

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: P939718

Luminaire Tested: **GALN-SB2B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939718  
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-SB2B-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

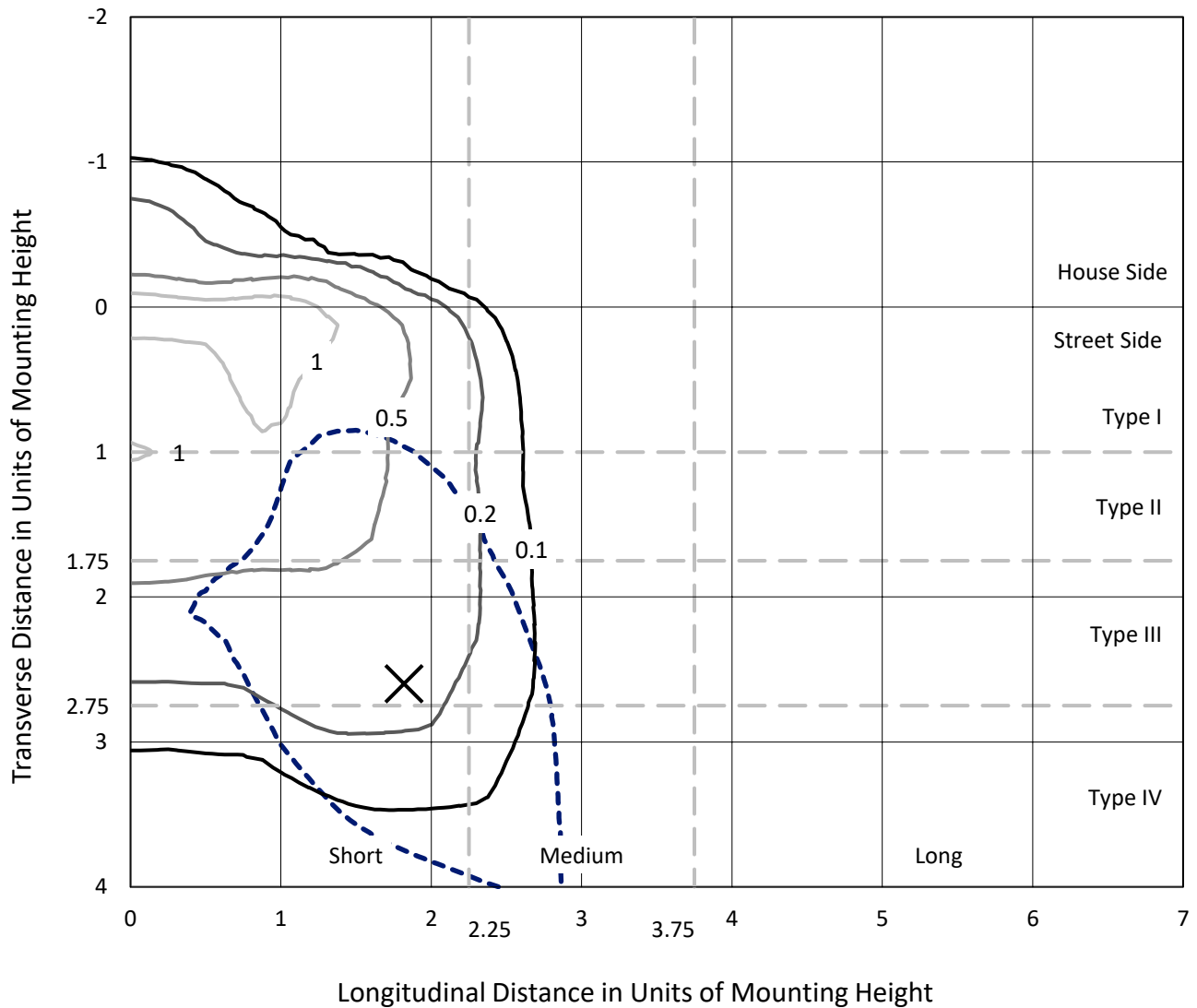
Lumens per Lamp: N/A  
Luminaire Lumens: 6178 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

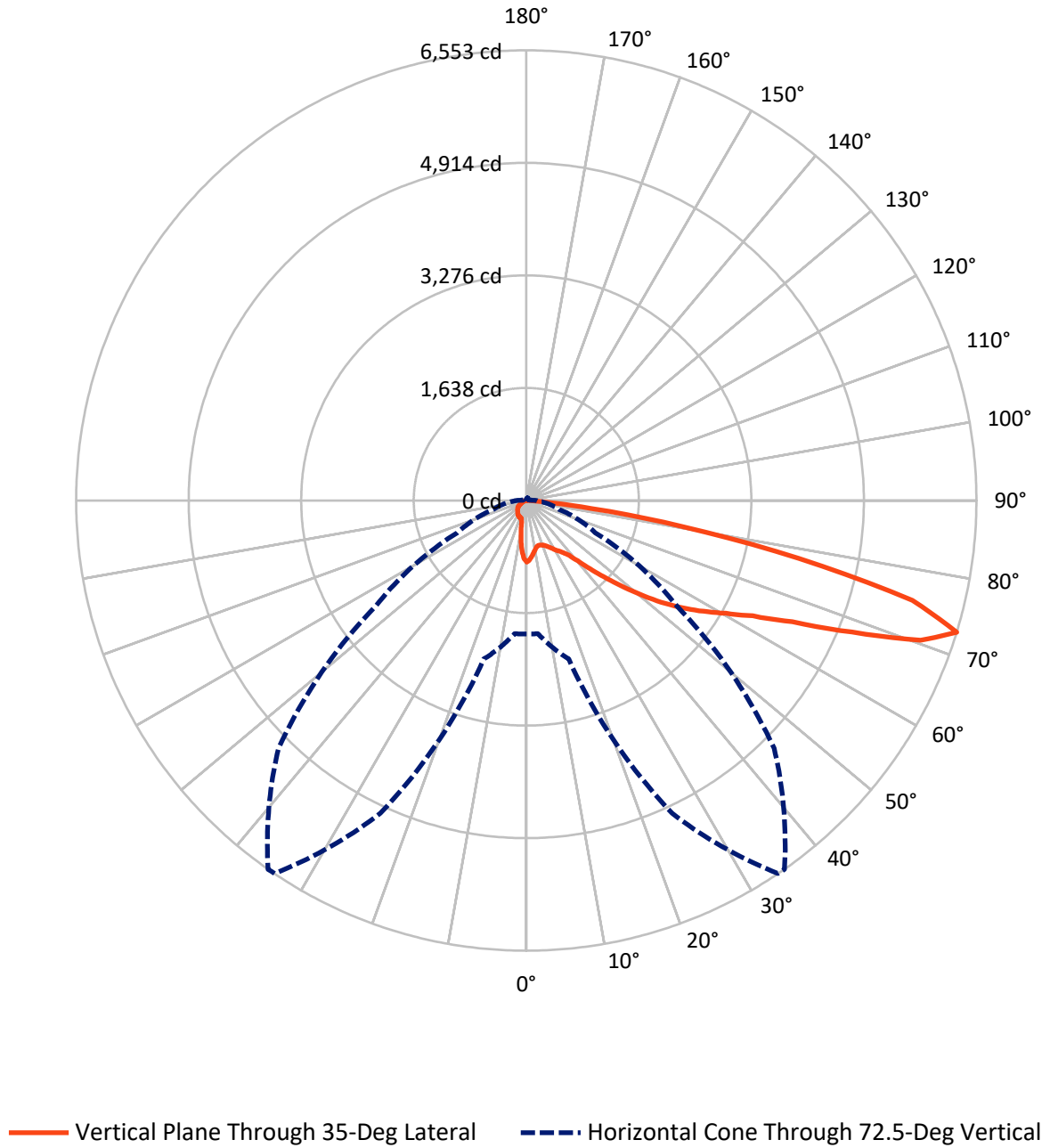
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	695.3	0.0	695.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	5482.7	0.0	5482.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	6178.0	0.0	6178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.2
10°-20°	172.1	2.8
20°-30°	279.6	4.5
30°-40°	466.5	7.6
40°-50°	882.7	14.3
50°-60°	1402.6	22.7
60°-70°	1735.1	28.1
70°-80°	1078.6	17.5
80°-90°	87.2	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°	6178.0	100.0
0°-180°	6178.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939718

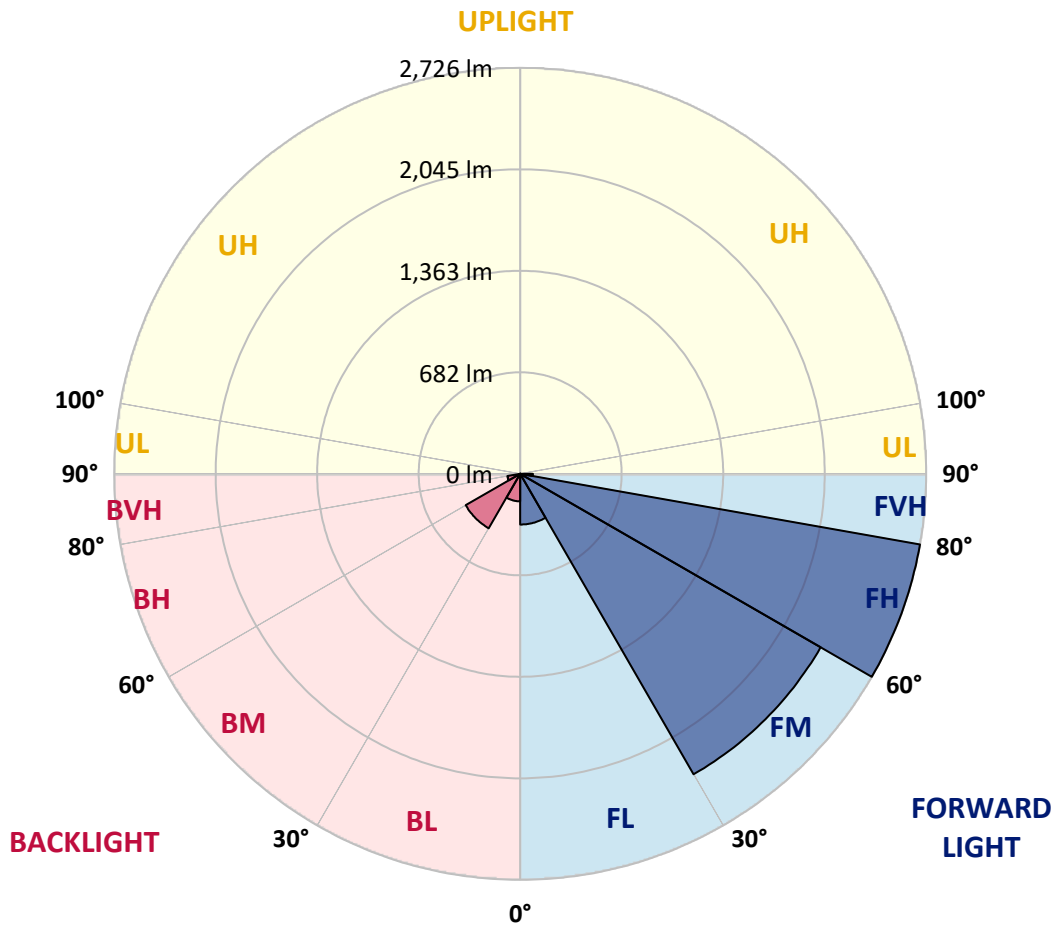
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.6	5.5			
FM (30°-60°)	2329.7	37.7			
FH (60°-80°)	2726.4	44.1			G2/5000
FVH (80°-90°)	86.0	1.4			G1/100
BL (0°-30°)	184.8	3.0	B1/500		
BM (30°-60°)	422.1	6.8	B1/1000		
BH (60°-80°)	87.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2**

Type IV Short



REPORT NUMBER: P939718

CATALOG NUMBER: GALN-SB2B-940-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
2.5°	855.6	862.8	864.2	866.4	866.4	869.1	873.7	880.0	890.4	895.9
5°	788.6	794.0	800.8	806.2	816.6	818.0	835.6	852.8	876.8	894.9
7.5°	721.1	727.5	736.5	749.6	763.2	767.3	794.0	823.0	861.0	894.9
10°	673.6	674.0	682.2	695.3	717.0	722.0	754.6	795.8	843.3	889.5
12.5°	646.9	650.0	653.7	663.6	684.5	687.6	722.5	770.9	825.7	886.3
15°	646.9	649.1	651.4	656.4	673.1	675.8	706.6	755.1	816.6	887.7
17.5°	653.7	657.3	655.5	661.4	679.0	680.8	708.0	750.5	816.2	896.3
20°	670.0	672.7	669.1	672.7	690.3	694.0	722.0	759.1	823.9	911.2
22.5°	695.8	697.1	688.5	691.2	709.3	713.9	746.5	783.6	842.4	935.2
25°	728.4	731.1	717.9	721.1	738.3	743.8	781.3	820.3	871.9	968.3
27.5°	765.9	767.3	756.0	755.5	777.7	785.4	823.4	865.5	911.2	1009.9
30°	808.9	813.0	802.1	800.3	828.4	834.7	872.3	921.2	969.2	1072.4
32.5°	842.9	846.1	839.7	844.2	872.8	877.7	931.6	1000.0	1060.2	1161.1
35°	891.8	893.6	879.1	887.3	919.8	932.5	1012.6	1110.4	1174.7	1272.5
37.5°	1068.8	1068.8	1007.2	966.9	998.2	1009.5	1123.5	1249.4	1315.9	1421.9
40°	1313.7	1309.6	1219.5	1137.1	1133.1	1155.2	1281.5	1424.6	1498.4	1601.1
42.5°	1574.9	1568.5	1445.9	1364.4	1350.8	1358.5	1464.0	1640.5	1715.7	1819.8
45°	1806.6	1804.8	1692.6	1583.0	1558.6	1583.0	1691.7	1893.1	1947.0	2056.5
47.5°	2000.8	2000.8	1918.9	1847.4	1834.7	1849.2	1999.9	2173.3	2168.3	2308.7
50°	2224.5	2222.7	2144.8	2114.0	2127.1	2147.5	2354.8	2468.5	2397.4	2556.3
52.5°	2381.1	2392.0	2365.2	2360.3	2427.3	2462.6	2715.2	2757.3	2602.5	2791.2
55°	2505.1	2517.8	2548.6	2583.4	2712.5	2758.6	3064.2	3031.1	2774.0	2994.9
57.5°	2680.8	2662.7	2710.2	2779.0	2987.7	3043.4	3402.3	3289.6	2912.1	3160.2
60°	2894.0	2896.7	2904.8	2991.8	3262.5	3334.0	3735.5	3534.1	3000.8	3261.6
62.5°	3150.2	3154.3	3171.0	3304.6	3631.4	3698.8	4090.4	3734.2	3041.6	3233.0
65°	3132.5	3149.7	3336.7	3793.5	4192.3	4258.8	4504.6	3874.5	2980.0	2972.3
67.5°	2853.7	2881.8	3194.6	4377.4	5037.9	5112.1	5005.3	3902.1	2714.3	2311.4
70°	2487.9	2497.9	2874.1	4902.5	6017.0	6092.2	5453.4	3598.3	2059.7	1289.2
72.5°	1942.9	1945.2	2386.5	5024.3	6548.5	6552.5	5101.7	2671.3	1107.7	495.2
75°	1387.9	1374.3	1598.4	4074.6	5761.2	5807.4	3824.7	1253.0	423.3	234.0
77.5°	744.2	759.1	904.5	2416.4	3980.0	4058.7	2086.9	361.2	215.5	159.3
80°	230.0	242.6	370.7	1106.3	2254.3	2301.9	773.6	160.7	150.3	113.6
82.5°	72.4	75.1	172.9	464.9	935.7	957.4	224.1	91.0	102.8	75.1
85°	20.8	21.3	77.0	173.4	231.3	235.8	62.9	35.3	58.8	46.6
87.5°	2.3	7.2	29.0	29.0	20.4	19.9	6.8	7.7	16.7	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939718  
 CATALOG NUMBER: GALN-SB2B-940-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
895.4	0°	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4	895.4
899.5	2.5°	897.2	897.7	891.8	881.8	871.0	861.9	850.6	841.5	835.2	833.4
907.6	5°	903.5	900.4	883.6	853.3	817.1	785.9	751.0	723.4	705.3	697.6
916.2	7.5°	913.1	904.0	867.3	807.6	738.3	676.8	614.3	565.8	535.1	519.7
924.4	10°	921.2	903.1	840.2	741.5	635.6	542.3	458.1	399.7	367.1	351.7
933.9	12.5°	928.9	902.6	804.9	663.2	519.7	405.6	327.3	298.3	289.3	286.1
949.3	15°	943.4	904.0	760.5	573.5	404.2	306.5	277.9	277.5	279.3	278.4
972.8	17.5°	963.3	905.4	710.3	478.5	311.9	270.2	268.9	273.0	275.7	274.3
1002.2	20°	989.1	910.8	656.8	384.3	268.0	261.2	264.4	268.0	270.2	268.0
1041.6	22.5°	1025.3	920.3	598.4	308.7	254.0	255.8	258.5	262.6	264.8	261.6
1091.9	25°	1069.7	935.2	541.0	268.4	247.2	249.4	253.5	258.0	260.7	257.6
1155.2	27.5°	1127.2	959.2	488.0	259.4	240.4	241.7	247.6	254.4	258.0	254.0
1245.3	30°	1210.5	998.6	442.3	263.5	236.3	233.1	241.3	250.8	254.9	251.2
1368.0	32.5°	1320.9	1054.3	414.2	269.8	234.5	223.2	230.9	243.1	249.9	247.6
1528.2	35°	1465.8	1138.9	403.3	277.0	233.1	212.8	218.2	231.3	243.1	245.4
1730.1	37.5°	1641.4	1256.6	406.5	280.2	229.1	204.2	206.9	218.2	233.6	240.8
1957.4	40°	1841.0	1393.8	424.6	277.0	224.5	196.9	197.4	206.0	219.5	230.4
2201.8	42.5°	2047.0	1554.0	458.1	265.3	220.5	190.6	189.2	195.1	204.2	211.9
2445.8	45°	2243.0	1718.8	491.2	249.0	215.5	184.2	181.1	183.3	185.1	188.3
2683.5	47.5°	2414.1	1834.7	481.7	234.0	208.7	177.0	171.6	170.7	165.2	164.8
2895.8	50°	2532.3	1860.1	427.8	219.1	198.7	168.8	160.2	154.8	145.3	140.8
3054.7	52.5°	2569.9	1760.0	349.5	204.2	182.4	158.0	145.8	137.2	125.4	121.3
3146.1	55°	2520.1	1564.0	279.3	186.1	159.8	143.5	129.9	118.6	109.1	104.1
3156.1	57.5°	2398.3	1314.6	220.9	164.8	135.8	127.2	113.6	102.3	94.2	89.2
3045.6	60°	2196.4	1043.9	174.7	139.4	115.9	109.5	95.5	88.3	81.0	75.1
2760.4	62.5°	1889.9	745.1	137.2	110.5	96.9	89.6	81.5	76.1	67.4	59.3
2247.6	65°	1474.8	455.8	105.9	81.0	77.9	74.2	69.3	64.3	53.9	45.7
1466.2	67.5°	930.3	215.9	75.6	61.1	61.6	59.8	57.5	53.4	45.7	38.5
656.8	70°	409.7	104.6	49.8	46.6	45.7	45.7	47.5	46.2	38.9	32.1
228.2	72.5°	139.4	56.1	37.1	35.3	33.0	32.6	39.8	38.5	31.2	24.9
113.6	75°	72.9	37.6	27.2	25.4	19.9	24.0	31.7	29.9	22.2	16.3
75.1	77.5°	47.5	26.7	18.6	16.3	11.3	15.8	23.5	20.8	13.1	8.1
49.3	80°	29.9	17.7	10.9	7.7	5.4	8.6	12.7	9.1	5.0	1.8
29.0	82.5°	15.8	9.1	4.1	2.7	2.3	2.7	3.2	2.3	0.9	0.0
14.9	85°	6.3	3.2	1.4	0.9	0.5	0.0	0.9	0.5	0.0	0.0
2.7	87.5°	2.3	0.5	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>
895.4
836.6
700.3
521.9
352.2
285.2
277.9
273.9
267.5
261.2
257.1
254.0
250.8
247.6
245.4
242.6
234.0
215.0
190.1
164.3
141.2
120.9
104.1
88.3
73.8
57.9
44.4
37.6
30.8
23.5
14.9
7.2
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