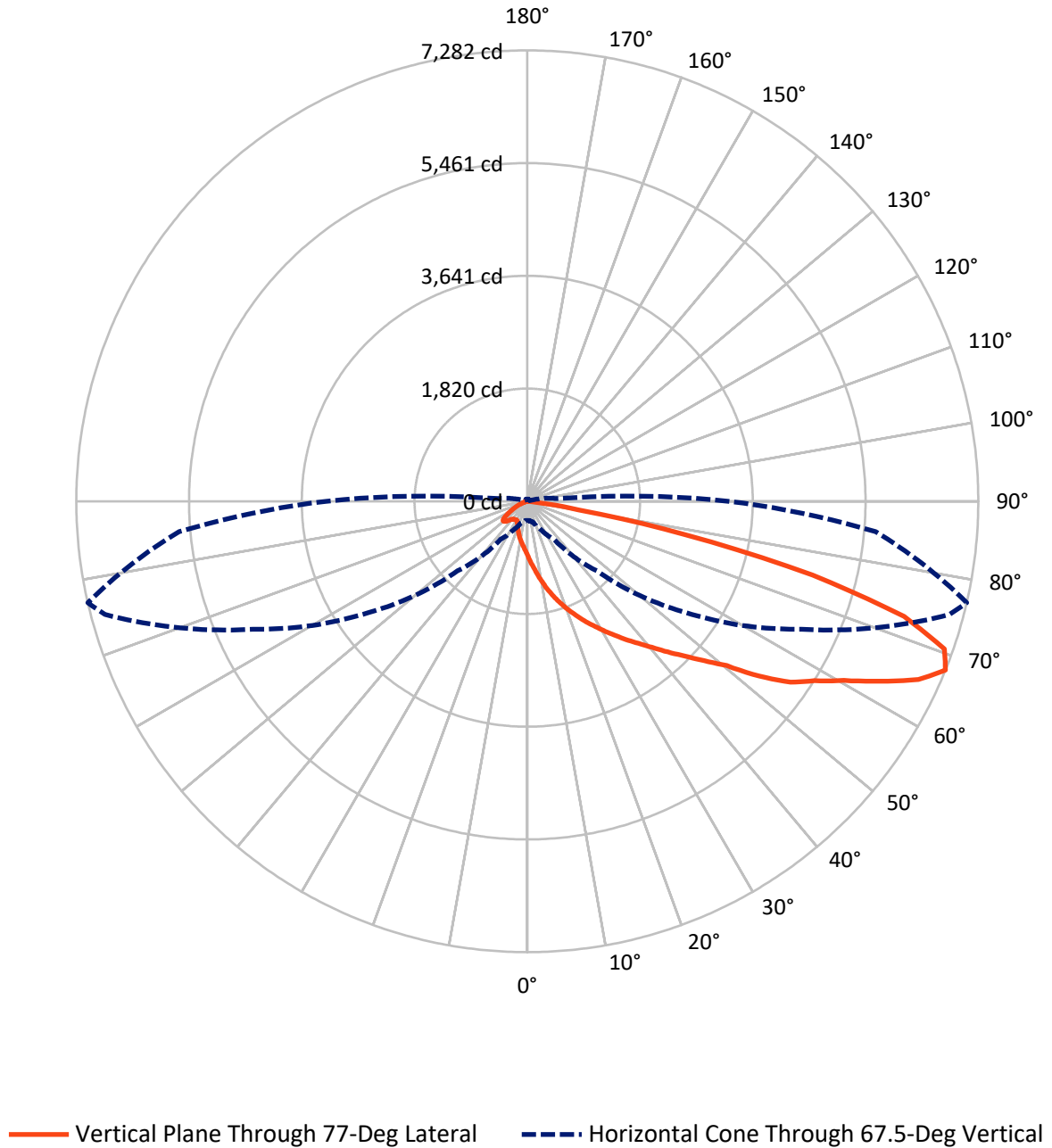
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	558.8	0.0	558.8
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	7036.2	0.0	7036.2
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	7595.0	0.0	7595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	1.2
10°-20°	313.0	4.1
20°-30°	604.1	8.0
30°-40°	1048.7	13.8
40°-50°	1522.7	20.0
50°-60°	1748.6	23.0
60°-70°	1518.1	20.0
70°-80°	715.0	9.4
80°-90°	35.4	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°	7595.0	100.0
0°-180°	7595.0	100.0

**Coefficient of Utilization**



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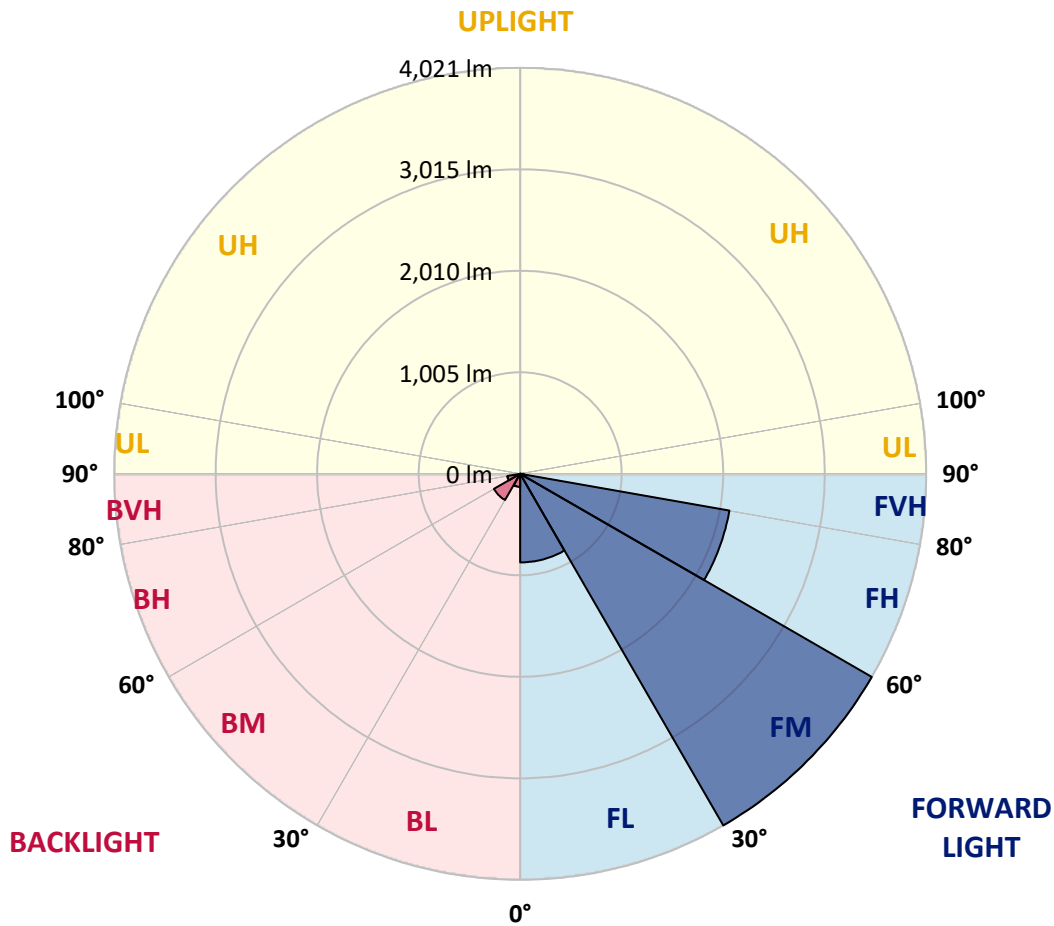
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.1	11.5			
FM (30°-60°)	4020.6	52.9			
FH (60°-80°)	2103.8	27.7			G2/5000
FVH (80°-90°)	34.7	0.5			G1/100
BL (0°-30°)	129.4	1.7	B1/500		
BM (30°-60°)	299.4	3.9	B1/1000		
BH (60°-80°)	129.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
2.5°	1212.6	1220.1	1209.3	1188.5	1157.4	1137.1	1087.6	1040.9	989.0	972.5
5°	1478.1	1484.7	1472.4	1449.8	1408.3	1368.7	1303.6	1206.0	1104.6	1072.0
7.5°	1674.8	1678.5	1673.8	1653.1	1613.4	1568.6	1496.0	1380.5	1230.0	1194.2
10°	1816.2	1828.5	1827.1	1819.1	1792.7	1756.3	1679.0	1547.4	1370.6	1324.3
12.5°	1910.1	1923.8	1931.8	1949.7	1948.3	1925.2	1857.3	1718.1	1510.6	1456.4
15°	1937.5	1952.1	1982.7	2024.2	2061.0	2072.8	2025.2	1885.6	1664.9	1595.5
17.5°	1921.9	1944.5	1981.3	2046.9	2127.5	2180.8	2175.6	2047.3	1804.9	1725.7
20°	1956.3	1978.0	2006.8	2062.0	2155.8	2252.5	2291.2	2202.0	1944.1	1861.0
22.5°	2146.9	2143.1	2145.9	2154.9	2211.0	2306.7	2386.4	2342.6	2081.8	1996.9
25°	2448.7	2431.7	2403.0	2354.4	2340.2	2386.4	2469.4	2467.1	2227.0	2136.0
27.5°	2794.9	2792.0	2724.6	2607.6	2541.6	2523.7	2563.3	2588.3	2370.9	2273.7
30°	3126.4	3134.0	3043.0	2912.8	2791.6	2721.3	2685.5	2703.4	2517.1	2422.3
32.5°	3415.1	3423.1	3324.0	3171.7	3021.7	2936.8	2861.4	2817.0	2676.5	2573.2
35°	3658.9	3666.9	3553.3	3384.9	3225.0	3148.1	3062.8	2941.6	2836.8	2740.6
37.5°	3876.8	3874.4	3722.1	3552.3	3395.3	3334.4	3289.6	3094.8	3001.9	2909.0
40°	4005.5	4015.4	3885.3	3698.0	3545.7	3501.4	3498.5	3284.9	3192.5	3102.4
42.5°	4043.3	4060.7	3966.4	3812.6	3674.5	3626.4	3700.4	3490.5	3414.1	3326.4
45°	3975.4	3992.3	3949.4	3842.8	3762.2	3731.1	3874.0	3703.7	3650.9	3564.1
47.5°	3777.3	3798.5	3808.9	3786.2	3785.3	3816.9	4029.6	3928.2	3932.0	3843.3
50°	3393.8	3429.7	3525.0	3605.1	3729.2	3884.8	4181.0	4171.6	4248.9	4172.5
52.5°	2696.8	2747.7	3076.0	3295.3	3574.0	3872.1	4347.5	4562.1	4805.0	4693.2
55°	2167.1	2167.1	2434.1	2844.4	3271.2	3788.1	4420.1	4815.8	5183.7	5157.3
57.5°	1766.7	1787.9	1958.2	2320.9	2833.1	3588.2	4464.9	4975.2	5488.8	5469.5
60°	1090.4	1136.2	1457.8	1815.8	2334.6	3232.1	4436.6	5136.5	5859.0	5874.6
62.5°	614.1	631.0	774.4	1306.4	1815.3	2753.4	4220.1	5226.6	6332.6	6398.6
65°	424.0	432.5	487.7	813.1	1258.3	2192.1	3797.1	5170.5	6807.0	6940.5
67.5°	308.0	312.2	346.6	496.6	746.6	1589.4	3134.0	4887.5	7058.4	7281.5
70°	236.8	239.6	264.6	326.4	441.0	981.0	2276.1	4324.8	6876.4	7142.8
72.5°	192.4	195.3	214.6	241.5	292.4	580.1	1379.5	3512.2	6072.7	6360.4
75°	162.2	166.0	183.5	200.9	229.2	372.6	647.1	2445.9	4566.8	4755.4
77.5°	90.1	83.0	149.0	166.5	193.4	235.8	302.8	1439.4	2557.6	2610.0
80°	56.1	58.0	118.4	133.9	148.6	118.9	138.7	554.2	886.7	842.3
82.5°	3.3	7.5	91.0	96.7	101.9	50.9	52.4	188.2	213.6	196.2
85°	0.0	0.0	41.5	33.5	35.4	14.6	15.1	43.9	28.8	31.1
87.5°	0.0	0.0	0.0	0.9	0.0	1.4	2.8	3.8	1.4	1.9
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°
875.8	0°	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8	875.8
920.6	2.5°	887.6	854.6	787.6	722.1	668.8	619.2	583.9	550.4	533.4	532.5
980.0	5°	914.5	845.2	711.2	592.8	497.6	421.2	371.6	336.3	318.3	312.2
1053.1	7.5°	952.2	848.0	644.2	479.6	367.4	301.8	273.5	262.2	258.5	254.2
1135.7	10°	999.9	854.6	584.3	386.3	289.6	256.6	245.2	240.5	237.7	234.9
1228.6	12.5°	1053.1	860.7	524.9	320.7	254.7	237.7	229.7	224.0	220.3	216.9
1323.9	15°	1105.0	864.5	463.1	275.0	236.8	223.1	214.6	208.5	203.3	199.5
1417.2	17.5°	1156.4	869.7	405.1	247.6	222.1	208.5	200.0	192.4	188.2	183.9
1515.3	20°	1213.5	868.7	350.4	228.3	207.5	193.8	184.9	177.8	173.6	168.8
1619.1	22.5°	1266.3	864.0	302.3	211.8	192.4	179.2	169.3	162.2	158.0	154.2
1725.2	25°	1327.2	860.3	262.2	196.7	178.3	165.1	154.2	147.6	142.9	139.6
1831.8	27.5°	1385.6	854.6	233.0	183.0	164.6	151.9	141.5	133.9	129.7	127.3
1941.7	30°	1443.2	853.2	222.1	169.8	152.3	139.6	129.2	122.2	118.9	117.9
2062.4	32.5°	1512.5	856.9	226.9	165.1	141.0	128.3	118.4	113.2	109.9	109.9
2196.8	35°	1586.6	856.0	233.9	169.3	133.5	117.0	109.4	106.1	102.8	102.8
2345.9	37.5°	1679.5	857.4	239.6	176.4	130.6	107.5	103.3	99.0	97.2	97.2
2509.1	40°	1818.1	904.1	236.8	182.5	129.7	100.9	92.4	91.0	89.6	89.6
2693.5	42.5°	1987.9	1005.5	240.5	183.0	129.2	96.2	84.9	87.7	84.4	83.9
2901.5	45°	2173.7	1116.3	264.6	173.1	128.8	93.9	81.1	84.4	79.2	79.2
3142.5	47.5°	2358.1	1226.2	289.1	158.9	127.3	93.4	77.8	75.9	74.5	75.0
3456.6	50°	2612.4	1315.8	298.5	139.6	124.0	92.4	71.7	72.2	71.2	72.2
3899.4	52.5°	2889.2	1334.7	287.2	117.9	114.6	89.6	67.4	69.3	68.9	69.8
4211.2	55°	3061.8	1314.4	237.2	98.1	100.0	78.3	63.2	67.0	67.0	67.0
4515.8	57.5°	3240.1	1228.1	168.4	79.7	83.0	64.1	59.4	64.6	64.1	63.7
4882.8	60°	3368.4	1088.5	110.8	65.6	66.0	52.8	55.2	60.8	60.4	58.0
5261.0	62.5°	3464.1	934.3	71.2	55.7	50.5	47.6	50.5	55.2	53.3	48.1
5581.7	65°	3453.3	720.6	54.7	47.6	41.5	41.5	43.9	48.1	42.4	34.0
5643.0	67.5°	3251.9	487.7	45.3	40.1	34.9	34.4	36.3	40.1	36.3	28.8
5328.9	70°	2892.0	318.8	36.3	31.1	27.8	25.5	29.2	34.4	30.7	23.1
4536.6	72.5°	2347.3	194.3	27.4	22.6	20.3	16.5	23.1	28.3	24.5	17.0
3154.7	75°	1518.6	99.0	18.9	14.6	10.8	9.9	17.0	21.2	17.0	10.4
1399.8	77.5°	581.0	41.5	10.4	6.6	5.7	4.7	9.4	12.7	7.1	2.4
271.2	80°	111.8	17.5	5.2	3.3	2.8	1.9	1.4	0.9	0.0	0.0
48.1	82.5°	19.3	5.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
9.4	85°	6.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	2.4	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>
875.8
531.5
311.3
253.3
233.9
216.0
199.0
183.5
168.4
153.8
139.1
127.3
117.4
109.9
102.8
97.2
89.6
83.5
79.2
75.0
72.2
69.8
67.0
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