

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: P941468

Luminaire Tested: **GALN-SB5A-735-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

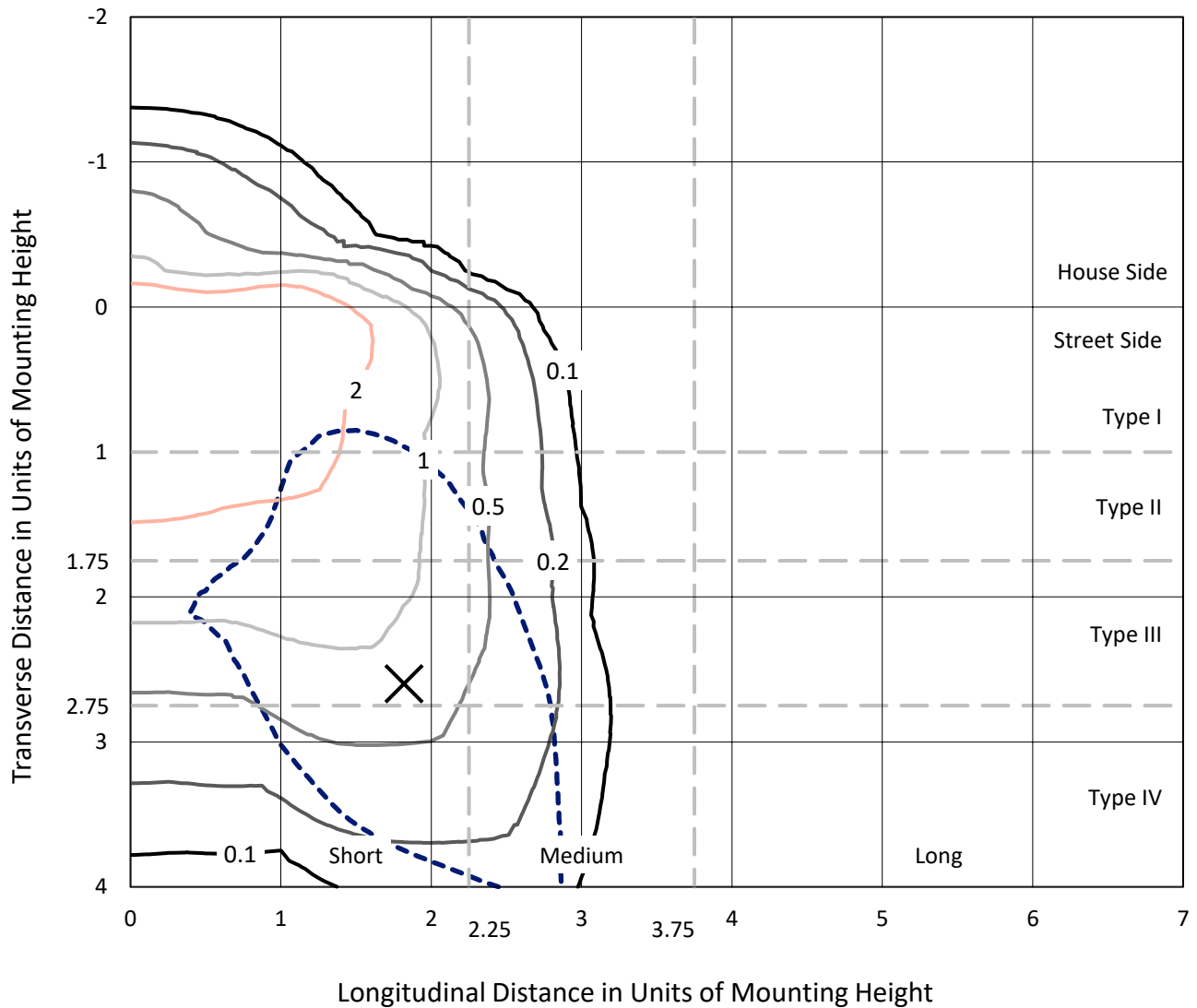
Lumens per Lamp: N/A  
Luminaire Lumens: 17157 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

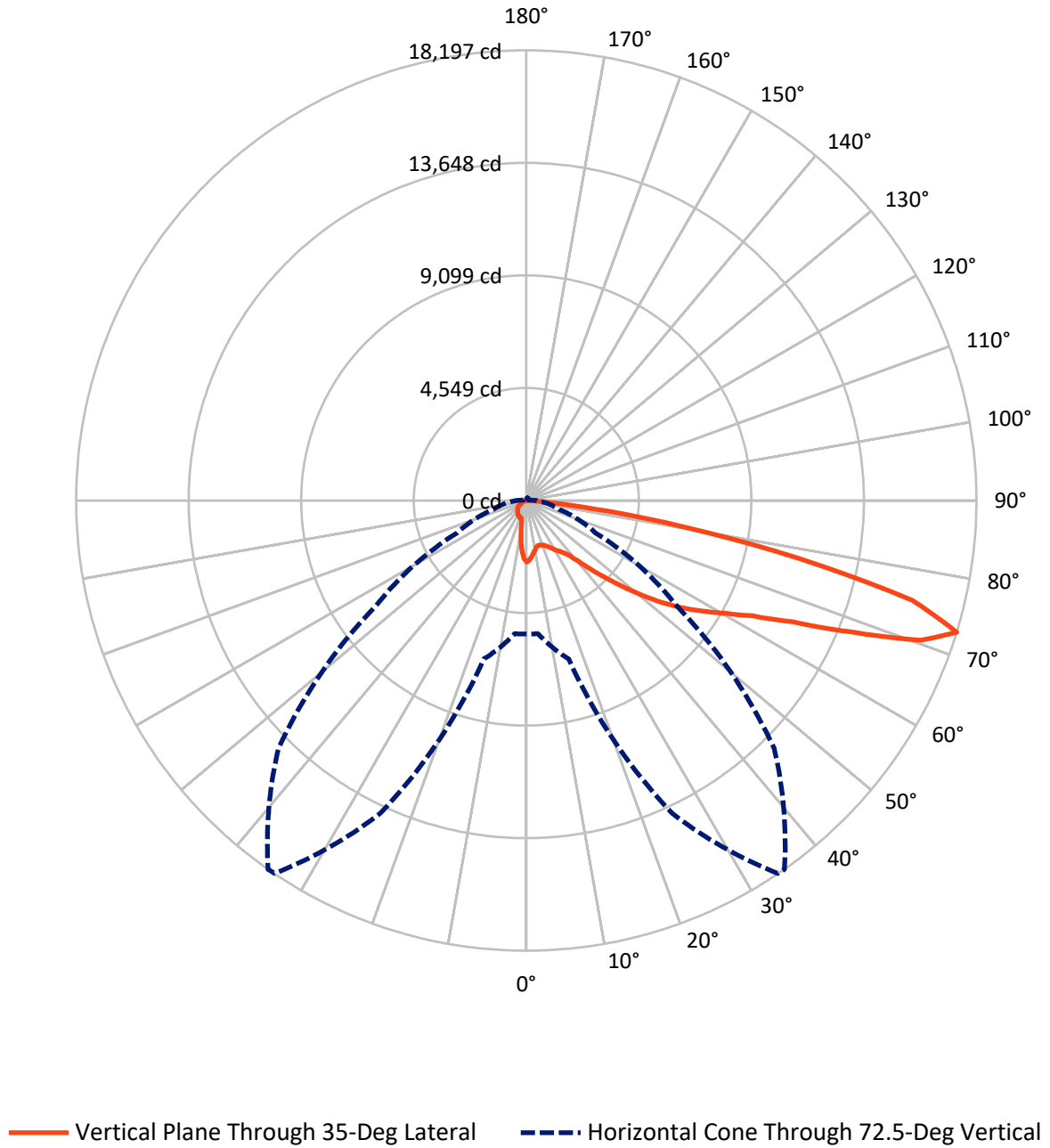
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1930.9	0.0	1930.9
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	15226.1	0.0	15226.1
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	17157.0	0.0	17157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	1.2
10°-20°	478.0	2.8
20°-30°	776.5	4.5
30°-40°	1295.6	7.6
40°-50°	2451.4	14.3
50°-60°	3895.2	22.7
60°-70°	4818.6	28.1
70°-80°	2995.3	17.5
80°-90°	242.1	1.4
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°	17157.0	100.0
0°-180°	17157.0	100.0

**Coefficient of Utilization**



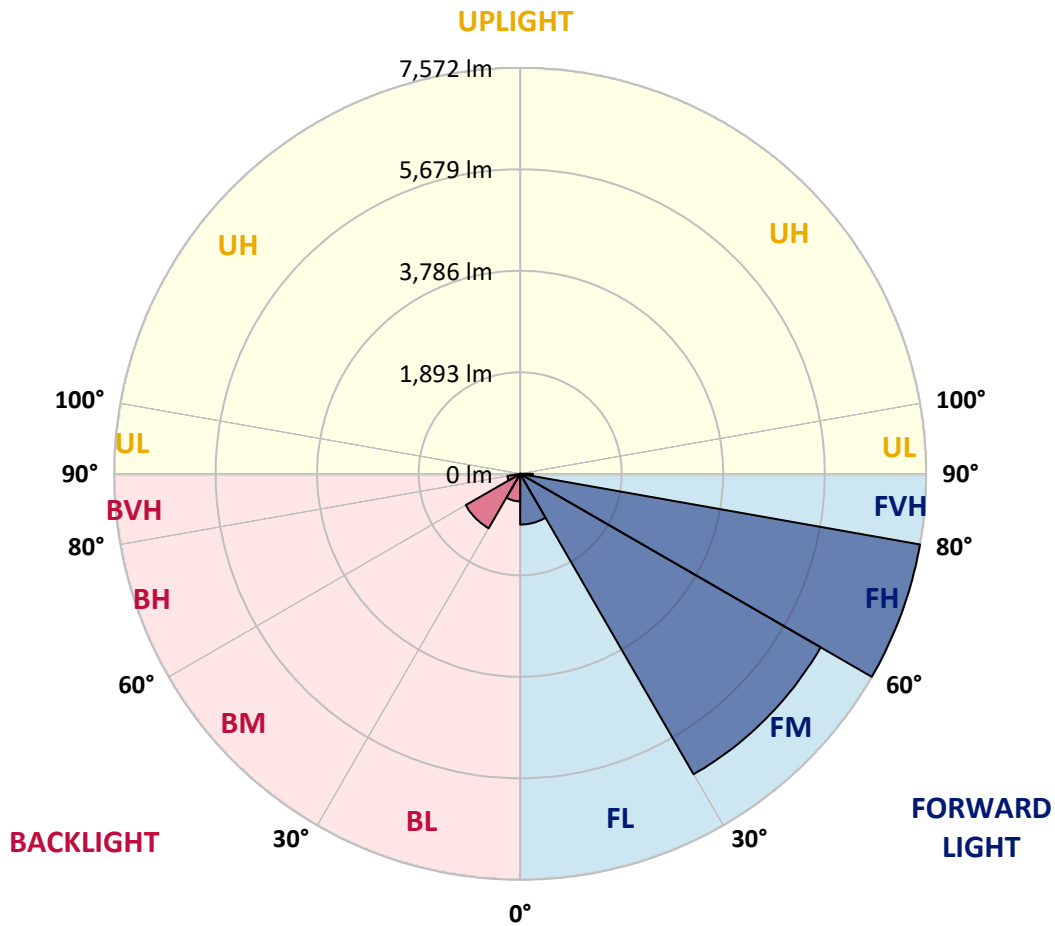
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.8	5.5			
FM (30°-60°)	6469.9	37.7			
FH (60°-80°)	7571.6	44.1			G4/12000
FVH (80°-90°)	238.8	1.4			G3/500
BL (0°-30°)	513.1	3.0	B2/1000		
BM (30°-60°)	1172.3	6.8	B2/2500		
BH (60°-80°)	242.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2.5°	2376.0	2396.1	2399.9	2406.2	2406.2	2413.7	2426.3	2443.9	2472.8	2487.9
5°	2189.9	2205.0	2223.9	2239.0	2267.9	2271.7	2320.7	2368.5	2435.1	2485.4
7.5°	2002.6	2020.2	2045.4	2081.8	2119.5	2130.9	2205.0	2285.5	2391.1	2485.4
10°	1870.6	1871.9	1894.5	1931.0	1991.3	2005.1	2095.7	2210.1	2342.1	2470.3
12.5°	1796.5	1805.3	1815.3	1843.0	1900.8	1909.6	2006.4	2140.9	2293.0	2461.5
15°	1796.5	1802.7	1809.0	1822.9	1869.4	1876.9	1962.4	2096.9	2267.9	2465.3
17.5°	1815.3	1825.4	1820.3	1836.7	1885.7	1890.7	1966.2	2084.3	2266.6	2489.1
20°	1860.6	1868.1	1858.1	1868.1	1917.1	1927.2	2005.1	2108.2	2288.0	2530.6
22.5°	1932.2	1936.0	1912.1	1919.7	1969.9	1982.5	2073.0	2176.1	2339.5	2597.3
25°	2022.7	2030.3	1993.8	2002.6	2050.4	2065.5	2169.8	2277.9	2421.3	2689.0
27.5°	2127.1	2130.9	2099.4	2098.2	2159.8	2181.1	2286.7	2403.7	2530.6	2804.7
30°	2246.5	2257.8	2227.7	2222.6	2300.6	2318.2	2422.5	2558.3	2691.5	2978.2
32.5°	2340.8	2349.6	2332.0	2344.6	2423.8	2437.6	2587.2	2777.0	2944.2	3224.6
35°	2476.6	2481.6	2441.4	2464.0	2554.5	2589.7	2812.2	3083.8	3262.3	3533.8
37.5°	2968.1	2968.1	2797.1	2685.3	2772.0	2803.4	3120.2	3469.7	3654.5	3948.7
40°	3648.2	3636.9	3386.7	3157.9	3146.6	3208.2	3559.0	3956.2	4161.1	4446.5
42.5°	4373.6	4356.0	4015.3	3789.0	3751.3	3772.7	4065.6	4555.9	4764.6	5053.7
45°	5017.2	5012.2	4700.4	4396.2	4328.3	4396.2	4697.9	5257.4	5407.0	5711.2
47.5°	5556.6	5556.6	5329.0	5130.4	5095.2	5135.4	5554.0	6035.5	6021.7	6411.4
50°	6177.6	6172.6	5956.3	5870.8	5907.3	5963.9	6539.6	6855.2	6657.8	7099.1
52.5°	6612.6	6642.7	6568.6	6554.7	6740.8	6838.8	7540.3	7657.2	7227.3	7751.5
55°	6957.0	6992.2	7077.7	7174.5	7532.8	7661.0	8509.6	8417.8	7703.8	8317.2
57.5°	7444.8	7394.5	7526.5	7717.6	8297.1	8451.8	9448.7	9135.6	8087.2	8776.1
60°	8036.9	8044.4	8067.1	8308.4	9060.2	9258.8	10373.9	9814.5	8333.6	9057.7
62.5°	8748.4	8759.8	8806.3	9177.1	10084.8	10272.1	11359.5	10370.2	8446.7	8978.5
65°	8699.4	8747.2	9266.4	10534.8	11642.4	11827.2	12509.8	10759.9	8275.8	8254.4
67.5°	7925.0	8003.0	8871.6	12156.6	13990.7	14196.9	13900.2	10836.6	7537.8	6419.0
70°	6909.2	6936.9	7981.6	13614.8	16709.9	16918.6	15144.8	9993.0	5720.0	3580.3
72.5°	5395.6	5401.9	6627.6	13953.0	18185.8	18197.1	14168.0	7418.4	3076.2	1375.3
75°	3854.4	3816.7	4439.0	11315.5	15999.6	16127.9	10621.6	3479.8	1175.4	649.9
77.5°	2066.7	2108.2	2511.8	6710.6	11052.8	11271.5	5795.4	1003.2	598.4	442.5
80°	638.6	673.8	1029.6	3072.5	6260.6	6392.6	2148.5	446.3	417.4	315.5
82.5°	201.1	208.7	480.2	1291.1	2598.5	2658.9	622.3	252.7	285.4	208.7
85°	57.8	59.1	213.7	481.5	642.4	655.0	174.7	98.1	163.4	129.5
87.5°	6.3	20.1	80.5	80.5	56.6	55.3	18.9	21.4	46.5	16.3
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°
2486.6	0°	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6	2486.6
2497.9	2.5°	2491.7	2492.9	2476.6	2448.9	2418.7	2393.6	2362.2	2337.0	2319.4	2314.4
2520.6	5°	2509.3	2500.5	2453.9	2369.7	2269.1	2182.4	2085.6	2008.9	1958.6	1937.3
2544.5	7.5°	2535.7	2510.5	2408.7	2242.7	2050.4	1879.4	1705.9	1571.4	1485.9	1443.2
2567.1	10°	2558.3	2508.0	2333.3	2059.2	1765.0	1506.1	1272.2	1110.1	1019.5	976.8
2593.5	12.5°	2579.7	2506.7	2235.2	1841.7	1443.2	1126.4	908.9	828.5	803.3	794.5
2636.2	15°	2619.9	2510.5	2112.0	1592.8	1122.6	851.1	771.9	770.6	775.7	773.1
2701.6	17.5°	2675.2	2514.3	1972.5	1328.8	866.2	750.5	746.7	758.1	765.6	761.8
2783.3	20°	2746.9	2529.4	1824.1	1067.3	744.2	725.4	734.2	744.2	750.5	744.2
2892.7	22.5°	2847.4	2555.8	1661.9	857.4	705.3	710.3	717.8	729.1	735.4	726.6
3032.2	25°	2970.6	2597.3	1502.3	745.5	686.4	692.7	704.0	716.6	724.1	715.3
3208.2	27.5°	3130.3	2663.9	1355.2	720.3	667.5	671.3	687.7	706.5	716.6	705.3
3458.4	30°	3361.6	2773.3	1228.2	731.7	656.2	647.4	670.1	696.5	707.8	697.7
3799.1	32.5°	3668.3	2927.9	1150.3	749.3	651.2	619.8	641.1	675.1	693.9	687.7
4244.1	35°	4070.6	3163.0	1120.1	769.4	647.4	590.9	605.9	642.4	675.1	681.4
4804.8	37.5°	4558.4	3489.8	1128.9	778.2	636.1	567.0	574.5	605.9	648.7	668.8
5435.9	40°	5112.8	3870.7	1179.2	769.4	623.5	546.9	548.1	572.0	609.7	639.9
6114.7	42.5°	5684.8	4315.8	1272.2	736.7	612.2	529.3	525.5	541.8	567.0	588.3
6792.3	45°	6229.1	4773.4	1364.0	691.4	598.4	511.7	502.9	509.1	514.2	523.0
7452.3	47.5°	6704.3	5095.2	1337.6	649.9	579.5	491.5	476.5	473.9	458.9	457.6
8041.9	50°	7032.4	5165.6	1188.0	608.5	551.9	468.9	445.0	429.9	403.5	391.0
8483.2	52.5°	7136.8	4887.8	970.5	567.0	506.6	438.7	404.8	380.9	348.2	336.9
8737.1	55°	6998.5	4343.4	775.7	516.7	443.8	398.5	360.8	329.4	303.0	289.1
8764.8	57.5°	6660.3	3650.7	613.5	457.6	377.1	353.3	315.5	284.1	261.5	247.7
8458.0	60°	6099.6	2899.0	485.3	387.2	321.8	304.2	265.3	245.1	225.0	208.7
7666.0	62.5°	5248.6	2069.3	380.9	306.7	269.0	248.9	226.3	211.2	187.3	164.7
6241.7	65°	4095.8	1265.9	294.2	225.0	216.2	206.2	192.3	178.5	149.6	127.0
4071.9	67.5°	2583.4	599.7	209.9	169.7	171.0	165.9	159.7	148.3	127.0	106.9
1824.1	70°	1137.7	290.4	138.3	129.5	127.0	127.0	132.0	128.2	108.1	89.3
633.6	72.5°	387.2	155.9	103.1	98.1	91.8	90.5	110.6	106.9	86.7	69.1
315.5	75°	202.4	104.3	75.4	70.4	55.3	66.6	88.0	83.0	61.6	45.3
208.7	77.5°	132.0	74.2	51.5	45.3	31.4	44.0	65.4	57.8	36.5	22.6
137.0	80°	83.0	49.0	30.2	21.4	15.1	23.9	35.2	25.1	13.8	5.0
80.5	82.5°	44.0	25.1	11.3	7.5	6.3	7.5	8.8	6.3	2.5	0.0
41.5	85°	17.6	8.8	3.8	2.5	1.3	0.0	2.5	1.3	0.0	0.0
7.5	87.5°	6.3	1.3	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>
2486.6
2323.2
1944.8
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978.1
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771.9
760.6
743.0
725.4
714.1
705.3
696.5
687.7
681.4
673.8
649.9
597.1
528.0
456.3
392.2
335.7
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