

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: P948564

Luminaire Tested: **GALN-SB3C-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948564  
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-SB3C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

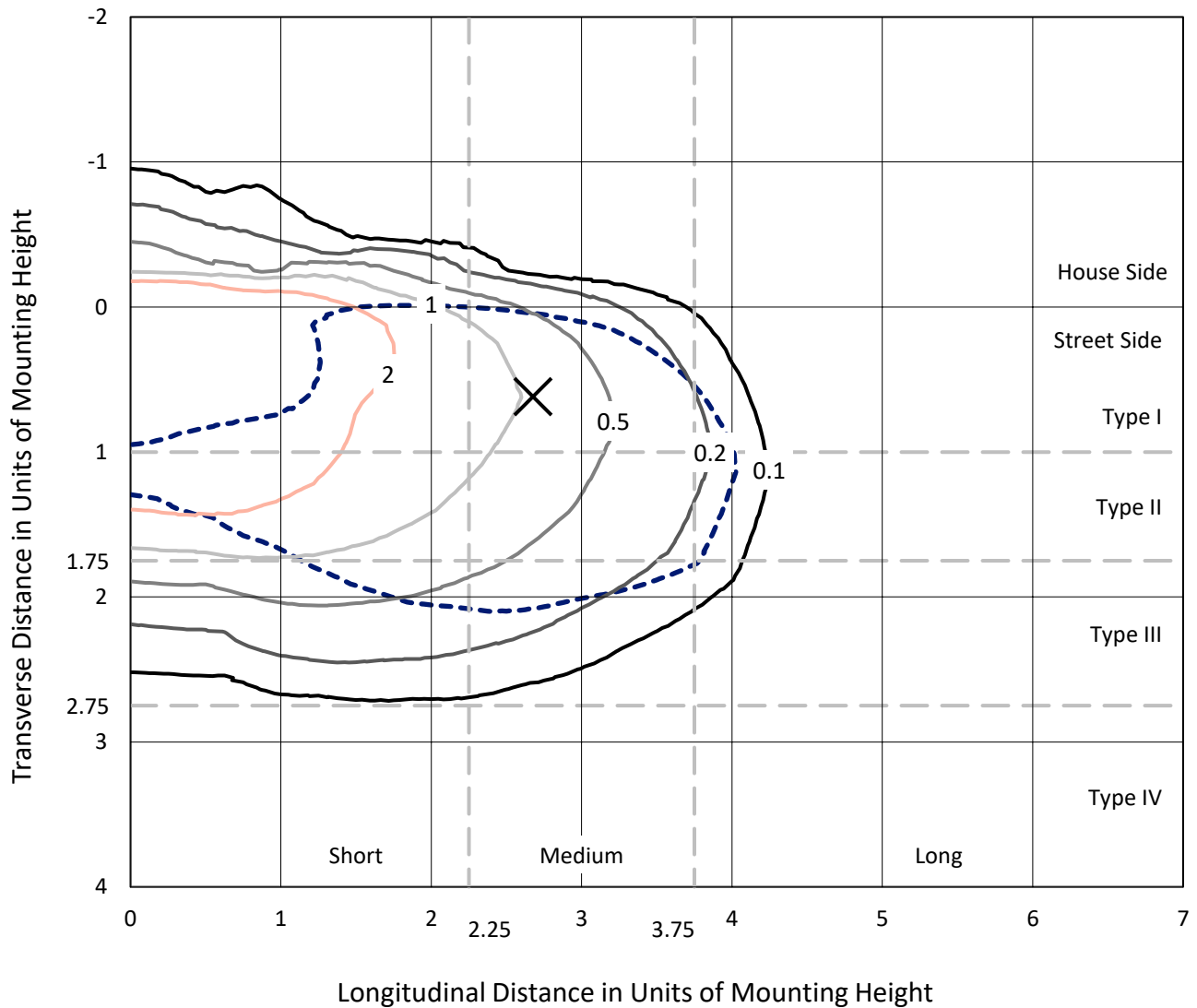
Lumens per Lamp: N/A  
Luminaire Lumens: 16267 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 149.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

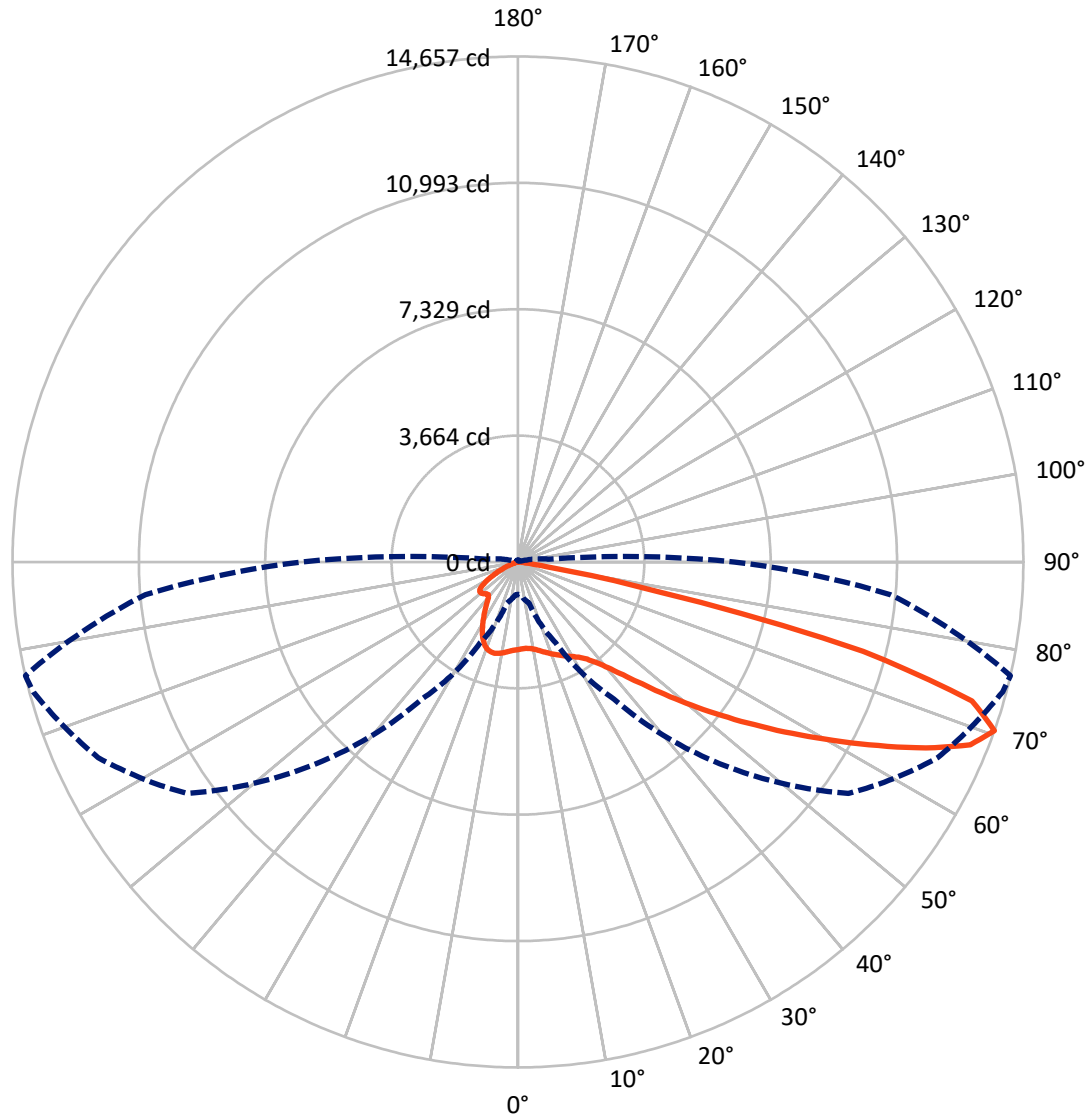
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SB3C-827-U-T3R-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SB3C-827-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1714.8	0.0	1714.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14552.2	0.0	14552.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16267.0	0.0	16267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.7	1.3
10°-20°	519.1	3.2
20°-30°	802.9	4.9
30°-40°	1457.0	9.0
40°-50°	2750.2	16.9
50°-60°	3973.8	24.4
60°-70°	4230.0	26.0
70°-80°	2241.6	13.8
80°-90°	73.6	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°	16267.0	100.0
0°-180°	16267.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P948564

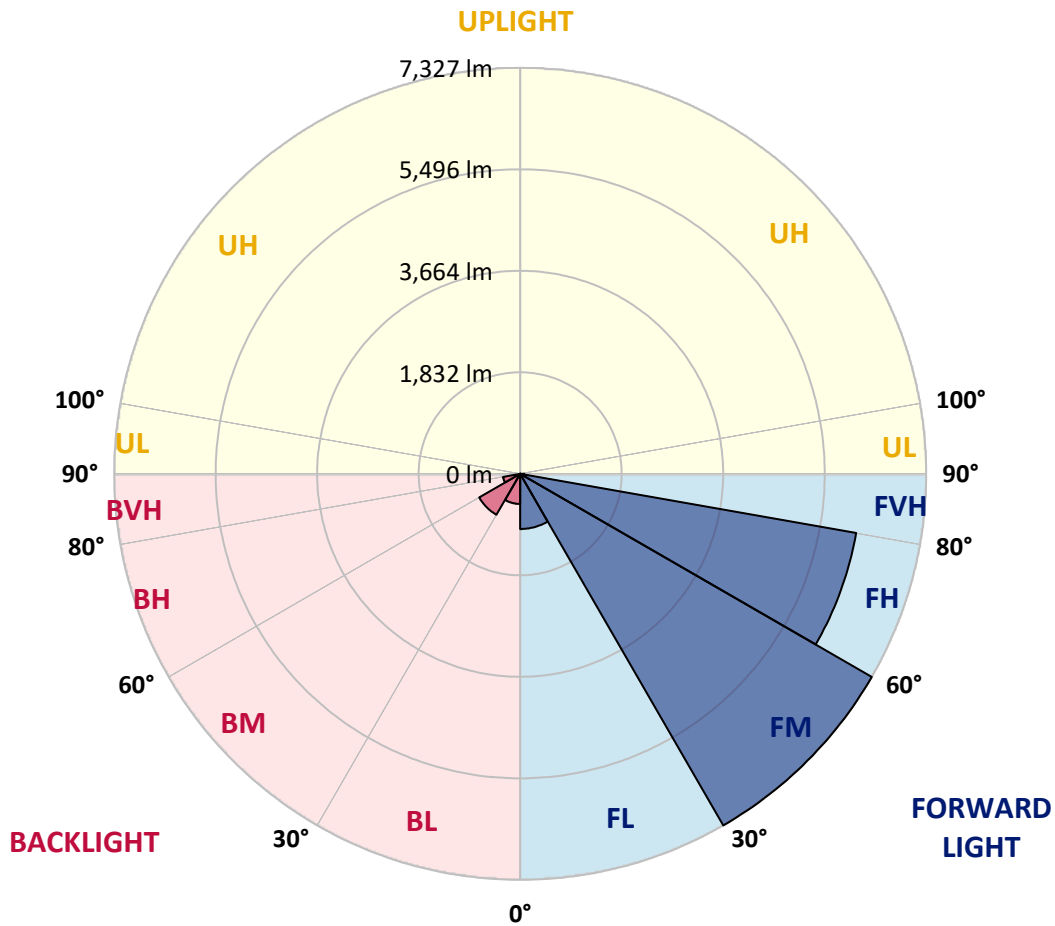
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.9	6.1			
FM (30°-60°)	7327.4	45.0			
FH (60°-80°)	6157.3	37.9			G3/7500
FVH (80°-90°)	71.6	0.4			G1/100
BL (0°-30°)	544.8	3.3	B2/1000		
BM (30°-60°)	853.6	5.2	B1/1000		
BH (60°-80°)	314.4	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°	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4
2.5°	2382.2	2403.8	2400.7	2415.1	2420.2	2440.8	2461.3	2489.1	2519.9	2518.9
5°	2247.7	2269.2	2274.4	2293.9	2318.5	2350.4	2392.5	2448.0	2505.5	2514.8
7.5°	2088.4	2111.0	2124.4	2163.4	2208.6	2274.4	2343.2	2424.4	2519.9	2533.2
10°	1929.2	1949.8	1967.2	2022.7	2094.6	2192.2	2304.2	2421.3	2549.7	2569.2
12.5°	1830.6	1850.1	1869.6	1917.9	2007.3	2126.4	2278.5	2435.7	2599.0	2626.7
15°	1795.7	1813.1	1828.5	1871.7	1954.9	2090.5	2273.3	2465.4	2661.7	2698.6
17.5°	1800.8	1810.1	1820.3	1853.2	1934.4	2074.1	2282.6	2516.8	2735.6	2768.5
20°	1830.6	1835.7	1836.8	1859.4	1931.3	2072.0	2301.1	2566.1	2805.5	2849.6
22.5°	1868.6	1870.7	1868.6	1884.0	1950.8	2087.4	2325.7	2625.7	2883.5	2924.6
25°	2046.3	2007.3	1958.0	1928.2	1983.7	2117.2	2362.7	2705.8	2968.8	3008.9
27.5°	2598.0	2486.0	2309.3	2111.0	2051.5	2160.3	2414.1	2787.0	3055.1	3091.1
30°	3493.7	3346.8	3046.9	2600.0	2269.2	2250.7	2480.9	2868.1	3146.5	3185.6
32.5°	4391.6	4355.6	4009.4	3391.0	2759.2	2452.1	2591.8	2978.1	3267.7	3298.6
35°	5299.7	5226.8	4943.2	4332.0	3514.3	2862.0	2776.7	3121.9	3427.0	3461.9
37.5°	5995.2	5951.0	5775.3	5272.0	4410.1	3494.8	3093.1	3344.8	3658.1	3697.1
40°	6609.5	6588.9	6529.3	6197.5	5411.7	4322.8	3585.2	3690.0	3978.6	4024.8
42.5°	7092.3	7140.6	7174.5	7082.0	6444.1	5267.8	4246.7	4174.8	4425.5	4472.7
45°	7586.4	7602.8	7739.5	7873.0	7469.3	6256.1	4992.5	4742.9	4981.2	5039.8
47.5°	7903.8	7969.6	8209.9	8445.2	8331.2	7236.1	5793.8	5413.7	5625.3	5735.3
50°	7927.4	8051.7	8382.5	8792.4	8958.8	8168.9	6664.9	6178.0	6403.0	6524.2
52.5°	7534.0	7727.1	8239.7	8839.7	9297.8	8958.8	7565.8	6942.3	7231.0	7389.2
55°	5776.3	6029.1	7702.5	8582.8	9311.2	9557.7	8443.1	7738.4	8153.4	8332.2
57.5°	5032.6	5160.0	6055.8	8137.0	9063.6	9799.1	9236.2	8496.6	9157.1	9379.0
60°	4187.2	4354.6	5078.8	7407.6	8727.7	9822.8	9936.8	9474.5	10245.0	10494.6
62.5°	2845.5	3027.4	3747.5	6154.4	8268.5	9811.5	10511.0	10481.2	11454.1	11722.2
65°	1762.8	1876.8	2351.4	5025.4	7626.5	9823.8	11112.0	11703.7	12729.9	13002.2
67.5°	1393.0	1445.4	1692.9	3858.4	6520.1	9546.4	11711.9	12853.2	13930.8	14146.5
70°	935.8	967.7	1231.7	2586.7	4850.8	8266.4	11700.6	13430.5	14549.2	14657.1
72.5°	493.1	517.7	720.1	1197.8	2929.8	5876.0	9862.8	12740.2	13933.9	13771.6
75°	246.5	287.6	484.9	608.1	1251.2	3277.0	6124.6	10044.7	10967.1	10338.5
77.5°	187.0	226.0	400.6	400.6	435.6	1103.3	2593.9	5478.4	5053.1	4207.7
80°	119.2	154.1	350.3	303.0	181.8	280.4	675.9	1534.7	1073.5	816.7
82.5°	69.9	100.7	291.7	200.3	101.7	103.8	191.1	326.7	278.4	216.8
85°	27.7	65.7	200.3	79.1	40.1	25.7	57.5	69.9	57.5	43.1
87.5°	0.0	15.4	34.9	0.0	3.1	2.1	4.1	5.1	5.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948564  
 CATALOG NUMBER: GALN-SB3C-827-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2537.4	0°	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4	2537.4
2539.4	2.5°	2548.7	2550.7	2556.9	2557.9	2543.5	2525.0	2517.8	2514.8	2502.4	2501.4
2555.8	5°	2579.5	2588.7	2579.5	2552.8	2489.1	2399.7	2331.9	2276.4	2226.1	2210.7
2612.3	7.5°	2641.1	2650.4	2622.6	2517.8	2357.6	2179.9	2019.6	1906.6	1804.9	1766.9
2681.2	10°	2729.5	2741.8	2654.5	2442.8	2159.3	1873.7	1602.5	1411.5	1262.5	1201.9
2774.7	12.5°	2840.4	2845.5	2671.9	2328.8	1901.5	1493.7	1109.5	905.0	772.5	723.2
2887.7	15°	2962.6	2955.5	2674.0	2173.7	1550.2	1056.0	724.2	594.8	541.4	524.9
3000.7	17.5°	3091.1	3061.3	2632.9	1949.8	1164.9	722.2	537.3	506.4	497.2	493.1
3112.6	20°	3217.4	3150.6	2557.9	1657.0	836.2	539.3	488.0	478.7	473.6	471.5
3225.6	22.5°	3332.5	3218.4	2429.5	1317.0	607.1	476.7	461.2	453.0	443.8	439.7
3335.5	25°	3444.4	3257.5	2248.7	999.5	485.9	445.8	433.5	418.1	405.8	400.6
3453.7	27.5°	3553.3	3282.1	2022.7	739.6	433.5	417.1	394.5	372.9	363.7	361.6
3580.0	30°	3669.4	3290.3	1765.9	551.6	401.7	381.1	348.2	323.6	318.5	319.5
3750.6	32.5°	3811.2	3302.7	1507.0	452.0	375.0	338.0	298.9	273.3	269.1	273.3
3999.2	35°	3980.7	3327.3	1257.4	416.0	351.3	293.8	251.7	230.1	226.0	229.1
4317.6	37.5°	4210.8	3367.4	1024.2	408.9	331.8	256.8	211.6	194.2	194.2	195.2
4708.0	40°	4516.9	3474.2	815.7	403.7	321.5	229.1	178.7	171.6	174.6	176.7
5205.2	42.5°	4889.8	3701.3	674.9	397.6	310.2	216.8	162.3	159.2	164.4	166.4
5801.0	45°	5307.9	3988.9	625.6	387.3	300.0	225.0	155.1	151.0	157.2	158.2
6468.7	47.5°	5740.4	4270.4	619.4	376.0	289.7	237.3	153.1	143.8	151.0	152.0
7181.6	50°	6178.0	4454.2	625.6	358.5	273.3	237.3	154.1	136.6	142.8	145.9
7921.3	52.5°	6618.7	4538.5	621.5	320.5	244.5	222.9	154.1	130.5	136.6	138.7
8720.5	55°	7046.0	4522.0	558.8	264.0	207.5	197.2	150.0	125.3	129.4	130.5
9475.5	57.5°	7384.0	4293.0	442.8	205.5	168.5	164.4	136.6	119.2	122.2	121.2
10167.9	60°	7560.7	3789.6	316.4	158.2	132.5	129.4	120.2	110.9	113.0	107.9
10754.5	62.5°	7562.8	3123.9	211.6	125.3	105.8	102.7	102.7	99.6	97.6	87.3
11208.5	65°	7401.5	2385.3	140.7	99.6	85.3	80.1	86.3	85.3	78.1	63.7
11347.2	67.5°	7035.8	1563.5	106.8	78.1	65.7	62.7	68.8	71.9	66.8	53.4
10841.8	70°	6283.8	910.2	88.3	60.6	49.3	46.2	55.5	61.6	55.5	43.1
9267.0	72.5°	5219.6	491.0	71.9	45.2	33.9	30.8	44.2	50.3	44.2	31.8
5945.8	75°	3386.9	263.0	55.5	29.8	17.5	19.5	32.9	37.0	30.8	20.5
1745.3	77.5°	1137.2	116.1	34.9	14.4	8.2	8.2	19.5	22.6	14.4	7.2
317.4	80°	253.7	48.3	14.4	6.2	3.1	3.1	4.1	4.1	2.1	0.0
97.6	82.5°	83.2	19.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
24.7	85°	31.8	7.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	12.3	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>
2537.4
2503.5
2201.4
1751.5
1176.2
707.8
524.9
492.1
469.5
438.6
398.6
359.5
319.5
272.2
228.1
194.2
176.7
166.4
159.2
153.1
146.9
138.7
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121.2
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