

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: P946886

Luminaire Tested: **GALN-SB2B-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946886  
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-SB2B-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

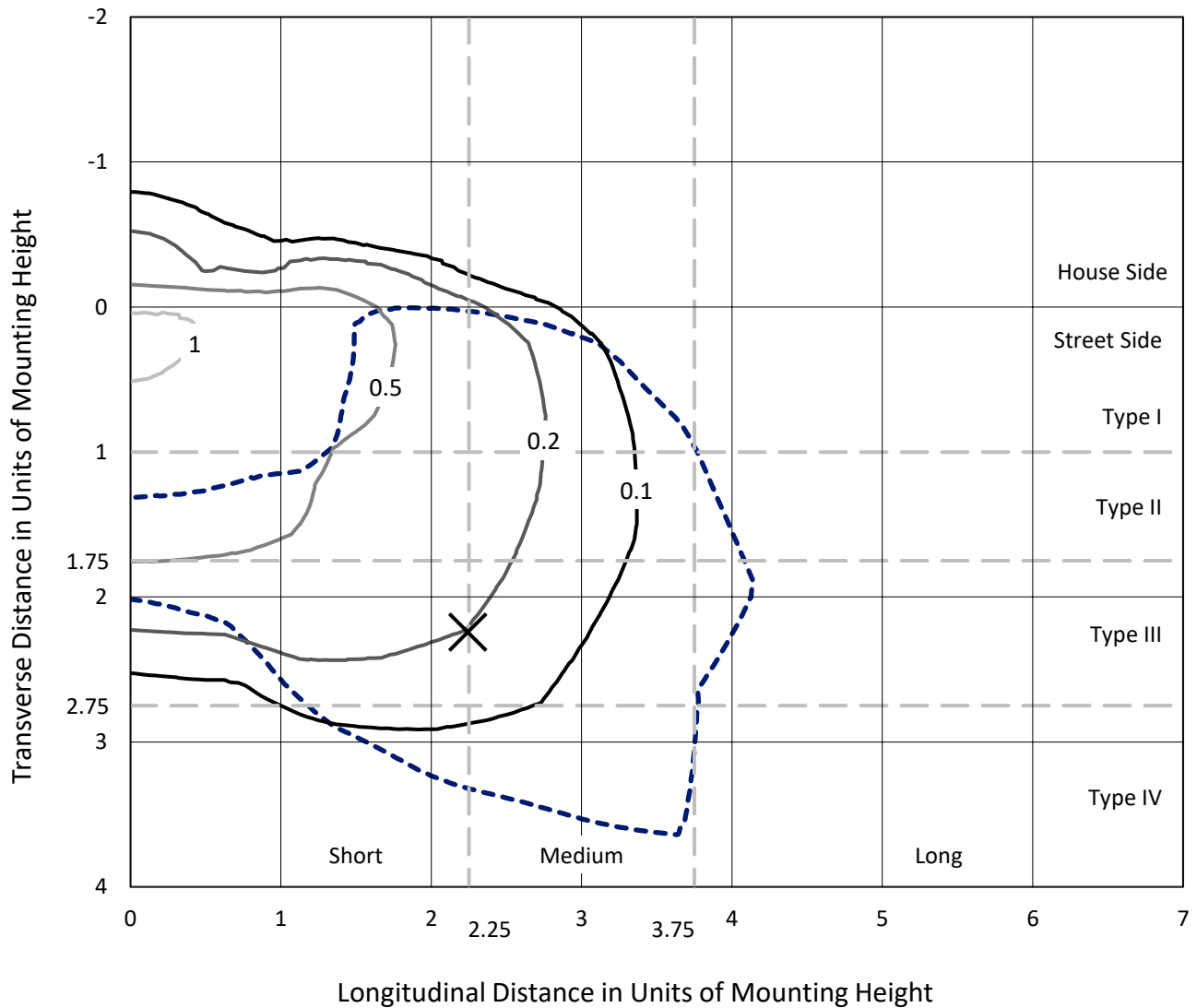
Lumens per Lamp: N/A  
Luminaire Lumens: 5280 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

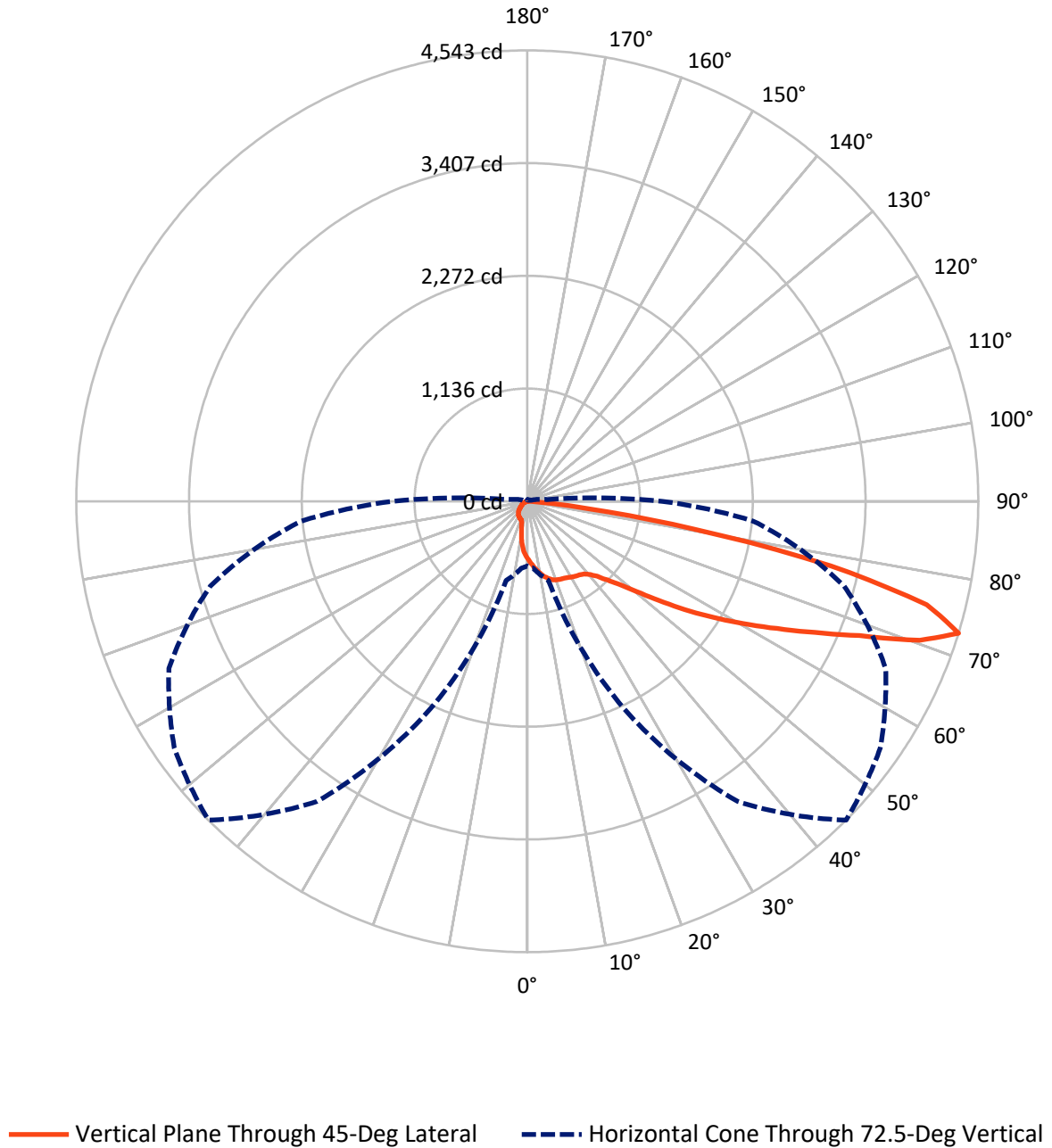
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	554.8	0.0	554.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	4725.2	0.0	4725.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	5280.0	0.0	5280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	1.0
10°-20°	159.3	3.0
20°-30°	261.6	5.0
30°-40°	371.0	7.0
40°-50°	613.2	11.6
50°-60°	1101.5	20.9
60°-70°	1529.4	29.0
70°-80°	1109.4	21.0
80°-90°	80.2	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°	5280.0	100.0
0°-180°	5280.0	100.0

**Coefficient of Utilization**



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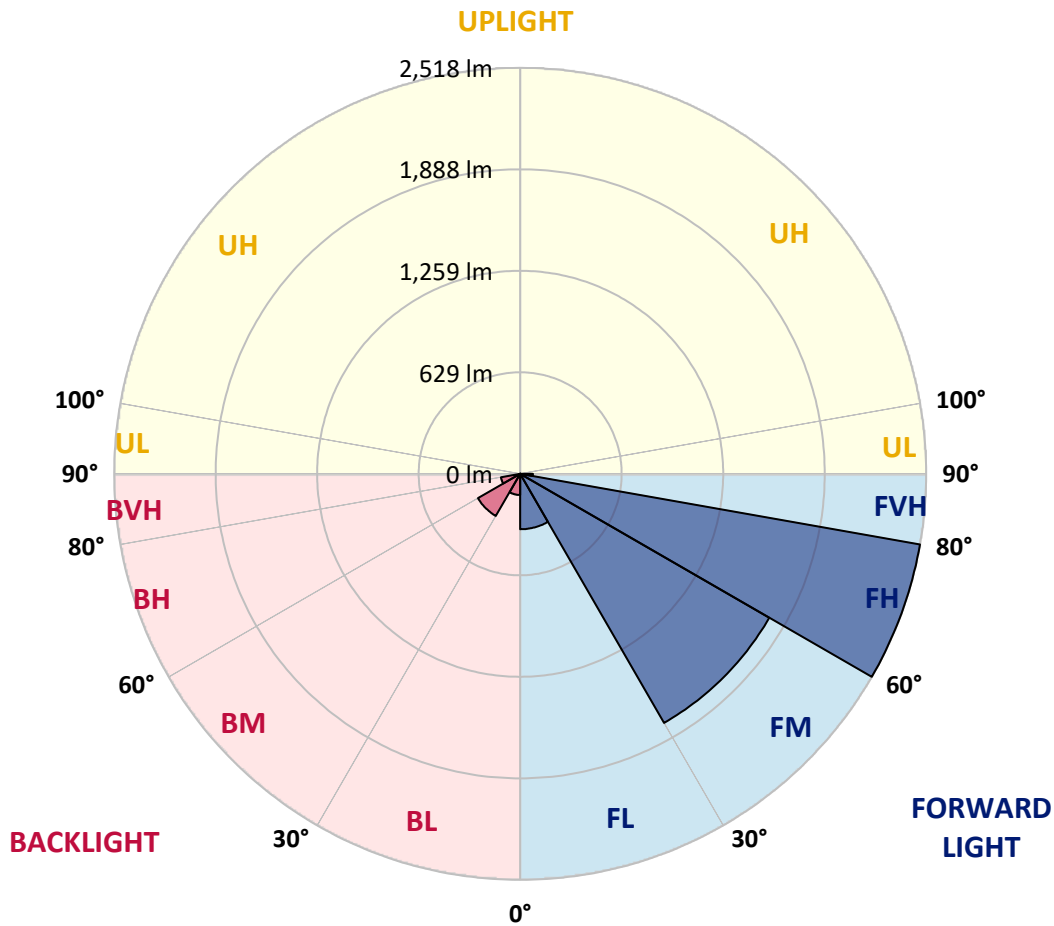
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.9	6.5			
FM (30°-60°)	1783.9	33.8			
FH (60°-80°)	2517.9	47.7			G2/5000
FVH (80°-90°)	79.5	1.5			G1/100
BL (0°-30°)	131.4	2.5	B1/500		
BM (30°-60°)	301.7	5.7	B1/1000		
BH (60°-80°)	121.0	2.3	B1/500		G1/500
BVH (80°-90°)	0.7	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4
2.5°	631.8	632.9	632.1	627.8	620.6	616.6	614.5	607.3	602.6	594.3
5°	689.8	694.1	691.6	683.0	669.3	659.5	656.6	641.9	628.5	613.0
7.5°	751.4	753.6	748.9	737.7	719.3	702.8	700.2	679.7	658.4	634.7
10°	804.8	807.3	800.1	783.9	763.0	742.4	738.8	716.1	690.9	661.7
12.5°	849.5	852.0	842.6	823.1	800.1	778.8	775.2	751.4	723.7	691.2
15°	883.3	888.0	875.4	854.5	829.6	808.4	806.6	783.1	756.1	720.1
17.5°	903.2	907.8	895.9	870.7	849.5	831.4	829.3	809.8	784.6	750.0
20°	906.4	910.7	898.1	876.1	858.5	844.0	843.0	828.9	810.5	777.4
22.5°	896.7	902.1	890.5	872.9	860.6	853.1	851.6	843.7	833.2	805.1
25°	886.6	890.9	882.2	866.8	860.3	859.5	860.6	859.2	857.0	833.2
27.5°	885.9	890.5	880.8	866.0	862.4	870.0	871.1	877.9	879.7	858.8
30°	892.0	895.2	885.9	870.4	868.6	885.9	886.2	898.5	901.3	880.4
32.5°	905.3	908.9	899.5	876.8	874.3	898.5	899.5	915.8	920.5	903.5
35°	936.7	941.0	930.2	894.9	885.9	910.4	913.6	932.7	942.1	928.0
37.5°	1014.9	1002.3	987.5	931.3	912.2	929.1	934.5	956.9	973.4	957.2
40°	1209.1	1169.5	1123.4	993.3	958.3	969.1	973.4	995.8	1018.5	1002.6
42.5°	1500.7	1453.8	1379.6	1136.0	1027.8	1033.3	1036.5	1056.0	1088.0	1075.4
45°	1760.5	1743.6	1667.9	1379.6	1158.0	1131.3	1135.2	1145.3	1192.5	1187.9
47.5°	1960.2	1950.5	1892.1	1659.3	1377.8	1251.3	1262.5	1267.2	1335.3	1351.8
50°	2113.7	2110.1	2057.9	1907.9	1665.0	1428.2	1432.2	1422.1	1524.1	1565.2
52.5°	2258.6	2270.9	2232.3	2138.9	1971.7	1660.0	1659.3	1611.7	1749.4	1811.3
55°	2389.4	2393.7	2397.7	2374.6	2280.2	1923.8	1916.9	1839.1	2010.6	2074.8
57.5°	2512.3	2514.1	2549.4	2596.7	2601.3	2207.1	2194.4	2101.1	2296.1	2341.9
60°	2594.8	2603.1	2677.7	2808.9	2866.2	2499.3	2492.5	2397.4	2586.6	2607.8
62.5°	2475.9	2526.4	2714.5	2974.7	3116.3	2823.3	2820.1	2730.7	2892.2	2874.9
65°	2004.2	2089.6	2420.4	3086.8	3361.8	3185.2	3189.9	3094.7	3206.1	3149.9
67.5°	1401.9	1492.0	1883.4	3095.8	3636.0	3610.1	3637.1	3487.9	3539.4	3413.3
70°	969.5	1016.0	1270.8	2901.9	3849.7	4195.4	4194.6	3970.8	3871.0	3533.3
72.5°	652.0	676.1	825.3	2302.2	3692.6	4543.1	4522.2	4339.9	3982.7	3304.5
75°	275.0	292.6	382.0	1293.8	2921.4	4156.4	4099.9	3835.3	3538.7	2602.1
77.5°	87.2	94.8	150.6	463.1	1609.2	3124.3	3064.4	2395.2	2371.8	1305.4
80°	41.4	48.3	84.7	186.0	633.2	1699.3	1691.0	1086.6	1020.3	352.5
82.5°	18.0	21.3	46.9	99.5	283.3	606.2	618.4	369.8	306.0	133.7
85°	5.8	7.6	21.6	45.8	119.7	150.6	148.8	87.9	123.3	72.8
87.5°	0.0	0.0	7.2	10.5	12.3	8.6	9.7	7.6	34.2	20.2
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°
578.4	0°	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4	578.4
585.6	2.5°	581.3	575.6	565.5	556.1	547.8	539.5	534.5	527.3	526.5	526.5
595.0	5°	585.3	575.9	557.9	538.8	516.8	495.9	475.0	454.8	448.3	443.6
610.2	7.5°	596.8	582.0	553.6	517.2	475.4	429.6	397.5	362.9	349.6	342.4
630.3	10°	613.4	593.2	550.0	486.2	418.4	356.1	310.3	272.8	258.4	252.3
652.3	12.5°	631.8	606.9	543.5	447.6	356.1	281.5	236.8	219.5	217.3	217.3
678.6	15°	653.8	623.5	532.3	402.2	290.8	222.7	206.9	207.6	209.8	211.2
704.2	17.5°	676.5	641.1	514.6	351.4	233.2	200.4	200.7	201.8	203.6	205.1
732.0	20°	701.0	658.8	491.2	297.3	200.0	193.9	195.0	196.1	197.5	198.2
757.9	22.5°	727.3	675.4	463.5	244.3	188.8	188.5	188.8	189.9	191.7	191.7
788.2	25°	755.4	693.8	431.8	205.8	183.1	183.1	183.8	184.5	186.0	186.0
817.4	27.5°	784.2	710.7	398.2	185.6	178.0	177.7	177.7	178.8	179.5	179.8
846.2	30°	815.9	730.5	364.7	181.3	174.1	172.3	171.2	171.9	172.6	173.0
876.5	32.5°	848.4	749.6	334.8	183.1	170.1	166.9	163.3	162.5	162.5	164.0
907.8	35°	884.4	770.5	311.7	189.2	167.9	158.9	153.2	149.9	150.3	152.4
945.3	37.5°	927.7	795.8	294.8	194.6	166.5	149.9	140.6	136.6	134.1	136.6
996.9	40°	984.2	832.9	282.6	198.9	164.7	139.5	126.9	120.4	115.7	117.1
1076.9	42.5°	1067.5	891.3	277.9	199.3	160.7	127.2	112.8	104.2	97.3	97.7
1197.2	45°	1184.3	983.5	302.0	194.6	152.1	113.9	98.0	86.5	82.2	81.1
1377.1	47.5°	1344.3	1117.9	357.9	184.9	139.5	100.9	83.6	73.9	70.6	68.8
1613.1	50°	1558.7	1290.6	419.9	174.1	126.9	88.7	71.7	65.6	63.4	61.6
1893.2	52.5°	1807.4	1465.7	470.7	163.3	114.2	77.8	64.2	60.5	58.7	57.3
2163.5	55°	2035.5	1586.5	467.8	151.7	102.0	69.2	58.7	56.6	54.4	53.0
2396.3	57.5°	2177.5	1603.4	385.6	139.1	87.9	62.3	53.7	52.3	49.7	47.9
2597.7	60°	2242.7	1506.8	270.3	122.5	73.9	55.9	48.3	47.6	44.3	41.8
2788.4	62.5°	2254.6	1327.3	180.2	102.0	61.6	49.7	42.9	41.8	37.5	33.2
2943.4	65°	2206.3	1070.7	124.7	79.6	52.6	43.2	36.8	34.6	29.9	25.6
2980.1	67.5°	2053.5	751.8	86.9	57.3	44.7	34.2	29.2	28.5	24.9	21.3
2792.7	70°	1773.5	428.5	58.0	42.9	35.3	23.4	23.1	23.8	20.2	17.3
2281.7	72.5°	1359.8	196.1	36.0	31.4	24.1	15.9	18.4	18.7	15.5	13.0
1423.6	75°	800.4	84.0	22.7	20.2	12.3	10.5	13.3	13.7	10.5	8.3
520.4	77.5°	272.5	31.7	14.4	11.9	6.1	5.8	8.6	8.6	5.8	3.2
104.5	80°	62.0	11.9	7.2	4.7	2.9	2.5	2.9	2.5	1.4	0.4
32.1	82.5°	17.7	4.7	2.9	1.8	1.1	1.1	0.4	0.0	0.0	0.0
11.2	85°	5.0	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
4.0	87.5°	2.2	0.4	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>
578.4
528.3
445.8
343.5
252.3
217.3
211.2
205.1
198.6
192.5
186.3
180.2
173.7
165.1
153.5
135.9
116.4
96.2
79.6
67.8
61.3
56.9
52.3
47.6
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31.0
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