

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: P941725

Luminaire Tested: **GALN-SB5B-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17156 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

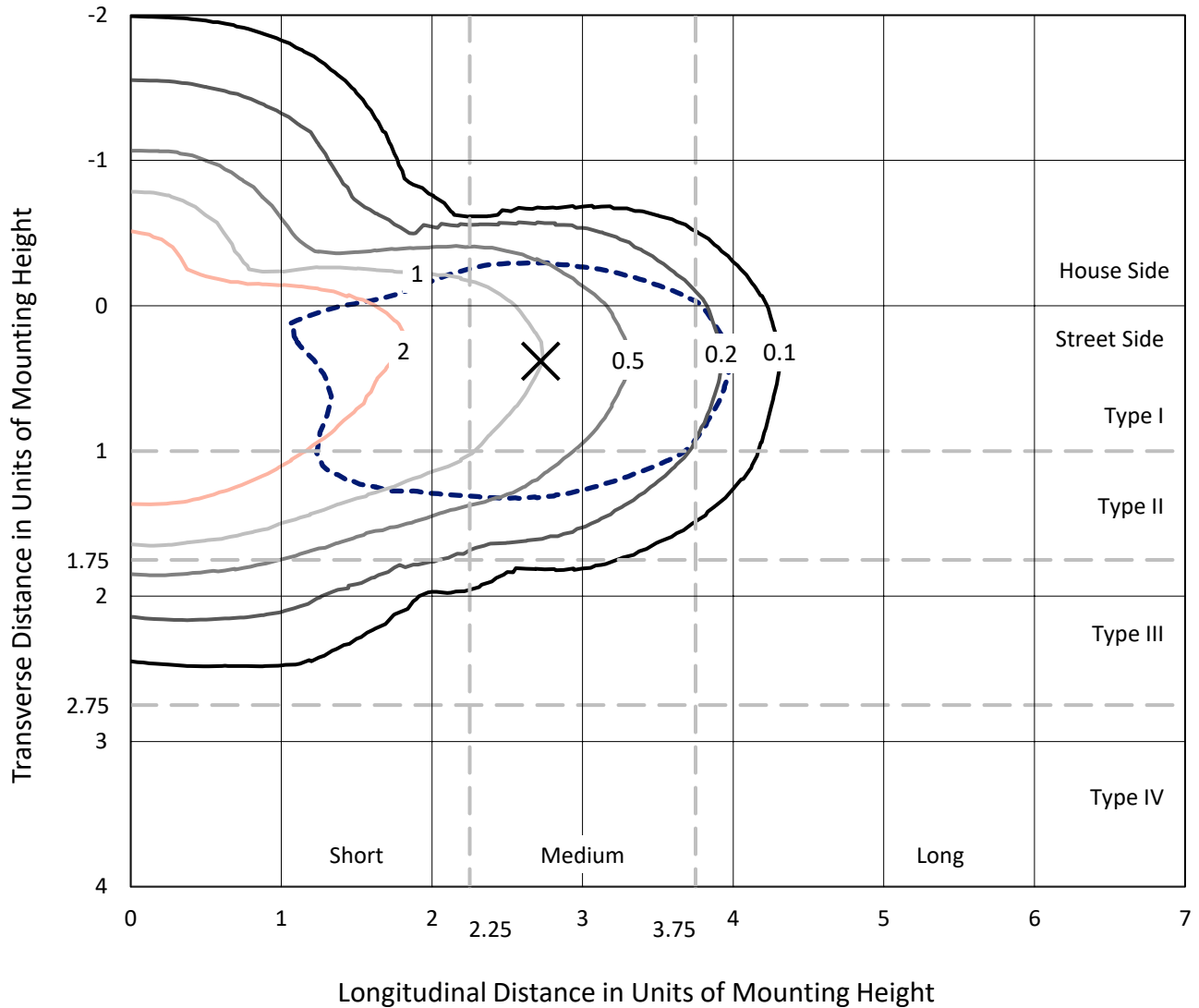
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941725
 CATALOG NUMBER: GALN-SB5B-927-U-T2

Iso-Footcandle Lines of Horizontal Illumination

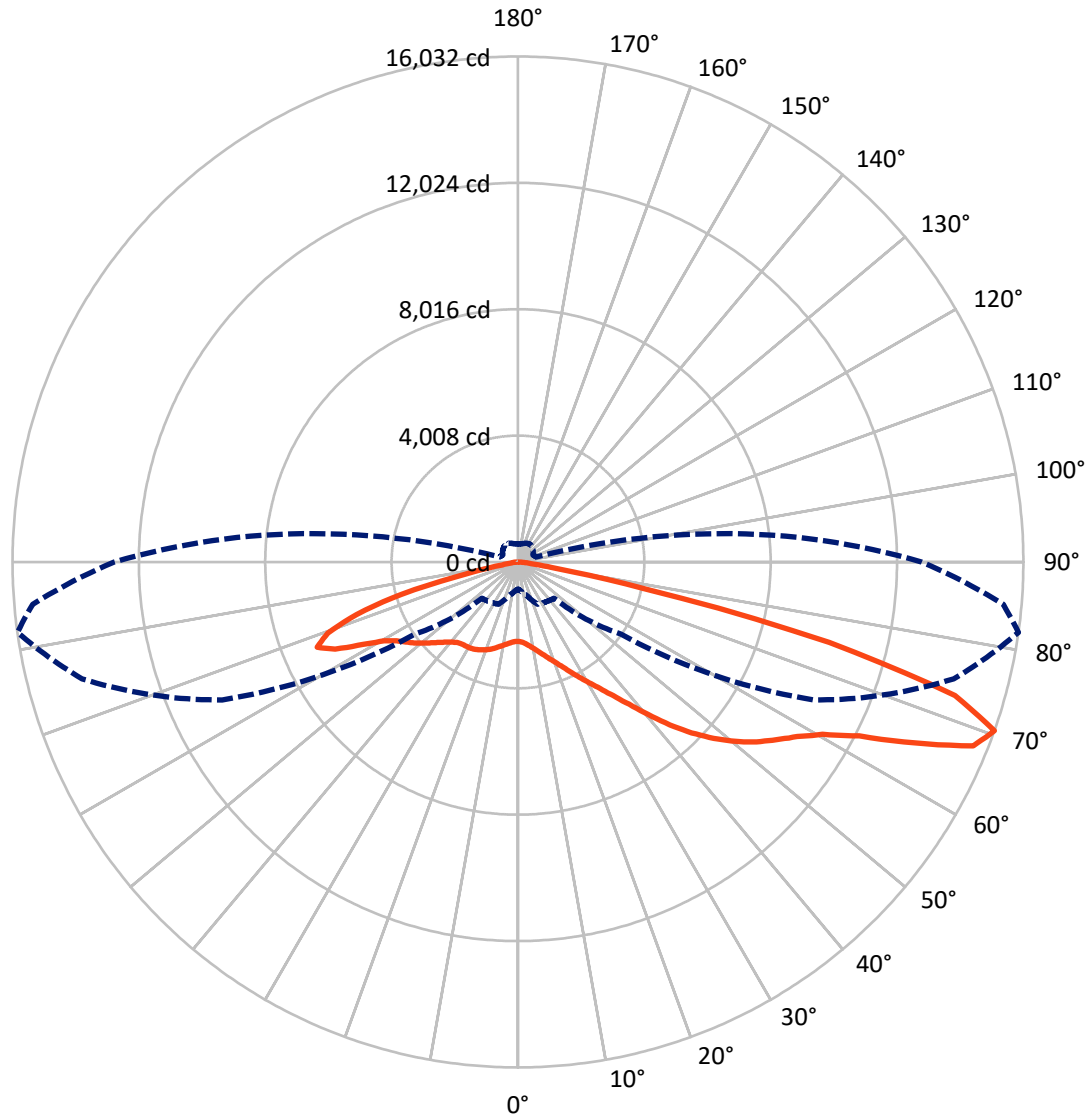
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P941725
CATALOG NUMBER: GALN-SB5B-927-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4229.4	0.0	4229.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12926.6	0.0	12926.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	17156.0	0.0	17156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.4
10°-20°	682.3	4.0
20°-30°	1141.4	6.7
30°-40°	1783.2	10.4
40°-50°	2840.0	16.6
50°-60°	3952.2	23.0
60°-70°	4134.2	24.1
70°-80°	2160.8	12.6
80°-90°	224.4	1.3
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°	17156.0	100.0
0°-180°	17156.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941725

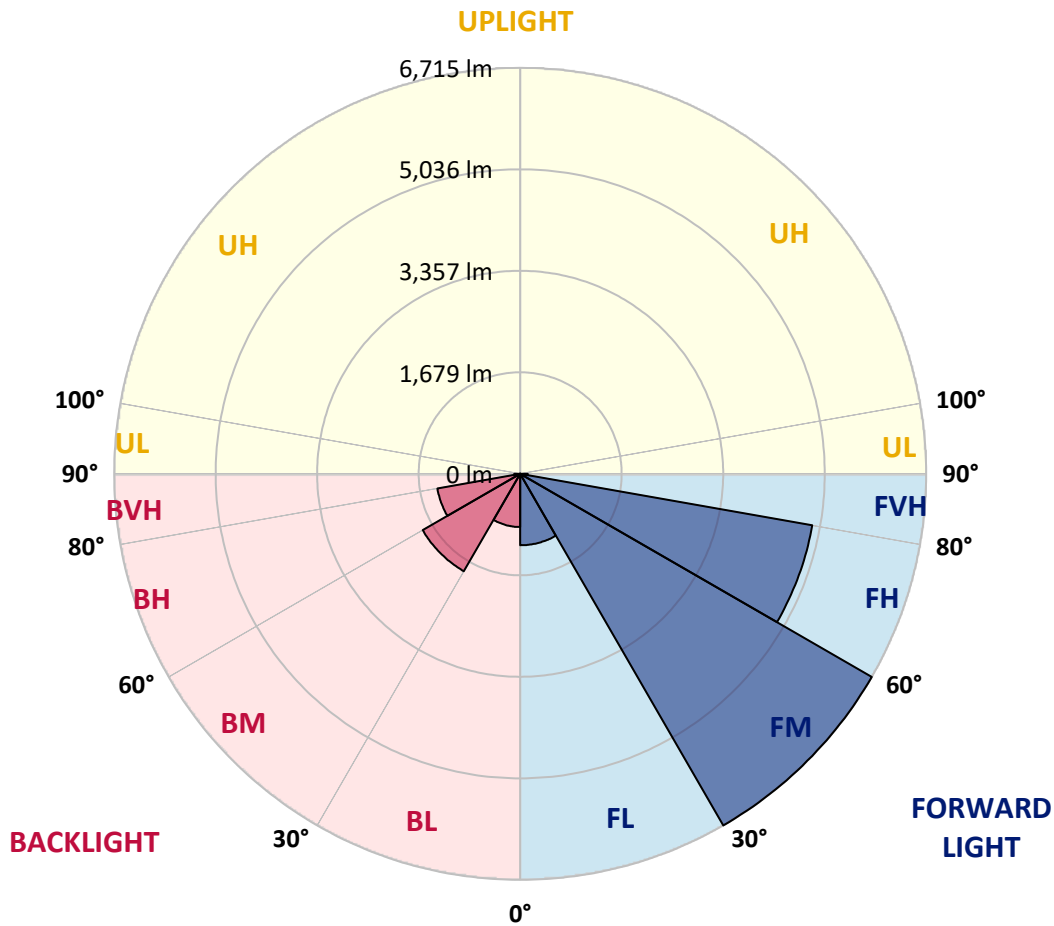
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1181.4	6.9			
FM (30°-60°)	6714.7	39.1			
FH (60°-80°)	4905.0	28.6			G2/5000
FVH (80°-90°)	125.6	0.7			G2/225
BL (0°-30°)	879.9	5.1	B2/1000		
BM (30°-60°)	1860.8	10.8	B2/2500		
BH (60°-80°)	1390.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	98.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P941725

CATALOG NUMBER: GALN-SB5B-927-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3
2.5°	2575.4	2589.9	2585.4	2580.8	2580.8	2574.5	2573.5	2564.4	2557.2	2545.3
5°	2608.1	2623.6	2621.8	2625.4	2637.3	2640.0	2642.7	2637.3	2622.7	2608.1
7.5°	2579.0	2596.3	2601.8	2623.6	2660.0	2692.8	2717.4	2727.4	2713.7	2692.8
10°	2480.7	2499.8	2518.9	2570.8	2635.4	2712.8	2778.4	2817.5	2814.8	2794.8
12.5°	2281.3	2301.4	2342.3	2443.4	2561.7	2698.3	2820.2	2902.2	2930.4	2915.8
15°	2122.0	2139.3	2170.3	2274.0	2427.9	2635.4	2835.7	2995.0	3067.0	3058.8
17.5°	2117.5	2124.7	2143.9	2193.0	2311.4	2537.1	2819.3	3086.1	3223.5	3222.6
20°	2197.6	2200.3	2211.2	2221.2	2288.6	2462.5	2777.5	3161.6	3399.2	3399.2
22.5°	2308.6	2306.8	2317.7	2308.6	2341.4	2456.1	2751.1	3228.1	3595.0	3609.5
25°	2475.2	2466.1	2463.4	2442.5	2448.8	2515.3	2780.2	3303.6	3827.1	3857.1
27.5°	2697.4	2682.8	2672.8	2624.5	2608.1	2637.3	2869.4	3394.7	4085.6	4137.5
30°	2986.8	2960.4	2945.9	2862.1	2803.0	2807.5	3004.1	3515.8	4356.0	4439.8
32.5°	3381.9	3341.0	3301.8	3164.4	3056.0	3020.5	3178.0	3683.3	4649.1	4783.0
35°	3824.4	3791.6	3749.7	3537.6	3371.0	3289.1	3412.9	3917.2	4992.3	5204.4
37.5°	4250.4	4222.2	4242.2	3956.4	3741.5	3622.3	3720.6	4231.3	5415.6	5728.8
40°	4691.0	4669.2	4671.9	4398.8	4148.4	4014.6	4093.8	4625.5	5900.9	6352.4
42.5°	5169.9	5153.5	5098.8	4856.7	4575.4	4450.7	4523.5	5080.6	6421.6	7062.5
45°	5706.0	5696.0	5645.1	5367.4	5045.1	4904.9	5003.3	5583.1	6945.0	7730.7
47.5°	6169.4	6177.6	6171.2	5937.3	5603.2	5397.4	5514.9	6107.5	7432.1	8358.8
50°	6392.4	6435.2	6498.0	6425.2	6217.7	6008.3	6031.0	6613.7	7896.3	8947.8
52.5°	6275.9	6356.9	6528.1	6644.6	6724.7	6681.0	6620.0	7116.2	8333.3	9479.4
55°	5841.7	5955.5	6239.5	6520.8	6929.5	7247.3	7327.4	7673.3	8759.3	9947.3
57.5°	5050.6	5235.4	5490.3	6059.3	6747.5	7521.3	8152.1	8446.2	9210.9	10447.1
60°	3694.2	3941.8	4258.6	5105.2	6110.2	7374.7	8854.0	9633.3	9852.7	11094.4
62.5°	2364.2	2517.1	2808.4	3605.9	4761.1	6623.7	9068.9	11117.1	10940.5	12155.8
65°	1618.6	1716.9	1983.6	2431.5	3077.9	4930.4	8493.5	12229.6	12668.4	13838.2
67.5°	1176.2	1250.8	1478.4	1870.8	2005.5	2917.7	6590.9	12178.6	14348.0	15571.5
70°	857.5	910.3	1101.5	1478.4	1543.0	1623.1	3992.8	10352.4	14311.5	16032.1
72.5°	635.4	671.8	800.2	1147.0	1249.0	1096.1	1976.4	7524.0	12297.9	14500.9
75°	459.7	487.0	581.7	877.6	999.6	834.8	985.9	4397.0	8578.2	10200.4
77.5°	351.4	372.3	434.2	642.7	800.2	626.3	611.8	2022.8	4067.4	4087.5
80°	282.2	295.9	329.5	452.4	613.6	468.8	398.7	816.6	1285.4	1087.9
82.5°	207.6	230.3	278.6	317.7	438.8	323.2	243.1	412.4	488.9	420.6
85°	118.3	133.8	168.4	227.6	280.4	197.5	139.3	183.0	227.6	186.6
87.5°	41.9	54.6	59.2	89.2	122.0	81.9	53.7	52.8	74.6	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941725
 CATALOG NUMBER: GALN-SB5B-927-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2515.3	0°	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3	2515.3
2542.6	2.5°	2533.5	2528.9	2510.7	2486.2	2460.7	2436.1	2427.9	2410.6	2398.8	2392.4
2601.8	5°	2584.5	2569.9	2527.1	2472.5	2415.1	2353.2	2309.5	2269.5	2240.4	2213.0
2682.8	7.5°	2657.3	2631.8	2558.1	2462.5	2360.5	2257.7	2181.2	2122.9	2083.8	2058.3
2777.5	10°	2742.0	2702.8	2589.9	2447.0	2289.5	2142.0	2051.9	2001.8	1977.3	1963.6
2885.8	12.5°	2839.4	2783.8	2622.7	2411.5	2181.2	2012.8	1950.9	1936.3	1937.2	1938.1
3022.3	15°	2959.5	2882.2	2649.1	2334.1	2040.1	1913.5	1902.6	1926.3	1950.9	1962.7
3177.1	17.5°	3095.2	2985.9	2653.7	2206.7	1901.7	1849.8	1884.4	1935.4	1972.7	1989.1
3350.1	20°	3240.8	3091.5	2620.9	2026.4	1787.9	1797.9	1859.8	1925.4	1966.3	1987.3
3547.6	22.5°	3407.4	3204.4	2542.6	1837.1	1695.1	1741.5	1814.3	1878.0	1920.8	1941.8
3779.8	25°	3597.7	3331.0	2419.7	1677.8	1615.0	1677.8	1750.6	1803.4	1838.0	1857.1
4039.2	27.5°	3808.9	3463.0	2255.8	1551.2	1544.9	1612.2	1672.3	1713.3	1731.5	1746.0
4315.0	30°	4021.0	3583.1	2057.4	1455.6	1483.9	1547.6	1590.4	1608.6	1614.0	1616.8
4622.7	32.5°	4250.4	3686.9	1848.9	1376.4	1425.6	1484.8	1510.3	1518.5	1493.0	1475.7
4996.0	35°	4528.1	3798.0	1645.0	1313.6	1368.2	1419.2	1427.4	1420.1	1390.1	1354.6
5463.9	37.5°	4871.3	3936.3	1482.0	1269.0	1314.5	1348.2	1338.2	1336.4	1339.1	1297.2
6026.5	40°	5291.8	4116.6	1362.8	1234.4	1270.8	1278.1	1249.9	1265.4	1279.0	1215.3
6643.7	42.5°	5758.8	4334.2	1287.2	1210.8	1234.4	1217.1	1173.4	1190.7	1188.9	1105.2
7263.6	45°	6235.0	4570.8	1260.8	1193.5	1200.7	1166.2	1117.9	1122.5	1084.2	1008.7
7858.1	47.5°	6708.3	4824.8	1277.2	1178.9	1158.9	1119.7	1082.4	1062.4	1005.9	949.5
8428.0	50°	7172.6	5091.6	1337.3	1149.8	1101.5	1078.8	1051.4	1015.9	955.9	907.6
8966.9	52.5°	7603.2	5360.1	1404.7	1101.5	1029.6	1043.3	1026.0	985.0	925.8	876.7
9476.7	55°	8011.0	5628.7	1431.1	1035.1	962.2	1012.3	1002.3	926.7	855.7	815.7
10010.2	57.5°	8455.3	5951.8	1401.9	950.4	907.6	976.8	938.6	854.8	813.8	783.8
10704.8	60°	9070.7	6458.9	1339.1	845.7	855.7	924.0	858.5	823.9	779.3	745.6
11746.2	62.5°	10093.0	7404.7	1238.1	741.9	794.7	845.7	820.2	785.6	740.1	707.3
13526.8	65°	11604.2	8719.3	1047.8	660.9	726.5	769.2	779.3	744.7	697.3	662.7
15087.2	67.5°	12878.7	9544.1	792.9	593.5	656.4	707.3	735.6	701.9	651.8	618.1
15452.2	70°	12808.6	8945.1	605.4	527.1	594.5	646.3	682.8	656.4	602.6	570.8
14035.7	72.5°	11376.6	7483.0	489.8	459.7	531.6	582.6	626.3	606.3	551.7	520.7
10282.4	75°	8357.9	5311.9	391.4	391.4	453.4	516.2	564.4	551.7	501.6	479.8
4316.9	77.5°	3523.0	2228.5	306.8	325.0	376.9	443.3	503.4	508.0	464.3	491.6
1141.6	80°	936.7	614.5	234.0	255.8	295.9	366.0	437.9	436.1	388.7	363.2
424.2	82.5°	356.9	242.2	166.6	180.2	213.9	280.4	346.8	357.8	310.4	268.6
166.6	85°	137.5	103.8	102.9	108.3	124.7	185.7	262.2	271.3	234.0	198.5
46.4	87.5°	35.5	31.0	38.2	36.4	57.4	99.2	150.2	155.7	142.9	82.8
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>
2515.3
2399.7
2224.0
2063.8
1967.3
1939.9
1961.8
1992.7
1992.7
1947.2
1862.6
1751.5
1623.1
1481.1
1356.4
1300.0
1217.1
1104.2
1011.4
949.5
904.0
877.6
812.0
781.1
743.8
707.3
664.6
619.0
573.5
520.7
473.4
446.1
337.7
268.6
204.8
118.3
0.0

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