

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: P949635

Luminaire Tested: **GALN-SB4B-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16338 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

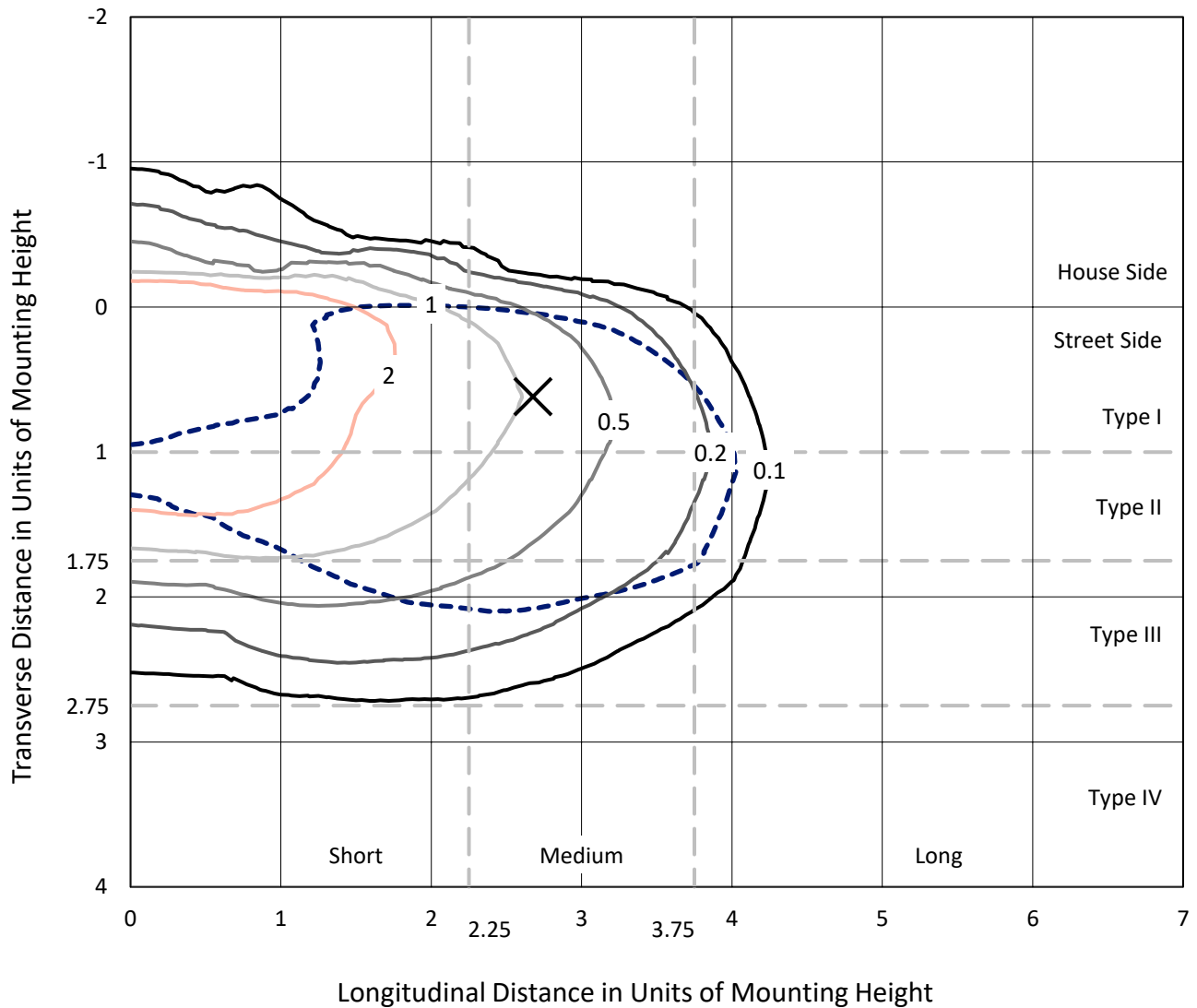
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

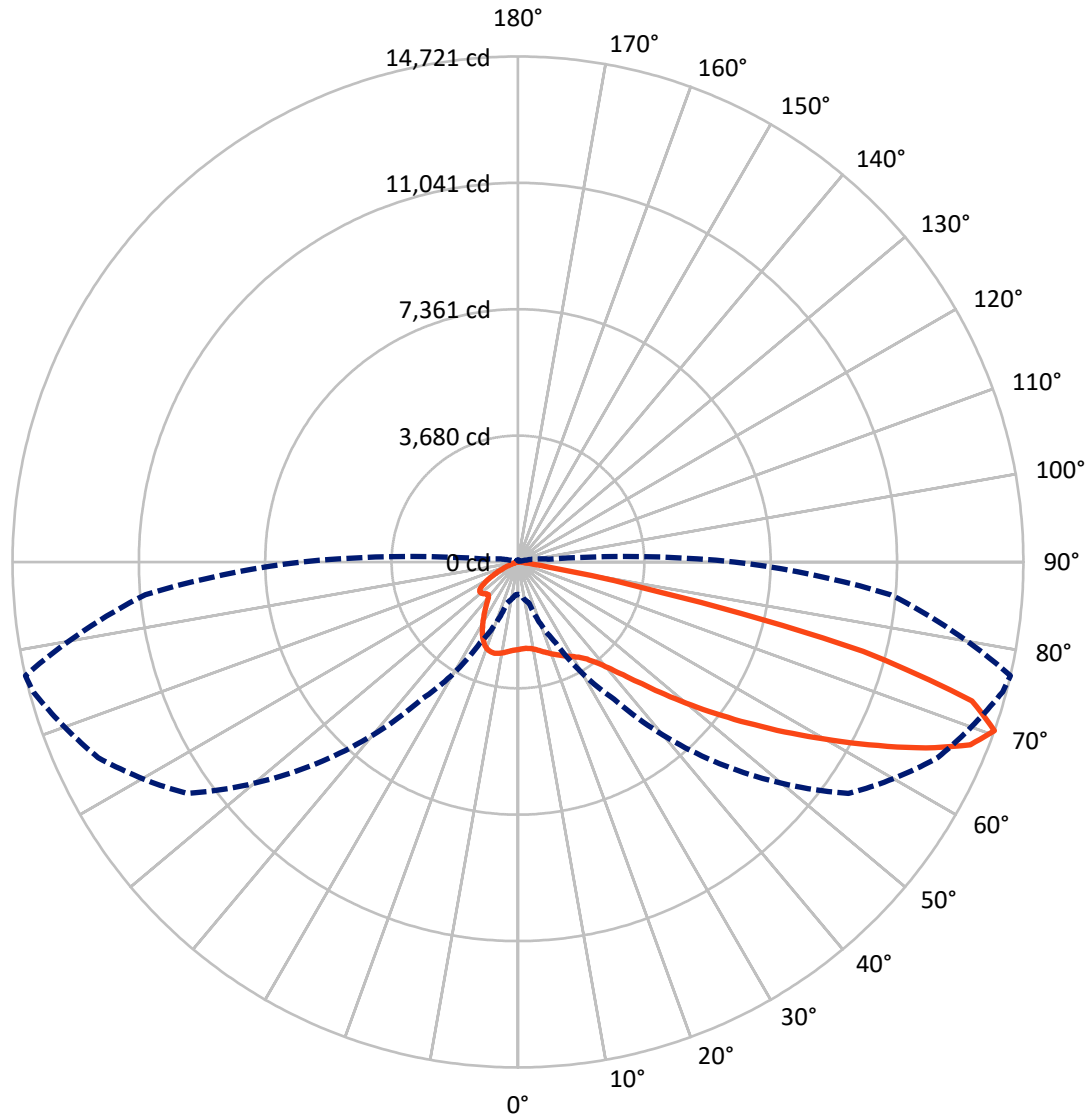
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.3	0.0	1722.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14615.7	0.0	14615.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	16338.0	0.0	16338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	1.3
10°-20°	521.4	3.2
20°-30°	806.4	4.9
30°-40°	1463.3	9.0
40°-50°	2762.2	16.9
50°-60°	3991.2	24.4
60°-70°	4248.5	26.0
70°-80°	2251.4	13.8
80°-90°	73.9	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°	16338.0	100.0
0°-180°	16338.0	100.0

Coefficient of Utilization



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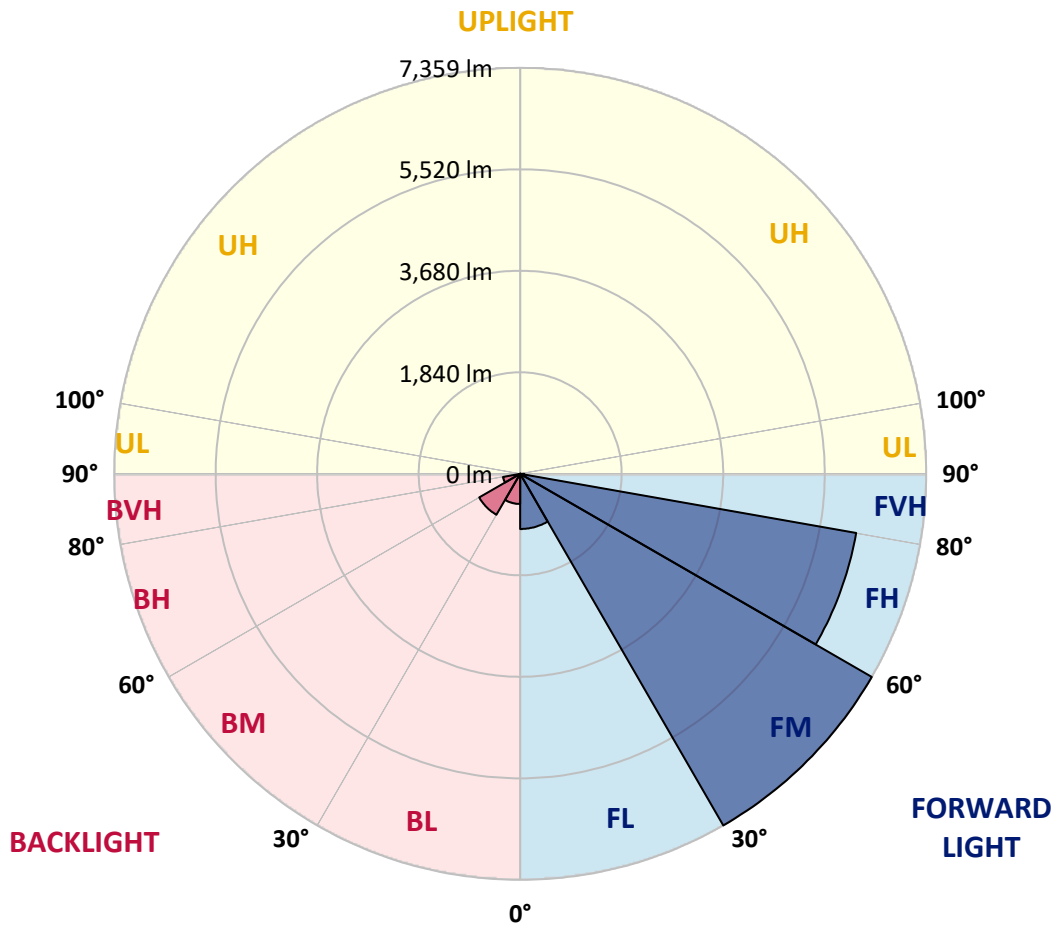
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.3	6.1			
FM (30°-60°)	7359.4	45.0			
FH (60°-80°)	6184.2	37.9			G3/7500
FVH (80°-90°)	71.9	0.4			G1/100
BL (0°-30°)	547.2	3.3	B2/1000		
BM (30°-60°)	857.3	5.2	B1/1000		
BH (60°-80°)	315.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4
2.5°	2392.6	2414.3	2411.2	2425.7	2430.8	2451.4	2472.1	2499.9	2530.9	2529.9
5°	2257.5	2279.1	2284.3	2303.9	2328.7	2360.7	2403.0	2458.7	2516.4	2525.7
7.5°	2097.6	2120.3	2133.7	2172.9	2218.3	2284.3	2353.4	2434.9	2530.9	2544.3
10°	1937.6	1958.3	1975.8	2031.5	2103.7	2201.8	2314.2	2431.8	2560.8	2580.4
12.5°	1838.6	1858.2	1877.8	1926.3	2016.0	2135.7	2288.4	2446.3	2610.3	2638.2
15°	1803.5	1821.0	1836.5	1879.9	1963.4	2099.6	2283.3	2476.2	2673.3	2710.4
17.5°	1808.7	1818.0	1828.3	1861.3	1942.8	2083.1	2292.6	2527.8	2747.6	2780.6
20°	1838.6	1843.7	1844.8	1867.5	1939.7	2081.0	2311.1	2577.3	2817.7	2862.1
22.5°	1876.8	1878.8	1876.8	1892.2	1959.3	2096.5	2335.9	2637.2	2896.1	2937.4
25°	2055.3	2016.0	1966.5	1936.6	1992.3	2126.4	2373.0	2717.6	2981.8	3022.0
27.5°	2609.3	2496.8	2319.4	2120.3	2060.4	2169.8	2424.6	2799.1	3068.4	3104.5
30°	3509.0	3361.5	3060.2	2611.4	2279.1	2260.6	2491.7	2880.7	3160.3	3199.5
32.5°	4410.7	4374.6	4026.9	3405.8	2771.3	2462.8	2603.1	2991.1	3282.0	3313.0
35°	5322.8	5249.6	4964.8	4350.9	3529.6	2874.5	2788.8	3135.5	3441.9	3477.0
37.5°	6021.3	5977.0	5800.5	5295.0	4429.3	3510.0	3106.6	3359.4	3674.1	3713.3
40°	6638.3	6617.7	6557.8	6224.6	5435.3	4341.6	3600.8	3706.1	3996.0	4042.4
42.5°	7123.2	7171.7	7205.8	7112.9	6472.2	5290.8	4265.3	4193.0	4444.8	4492.3
45°	7619.5	7636.0	7773.2	7907.4	7501.9	6283.4	5014.3	4763.6	5003.0	5061.8
47.5°	7938.3	8004.3	8245.8	8482.1	8367.5	7267.7	5819.1	5437.3	5649.9	5760.3
50°	7962.0	8086.9	8419.1	8830.8	8997.9	8204.5	6694.0	6205.0	6430.9	6552.7
52.5°	7566.9	7760.9	8275.7	8878.2	9338.4	8997.9	7598.9	6972.6	7262.5	7421.4
55°	5801.6	6055.4	7736.1	8620.3	9351.8	9599.4	8480.0	7772.2	8189.0	8368.6
57.5°	5054.6	5182.5	6082.2	8172.5	9103.2	9841.9	9276.5	8533.6	9197.1	9419.9
60°	4205.4	4373.6	5101.0	7440.0	8765.8	9865.6	9980.2	9515.9	10289.7	10540.4
62.5°	2858.0	3040.6	3763.8	6181.2	8304.6	9854.3	10556.9	10527.0	11504.1	11773.3
65°	1770.5	1885.0	2361.7	5047.3	7659.7	9866.7	11160.5	11754.8	12785.5	13058.9
67.5°	1399.1	1451.7	1700.3	3875.3	6548.5	9588.1	11763.0	12909.3	13991.6	14208.3
70°	939.9	971.9	1237.1	2598.0	4871.9	8302.5	11751.7	13489.2	14612.7	14721.1
72.5°	495.2	520.0	723.3	1203.0	2942.6	5901.6	9905.9	12795.8	13994.7	13831.7
75°	247.6	288.9	487.0	610.8	1256.7	3291.3	6151.3	10088.5	11015.0	10383.6
77.5°	187.8	227.0	402.4	402.4	437.5	1108.1	2605.2	5502.3	5075.2	4226.1
80°	119.7	154.8	351.8	304.4	182.6	281.7	678.9	1541.4	1078.2	820.2
82.5°	70.2	101.1	293.0	201.2	102.1	104.2	191.9	328.1	279.6	217.7
85°	27.9	66.0	201.2	79.4	40.2	25.8	57.8	70.2	57.8	43.3
87.5°	0.0	15.5	35.1	0.0	3.1	2.1	4.1	5.2	5.2	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°
2548.4	0°	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4	2548.4
2550.5	2.5°	2559.8	2561.8	2568.0	2569.1	2554.6	2536.1	2528.8	2525.7	2513.4	2512.3
2567.0	5°	2590.7	2600.0	2590.7	2563.9	2499.9	2410.2	2342.1	2286.4	2235.8	2220.3
2623.8	7.5°	2652.6	2661.9	2634.1	2528.8	2367.9	2189.4	2028.4	1914.9	1812.8	1774.6
2692.9	10°	2741.4	2753.8	2666.1	2453.5	2168.7	1881.9	1609.5	1417.6	1268.0	1207.2
2786.8	12.5°	2852.8	2858.0	2683.6	2339.0	1909.8	1500.2	1114.3	909.0	775.9	726.4
2900.3	15°	2975.6	2968.4	2685.7	2183.2	1556.9	1060.6	727.4	597.4	543.7	527.2
3013.8	17.5°	3104.5	3074.6	2644.4	1958.3	1170.0	725.3	539.6	508.7	499.4	495.2
3126.2	20°	3231.5	3164.4	2569.1	1664.2	839.8	541.7	490.1	480.8	475.6	473.6
3239.7	22.5°	3347.0	3232.5	2440.1	1322.7	609.8	478.7	463.3	455.0	445.7	441.6
3350.1	25°	3459.5	3271.7	2258.5	1003.9	488.0	447.8	435.4	419.9	407.5	402.4
3468.8	27.5°	3568.8	3296.5	2031.5	742.9	435.4	418.9	396.2	374.5	365.2	363.2
3595.7	30°	3685.4	3304.7	1773.6	554.1	403.4	382.8	349.8	325.0	319.8	320.9
3766.9	32.5°	3827.8	3317.1	1513.6	454.0	376.6	339.4	300.2	274.4	270.3	274.4
4016.6	35°	3998.0	3341.9	1262.9	417.9	352.9	295.1	252.8	231.1	227.0	230.1
4336.5	37.5°	4229.2	3382.1	1028.7	410.6	333.3	257.9	212.5	195.0	195.0	196.0
4728.5	40°	4536.6	3489.4	819.2	405.5	322.9	230.1	179.5	172.3	175.4	177.5
5227.9	42.5°	4911.2	3717.4	677.9	399.3	311.6	217.7	163.0	159.9	165.1	167.1
5826.3	45°	5331.1	4006.3	628.3	389.0	301.3	226.0	155.8	151.7	157.9	158.9
6497.0	47.5°	5765.4	4289.0	622.1	377.6	291.0	238.3	153.7	144.4	151.7	152.7
7213.0	50°	6205.0	4473.7	628.3	360.1	274.4	238.3	154.8	137.2	143.4	146.5
7955.9	52.5°	6647.6	4558.3	624.2	321.9	245.6	223.9	154.8	131.0	137.2	139.3
8758.6	55°	7076.8	4541.8	561.3	265.2	208.4	198.1	150.6	125.9	130.0	131.0
9516.9	57.5°	7416.2	4311.7	444.7	206.4	169.2	165.1	137.2	119.7	122.8	121.7
10212.3	60°	7593.7	3806.1	317.8	158.9	133.1	130.0	120.7	111.4	113.5	108.3
10801.4	62.5°	7595.8	3137.6	212.5	125.9	106.3	103.2	103.2	100.1	98.0	87.7
11257.5	65°	7433.8	2395.7	141.4	100.1	85.6	80.5	86.7	85.6	78.4	64.0
11396.8	67.5°	7066.5	1570.3	107.3	78.4	66.0	62.9	69.1	72.2	67.1	53.7
10889.1	70°	6311.2	914.1	88.7	60.9	49.5	46.4	55.7	61.9	55.7	43.3
9307.5	72.5°	5242.3	493.2	72.2	45.4	34.0	31.0	44.4	50.6	44.4	32.0
5971.8	75°	3401.7	264.1	55.7	29.9	17.5	19.6	33.0	37.1	31.0	20.6
1753.0	77.5°	1142.2	116.6	35.1	14.4	8.3	8.3	19.6	22.7	14.4	7.2
318.8	80°	254.8	48.5	14.4	6.2	3.1	3.1	4.1	4.1	2.1	0.0
98.0	82.5°	83.6	19.6	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
24.8	85°	32.0	7.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	12.4	1.0	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>
2548.4
2514.4
2211.0
1759.1
1181.4
710.9
527.2
494.2
471.5
440.6
400.3
361.1
320.9
273.4
229.0
195.0
177.5
167.1
159.9
153.7
147.5
139.3
131.0
121.7
107.3
84.6
61.9
52.6
41.3
31.0
18.6
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