

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: P941926

Luminaire Tested: **GALN-SB5C-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

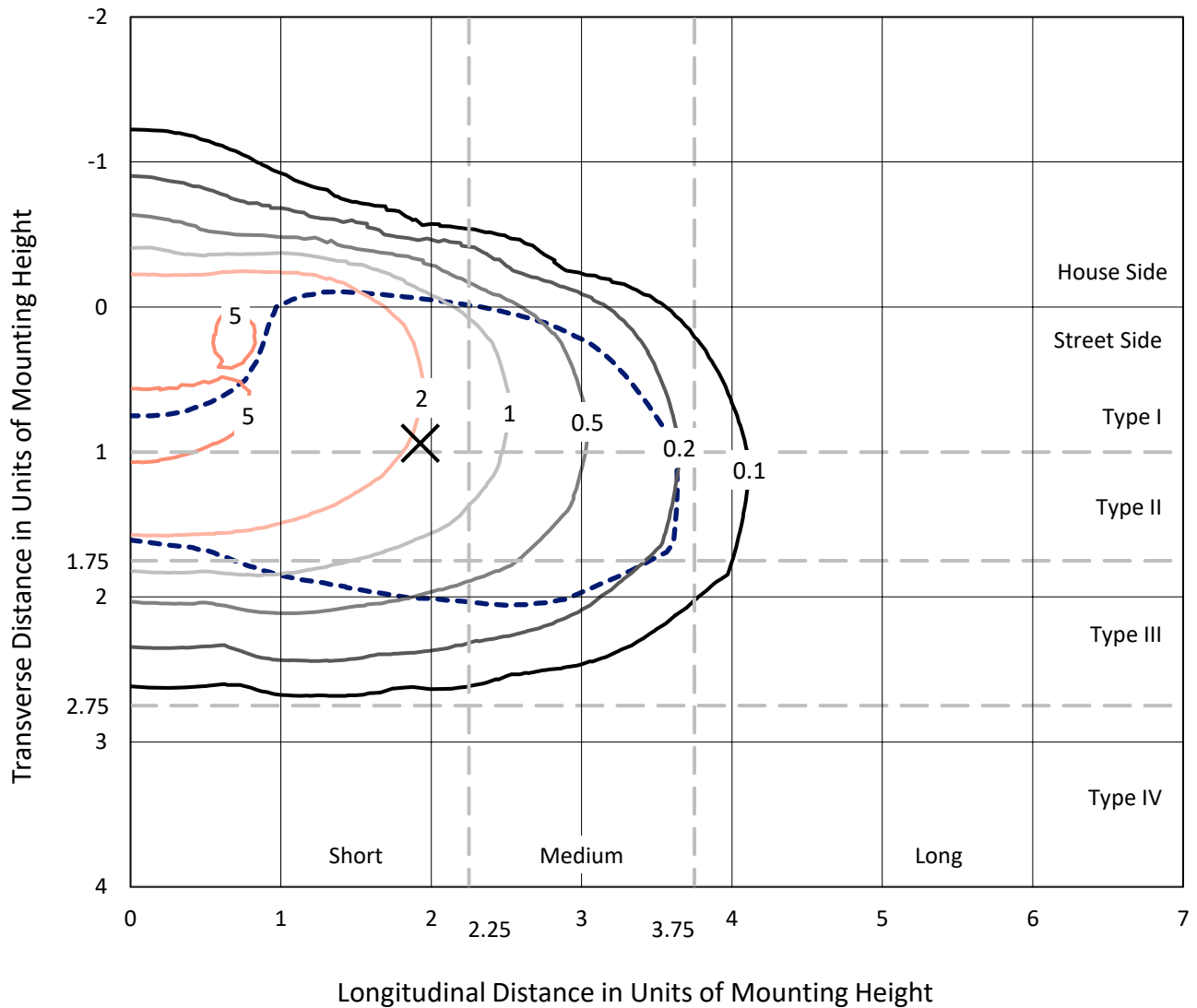
Lumens per Lamp: N/A  
Luminaire Lumens: 21500 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

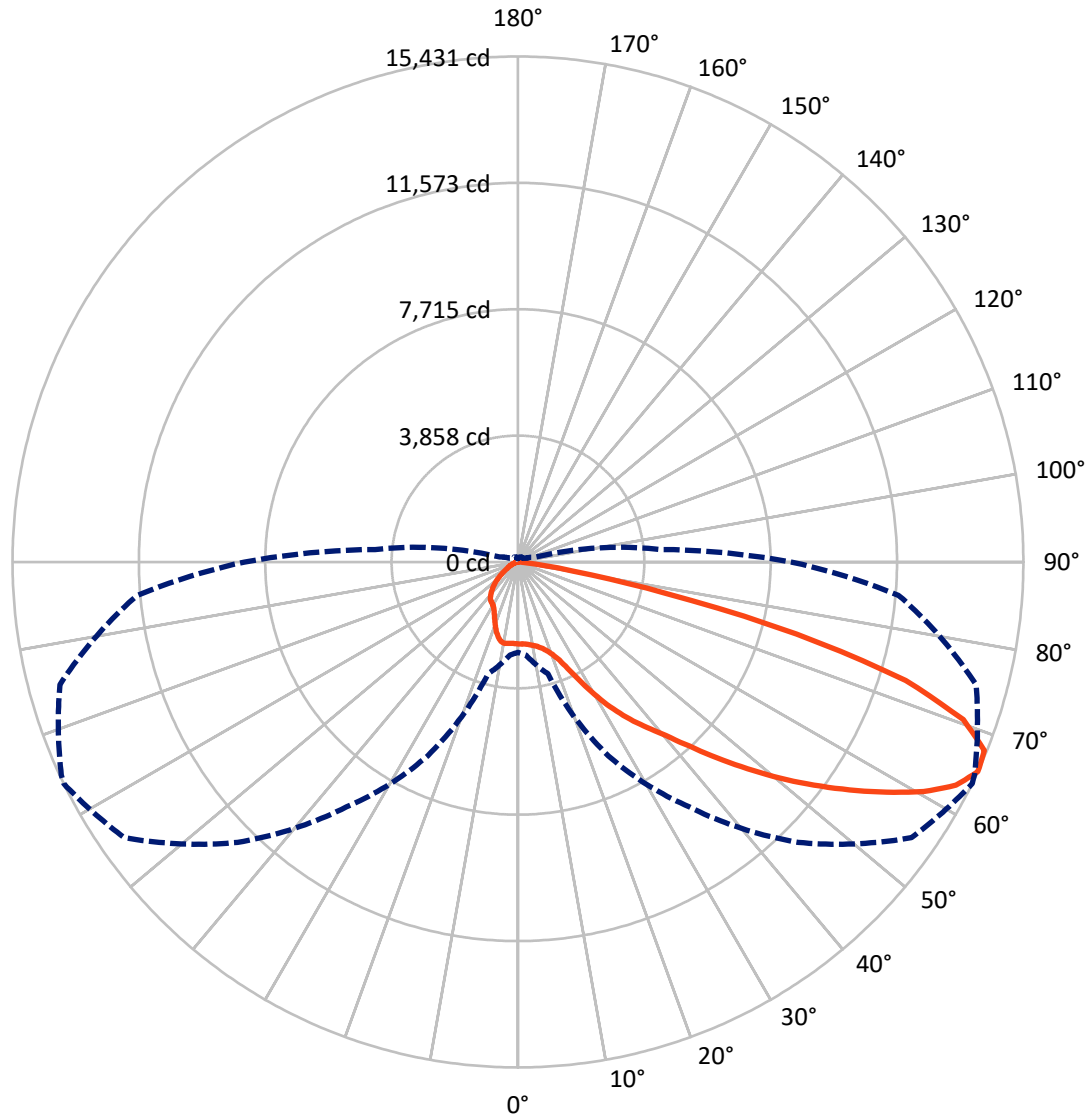
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2875.2	0.0	2875.2
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	18624.8	0.0	18624.8
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	21500.0	0.0	21500.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	1.1
10°-20°	625.8	2.9
20°-30°	1185.8	5.5
30°-40°	2399.4	11.2
40°-50°	4087.4	19.0
50°-60°	5558.6	25.9
60°-70°	5219.8	24.3
70°-80°	2091.3	9.7
80°-90°	101.3	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°	21500.0	100.0
0°-180°	21500.0	100.0

**Coefficient of Utilization**



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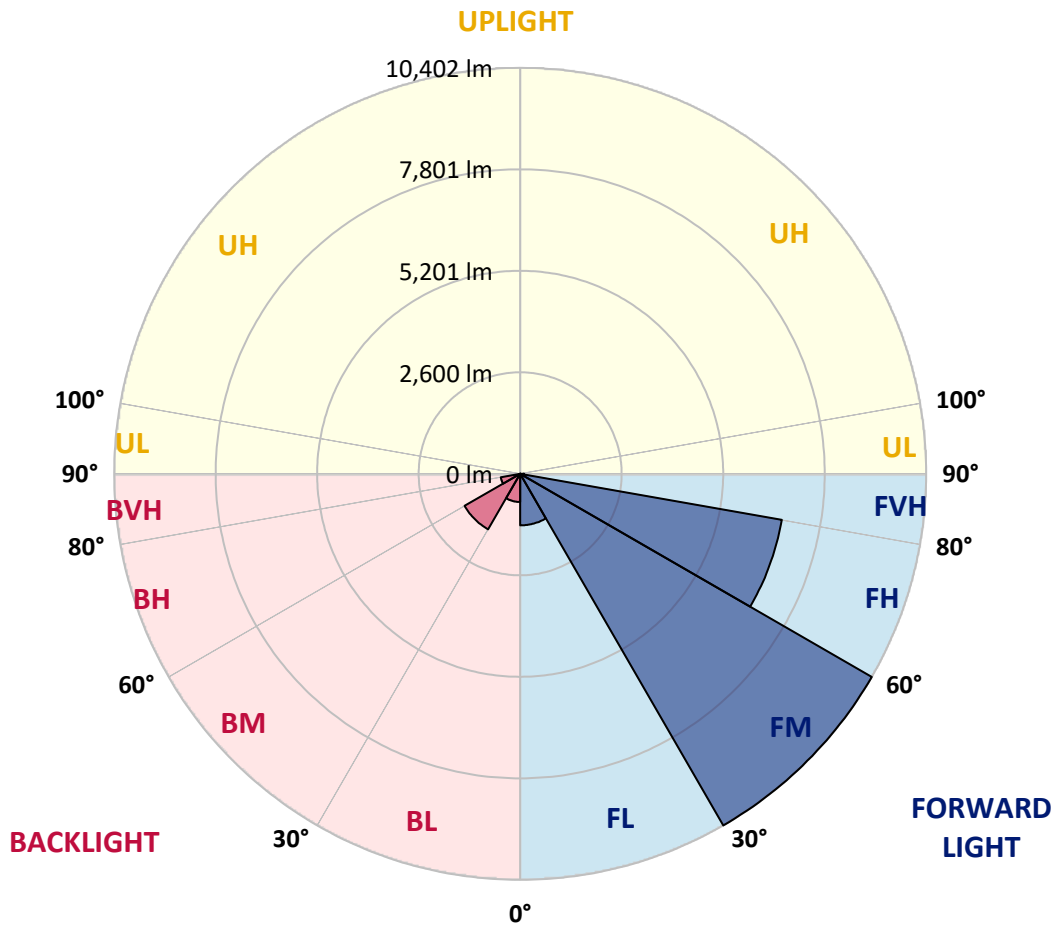
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.3	6.1			
FM (30°-60°)	10401.7	48.4			
FH (60°-80°)	6806.4	31.7			G3/7500
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	721.9	3.4	B2/1000		
BM (30°-60°)	1643.7	7.6	B2/2500		
BH (60°-80°)	504.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2.5°	2492.0	2509.3	2505.0	2500.7	2499.2	2502.1	2503.6	2502.1	2502.1	2502.1
5°	2444.5	2458.9	2458.9	2469.0	2483.4	2500.7	2513.6	2516.5	2519.4	2523.7
7.5°	2353.7	2365.2	2373.8	2407.0	2443.0	2489.1	2528.1	2548.2	2551.1	2567.0
10°	2291.7	2306.1	2320.5	2355.1	2407.0	2476.2	2542.5	2591.5	2598.7	2636.2
12.5°	2288.8	2303.2	2322.0	2359.4	2420.0	2493.5	2574.2	2644.8	2657.8	2712.5
15°	2319.1	2336.4	2353.7	2399.8	2464.6	2554.0	2640.5	2728.4	2741.4	2819.2
17.5°	2381.0	2404.1	2417.1	2463.2	2532.4	2631.8	2745.7	2846.6	2858.1	2948.9
20°	2503.6	2530.9	2535.3	2572.7	2640.5	2747.1	2882.6	3008.0	3022.4	3126.2
22.5°	2757.2	2796.1	2761.6	2780.3	2840.8	2947.5	3094.5	3253.0	3273.2	3391.4
25°	3204.0	3258.8	3169.4	3137.7	3163.7	3274.7	3459.1	3659.5	3682.5	3777.7
27.5°	4081.8	4011.2	3875.7	3743.1	3665.3	3728.7	3936.2	4184.1	4212.9	4305.2
30°	5046.0	4984.1	4801.0	4507.0	4322.5	4312.4	4504.1	4780.8	4814.0	4901.9
32.5°	6011.7	5952.6	5753.7	5391.9	5072.0	4913.4	5046.0	5353.0	5370.3	5426.5
35°	6961.5	6901.0	6702.1	6331.7	5938.2	5577.9	5551.9	5897.8	5903.6	5962.7
37.5°	7917.1	7866.7	7654.8	7291.6	6903.9	6406.6	6165.9	6413.8	6421.0	6478.7
40°	8598.9	8620.5	8474.9	8193.8	7860.9	7317.5	6854.9	6963.0	6919.7	7016.3
42.5°	9184.0	9227.3	9100.4	8959.2	8766.0	8287.5	7708.1	7689.4	7620.2	7672.1
45°	9689.9	9726.0	9612.1	9578.9	9574.6	9238.8	8640.7	8528.2	8431.7	8421.6
47.5°	9875.9	9945.0	9994.0	10105.0	10321.2	10180.0	9604.9	9430.5	9322.4	9243.1
50°	9946.5	10020.0	10187.2	10510.0	11021.7	11082.2	10564.8	10368.8	10236.2	10092.1
52.5°	9851.4	9982.5	10207.4	10750.7	11493.0	11805.8	11485.8	11314.3	11162.9	10928.0
55°	9290.7	9421.8	9881.6	10747.9	11727.9	12313.1	12356.4	12280.0	12109.9	11739.5
57.5°	8108.8	8303.4	9031.2	10381.8	11723.6	12749.8	13209.6	13264.4	13074.1	12543.7
60°	6471.5	6735.2	7623.1	9570.3	11361.8	12986.2	13957.6	14231.5	14029.7	13336.4
62.5°	4515.6	4821.2	5661.5	8299.1	10534.5	12816.1	14503.9	15009.8	14857.0	14045.6
65°	2754.3	2852.4	3529.8	6530.6	9127.8	12104.1	14672.5	15430.7	15380.2	14479.4
67.5°	1834.8	1916.9	2111.5	4478.2	7085.5	10681.6	14269.0	15357.2	15371.6	14408.8
70°	1105.5	1176.1	1302.9	2604.4	4592.0	8454.7	13019.4	14420.3	14503.9	13464.7
72.5°	455.5	503.0	618.3	1180.4	2378.2	5366.0	10367.3	12380.9	12575.4	11321.5
75°	258.0	282.5	363.2	592.4	1032.0	2500.7	6279.8	8789.1	9075.9	7803.3
77.5°	171.5	183.0	234.9	383.4	580.8	853.3	2683.7	4579.0	5126.7	4262.0
80°	115.3	125.4	161.4	256.6	377.6	366.1	854.7	1696.4	2087.0	1464.4
82.5°	77.8	79.3	115.3	168.6	239.3	177.3	252.2	527.5	663.0	423.7
85°	44.7	43.2	85.0	98.0	106.7	73.5	76.4	158.5	207.5	178.7
87.5°	5.8	8.6	33.2	25.9	14.4	15.9	15.9	27.4	40.4	43.2
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°
2500.7	0°	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7	2500.7
2503.6	2.5°	2503.6	2502.1	2497.8	2493.5	2483.4	2477.6	2480.5	2477.6	2476.2	2477.6
2522.3	5°	2522.3	2518.0	2506.4	2492.0	2471.8	2447.3	2431.5	2408.4	2386.8	2373.8
2572.7	7.5°	2572.7	2568.4	2552.6	2512.2	2447.3	2345.0	2251.3	2169.2	2107.2	2071.2
2653.5	10°	2653.5	2646.2	2621.7	2532.4	2362.3	2138.9	1953.0	1798.8	1697.9	1650.3
2748.6	12.5°	2748.6	2739.9	2696.7	2513.6	2200.9	1852.1	1595.5	1424.0	1330.3	1288.5
2858.1	15°	2861.0	2849.5	2764.4	2424.3	1965.9	1535.0	1300.1	1171.8	1111.3	1073.8
2997.9	17.5°	3000.8	2980.6	2814.9	2290.2	1710.8	1292.9	1118.5	1021.9	968.6	932.5
3181.0	20°	3182.4	3149.3	2855.2	2130.3	1475.9	1140.1	995.9	915.2	874.9	843.2
3440.4	22.5°	3436.1	3388.5	2904.2	1957.3	1310.2	1034.9	905.1	846.0	812.9	776.9
3802.2	25°	3750.3	3694.1	2964.8	1797.3	1196.3	944.1	838.8	789.8	750.9	709.1
4276.4	27.5°	4189.9	4089.0	3036.8	1666.2	1098.3	866.2	778.3	723.5	678.9	644.3
4814.0	30°	4679.9	4514.2	3100.3	1586.9	1008.9	794.2	699.0	644.3	602.5	578.0
5296.8	32.5°	5144.0	4919.2	3142.1	1552.3	928.2	712.0	612.6	553.5	521.8	514.5
5769.6	35°	5582.2	5285.3	3137.7	1519.1	856.1	629.9	527.5	467.0	442.5	446.8
6278.3	37.5°	6086.7	5675.9	3107.5	1467.3	797.0	554.9	454.0	400.7	379.1	380.5
6896.7	40°	6673.3	6127.0	3088.7	1369.2	732.2	485.7	393.5	350.2	334.4	328.6
7548.1	42.5°	7298.8	6563.7	3091.6	1258.3	651.5	423.7	351.7	315.6	301.2	296.9
8273.1	45°	7927.2	6980.3	3095.9	1143.0	566.4	376.2	321.4	291.1	282.5	276.7
9008.2	47.5°	8518.1	7334.8	3015.2	1019.0	482.8	340.1	296.9	276.7	269.5	262.3
9746.1	50°	9068.7	7571.2	2820.6	874.9	416.5	311.3	278.2	263.8	256.6	249.3
10414.9	52.5°	9496.8	7608.7	2499.2	726.4	370.4	289.7	266.6	253.7	245.0	237.8
10955.4	55°	9687.0	7373.7	2042.3	588.1	334.4	271.0	255.1	242.1	232.1	224.8
11380.6	57.5°	9638.0	6879.4	1592.6	472.7	299.8	252.2	240.7	232.1	220.5	209.0
11725.1	60°	9397.3	6217.8	1200.6	393.5	268.1	232.1	224.8	217.6	201.8	184.5
11857.7	62.5°	8980.8	5386.2	856.1	325.7	233.5	209.0	206.1	200.3	177.3	145.6
11661.6	65°	8343.7	4375.8	576.5	271.0	200.3	183.0	184.5	174.4	144.1	108.1
10943.9	67.5°	7412.7	3199.7	369.0	222.0	167.2	152.8	154.2	148.5	122.5	92.2
9583.3	70°	6226.5	2118.7	240.7	168.6	134.0	118.2	126.8	128.3	103.8	74.9
7355.0	72.5°	4564.6	1251.1	168.6	125.4	98.0	82.2	103.8	106.7	83.6	56.2
4424.8	75°	2601.6	593.8	126.8	90.8	60.5	57.7	80.7	80.7	57.7	37.5
1915.5	77.5°	1092.5	247.9	89.4	59.1	34.6	33.2	54.8	50.4	28.8	17.3
467.0	80°	315.6	111.0	47.6	28.8	14.4	13.0	21.6	15.9	7.2	2.9
177.3	82.5°	124.0	49.0	18.7	11.5	5.8	5.8	2.9	0.0	0.0	0.0
100.9	85°	73.5	20.2	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	18.7	4.3	2.9	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°
2500.7
2483.4
2376.7
2072.6
1646.0
1284.2
1075.2
929.6
837.4
771.1
704.8
637.1
573.6
518.9
446.8
386.3
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295.5
276.7
262.3
249.3
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