

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: P950750

Luminaire Tested: **GALN-SB5A-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950750
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-SB5A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA 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: 16190 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

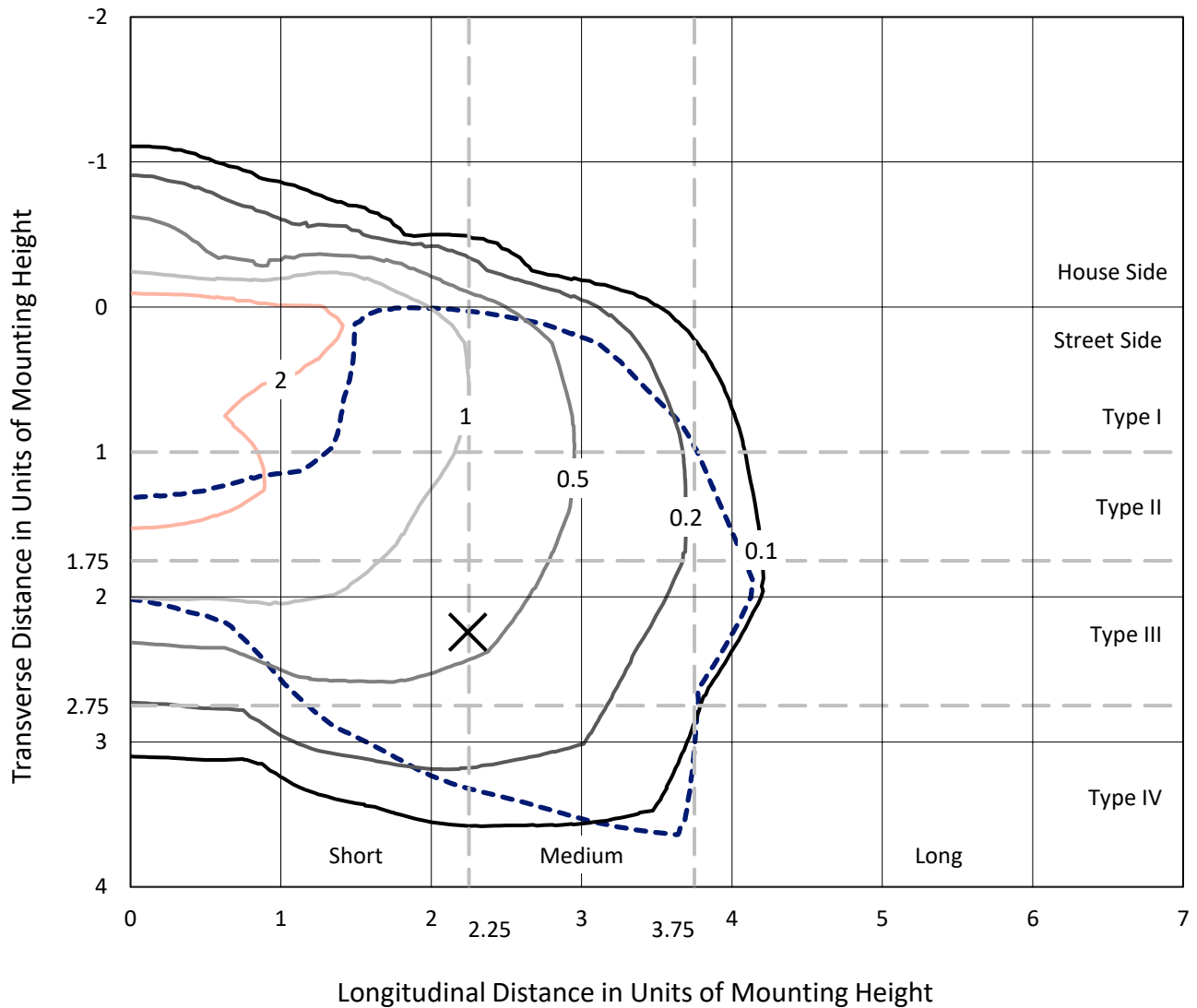
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

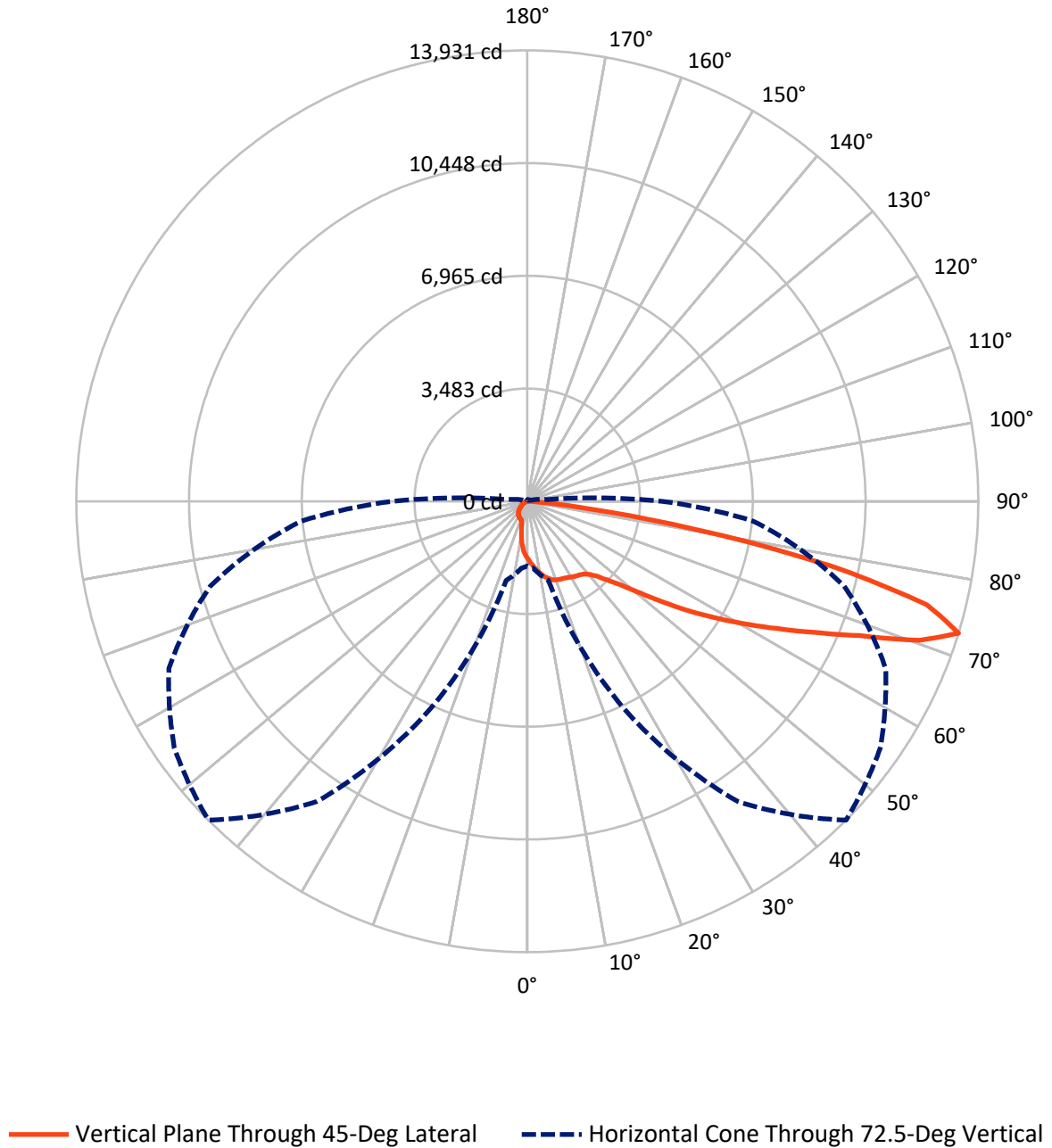
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1701.1	0.0	1701.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14488.9	0.0	14488.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	16190.0	0.0	16190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.0
10°-20°	488.4	3.0
20°-30°	802.0	5.0
30°-40°	1137.5	7.0
40°-50°	1880.1	11.6
50°-60°	3377.4	20.9
60°-70°	4689.7	29.0
70°-80°	3401.8	21.0
80°-90°	245.9	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°	16190.0	100.0
0°-180°	16190.0	100.0

Coefficient of Utilization



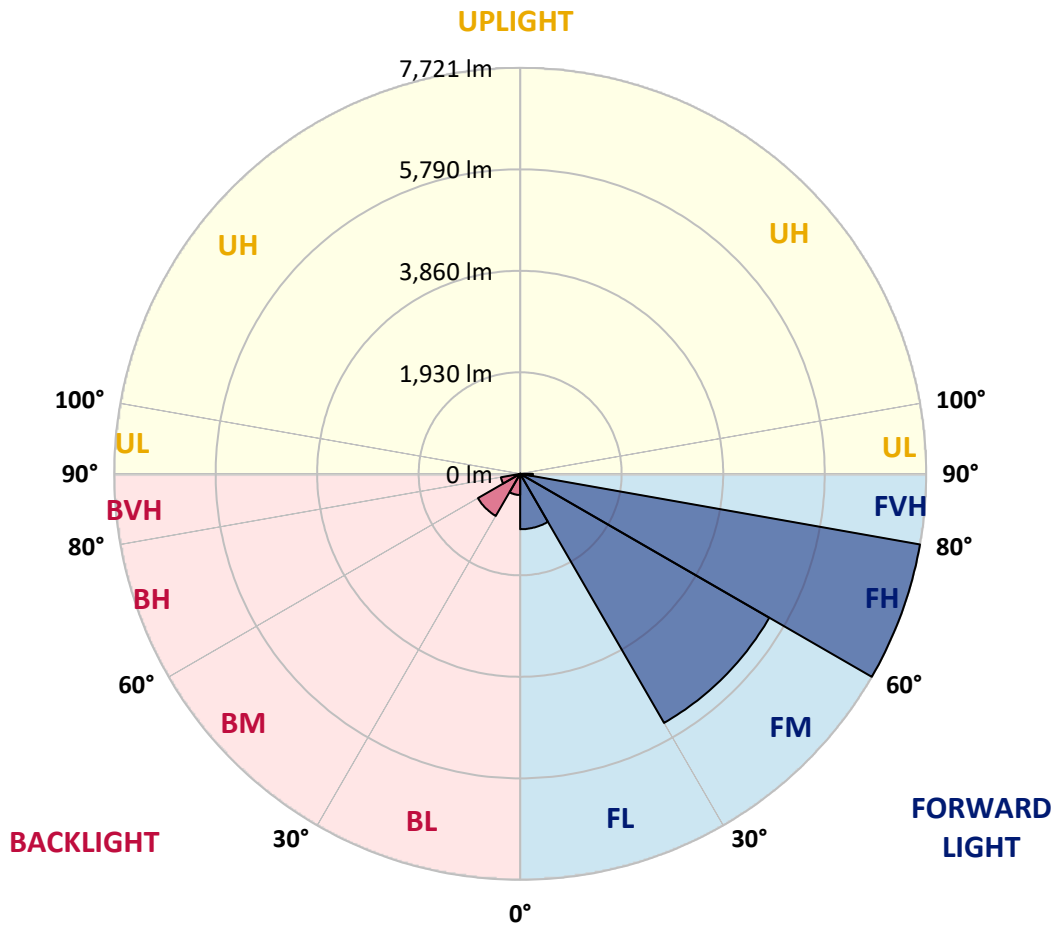
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.6	6.5			
FM (30°-60°)	5469.8	33.8			
FH (60°-80°)	7720.5	47.7			G4/12000
FVH (80°-90°)	243.9	1.5			G3/500
BL (0°-30°)	402.9	2.5	B1/500		
BM (30°-60°)	925.2	5.7	B1/1000		
BH (60°-80°)	371.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6
2.5°	1937.2	1940.5	1938.3	1925.0	1902.9	1890.8	1884.2	1862.1	1847.7	1822.3
5°	2115.1	2128.4	2120.6	2094.1	2052.1	2022.3	2013.5	1968.1	1927.3	1879.7
7.5°	2304.1	2310.7	2296.4	2262.1	2205.7	2154.9	2147.2	2084.2	2019.0	1946.0
10°	2467.6	2475.4	2453.3	2403.5	2339.4	2276.5	2265.4	2195.8	2118.4	2028.9
12.5°	2604.7	2612.4	2583.7	2524.0	2453.3	2388.1	2377.0	2304.1	2219.0	2119.5
15°	2708.5	2722.9	2684.2	2620.1	2543.9	2478.7	2473.2	2401.3	2318.5	2207.9
17.5°	2769.3	2783.7	2747.2	2669.9	2604.7	2549.4	2542.8	2483.1	2405.8	2299.7
20°	2779.3	2792.5	2753.9	2686.4	2632.3	2588.1	2584.8	2541.7	2485.3	2383.7
22.5°	2749.4	2766.0	2730.6	2676.5	2638.9	2615.7	2611.3	2587.0	2554.9	2468.7
25°	2718.5	2731.8	2705.2	2657.7	2637.8	2635.6	2638.9	2634.5	2627.9	2554.9
27.5°	2716.3	2730.6	2700.8	2655.5	2644.4	2667.7	2671.0	2692.0	2697.5	2633.4
30°	2735.1	2745.0	2716.3	2668.8	2663.2	2716.3	2717.4	2755.0	2763.8	2699.7
32.5°	2776.0	2787.0	2758.3	2688.7	2680.9	2755.0	2758.3	2808.0	2822.4	2770.4
35°	2872.1	2885.4	2852.2	2743.9	2716.3	2791.4	2801.4	2859.9	2888.7	2845.6
37.5°	3111.9	3073.2	3027.9	2855.5	2797.0	2848.9	2865.5	2934.0	2984.8	2935.1
40°	3707.5	3586.0	3444.5	3045.6	2938.4	2971.6	2984.8	3053.3	3122.9	3074.3
42.5°	4601.5	4457.9	4230.2	3483.2	3151.7	3168.3	3178.2	3237.9	3336.2	3297.6
45°	5398.3	5346.4	5114.3	4230.2	3550.6	3468.8	3481.0	3511.9	3656.7	3642.3
47.5°	6010.5	5980.7	5801.7	5087.8	4224.7	3836.8	3871.1	3885.5	4094.3	4145.1
50°	6481.3	6470.2	6310.0	5850.3	5105.5	4379.4	4391.6	4360.6	4673.4	4799.4
52.5°	6925.5	6963.1	6844.8	6558.6	6045.9	5090.0	5087.8	4941.9	5364.0	5554.1
55°	7326.7	7339.9	7352.1	7281.4	6991.8	5898.9	5877.9	5639.2	6165.2	6361.9
57.5°	7703.5	7709.0	7817.3	7962.1	7976.4	6767.5	6728.8	6442.6	7040.4	7180.8
60°	7956.6	7982.0	8210.7	8613.0	8788.7	7663.7	7642.7	7351.0	7931.1	7996.3
62.5°	7591.9	7746.6	8323.4	9121.3	9555.6	8657.2	8647.2	8373.2	8868.2	8815.2
65°	6145.3	6407.2	7421.7	9465.0	10308.2	9766.7	9781.0	9489.3	9830.8	9658.4
67.5°	4298.8	4575.0	5775.1	9492.6	11149.1	11069.6	11152.4	10694.9	10853.0	10466.2
70°	2972.7	3115.2	3896.5	8898.1	11804.4	12864.2	12862.0	12175.7	11869.6	10834.2
72.5°	1999.1	2073.1	2530.6	7059.2	11322.6	13930.6	13866.5	13307.3	12212.2	10132.5
75°	843.2	897.3	1171.4	3967.2	8957.8	12744.9	12571.4	11760.2	10850.8	7978.7
77.5°	267.4	290.6	461.9	1420.0	4934.2	9579.9	9396.5	7344.3	7272.5	4002.6
80°	127.1	148.1	259.7	570.2	1941.6	5210.4	5185.0	3331.8	3128.5	1080.8
82.5°	55.3	65.2	143.7	305.0	868.6	1858.7	1896.3	1133.8	938.2	410.0
85°	17.7	23.2	66.3	140.3	366.9	461.9	456.4	269.6	377.9	223.2
87.5°	0.0	0.0	22.1	32.0	37.6	26.5	29.8	23.2	105.0	61.9
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°
1773.6	0°	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6	1773.6
1795.8	2.5°	1782.5	1764.8	1733.9	1705.1	1679.7	1654.3	1638.8	1616.7	1614.5	1614.5
1824.5	5°	1794.6	1765.9	1710.7	1652.1	1584.7	1520.6	1456.5	1394.6	1374.7	1360.4
1870.9	7.5°	1830.0	1784.7	1697.4	1585.8	1457.6	1317.3	1218.9	1112.8	1071.9	1049.8
1932.8	10°	1880.8	1819.0	1686.3	1490.7	1283.0	1091.8	951.5	836.5	792.3	773.6
2000.2	12.5°	1937.2	1861.0	1666.5	1372.5	1091.8	863.1	726.0	673.0	666.4	666.4
2080.9	15°	2004.6	1911.8	1632.2	1233.3	891.8	682.9	634.3	636.5	643.2	647.6
2159.3	17.5°	2074.2	1965.9	1578.1	1077.5	715.0	614.4	615.5	618.8	624.4	628.8
2244.4	20°	2149.4	2020.1	1506.2	911.7	613.3	594.5	597.8	601.2	605.6	607.8
2324.0	22.5°	2230.0	2070.9	1421.1	749.2	579.1	578.0	579.1	582.4	587.9	587.9
2416.8	25°	2316.2	2127.3	1323.9	631.0	561.4	561.4	563.6	565.8	570.2	570.2
2506.3	27.5°	2404.6	2179.2	1221.1	569.1	545.9	544.8	544.8	548.1	550.3	551.4
2594.7	30°	2501.9	2240.0	1118.3	555.9	533.8	528.2	524.9	527.1	529.3	530.4
2687.5	32.5°	2601.4	2298.6	1026.6	561.4	521.6	511.7	500.6	498.4	498.4	502.8
2783.7	35°	2711.9	2362.7	955.9	580.2	515.0	487.3	469.7	459.7	460.8	467.4
2898.6	37.5°	2844.5	2440.0	904.0	596.7	510.5	459.7	431.0	418.8	411.1	418.8
3056.6	40°	3018.0	2553.8	866.4	610.0	505.0	427.7	389.0	369.1	354.7	359.2
3302.0	42.5°	3273.2	2732.9	852.0	611.1	492.9	390.1	345.9	319.4	298.4	299.5
3671.1	45°	3631.3	3015.8	926.1	596.7	466.3	349.2	300.6	265.2	252.0	248.6
4222.5	47.5°	4121.9	3427.9	1097.3	566.9	427.7	309.4	256.4	226.5	216.6	211.1
4946.3	50°	4779.5	3957.3	1287.4	533.8	389.0	271.8	219.9	201.1	194.5	189.0
5805.0	52.5°	5542.0	4494.3	1443.2	500.6	350.3	238.7	196.7	185.7	180.1	175.7
6633.8	55°	6241.5	4864.5	1434.4	465.2	312.7	212.2	180.1	173.5	166.9	162.4
7347.7	57.5°	6676.9	4916.5	1182.4	426.6	269.6	191.2	164.7	160.2	152.5	147.0
7965.4	60°	6876.9	4620.3	828.8	375.7	226.5	171.3	148.1	145.9	135.9	128.2
8550.0	62.5°	6913.4	4070.0	552.5	312.7	189.0	152.5	131.5	128.2	114.9	101.7
9025.2	65°	6765.3	3283.2	382.4	244.2	161.3	132.6	112.7	106.1	91.7	78.5
9137.9	67.5°	6296.7	2305.2	266.3	175.7	137.0	105.0	89.5	87.3	76.3	65.2
8563.2	70°	5438.1	1313.9	177.9	131.5	108.3	71.8	70.7	72.9	61.9	53.0
6996.2	72.5°	4169.5	601.2	110.5	96.1	74.0	48.6	56.4	57.5	47.5	39.8
4365.1	75°	2454.4	257.5	69.6	61.9	37.6	32.0	40.9	42.0	32.0	25.4
1595.7	77.5°	835.4	97.2	44.2	36.5	18.8	17.7	26.5	26.5	17.7	9.9
320.5	80°	190.1	36.5	22.1	14.4	8.8	7.7	8.8	7.7	4.4	1.1
98.4	82.5°	54.1	14.4	8.8	5.5	3.3	3.3	1.1	0.0	0.0	0.0
34.3	85°	15.5	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
12.2	87.5°	6.6	1.1	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>
1773.6
1620.0
1367.0
1053.1
773.6
666.4
647.6
628.8
608.9
590.1
571.3
552.5
532.6
506.1
470.8
416.6
356.9
295.1
244.2
207.8
187.9
174.6
160.2
145.9
126.0
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74.0
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