

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: P946125

Luminaire Tested: **GALN-SB1D-840-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-840-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9917 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

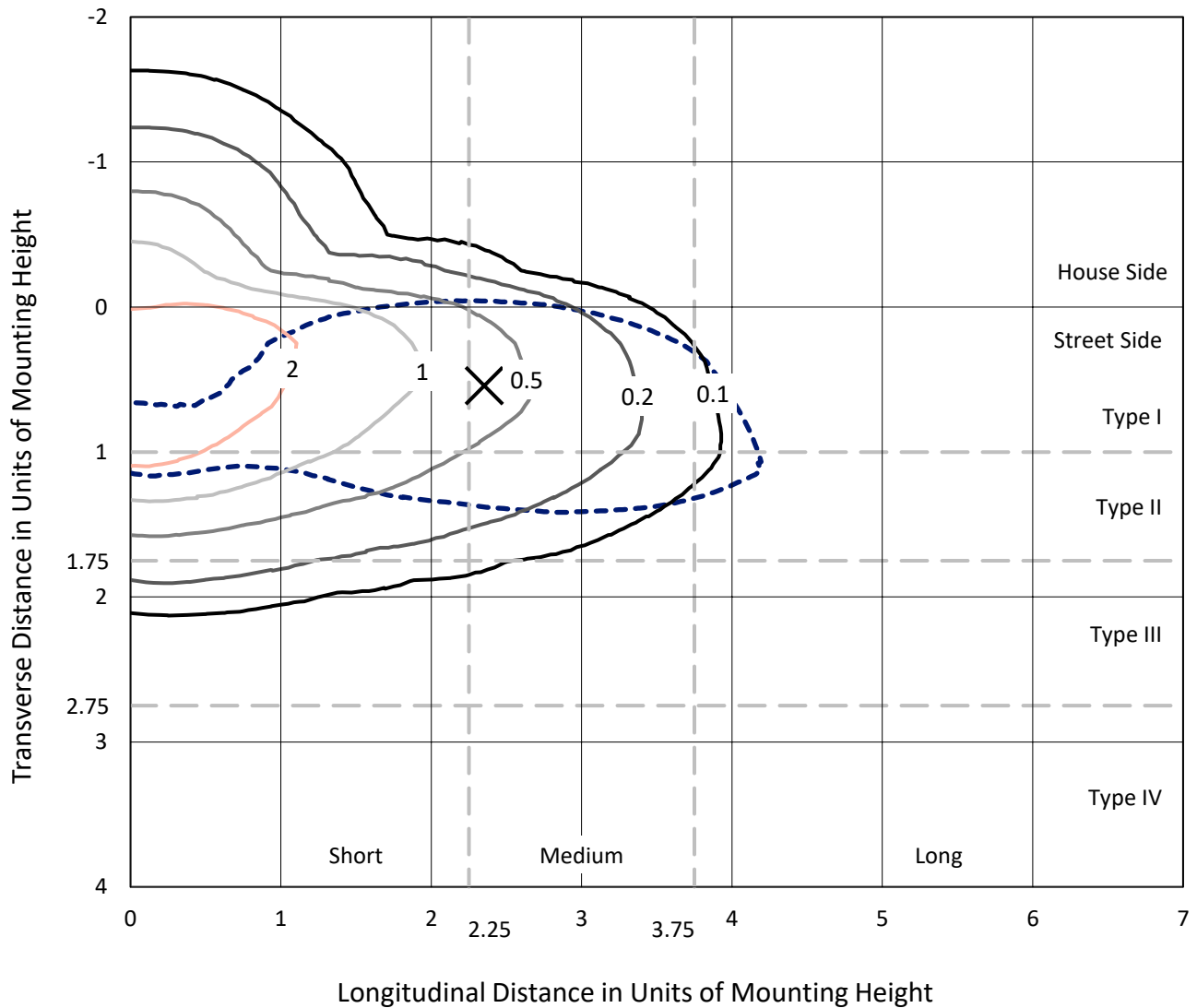
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

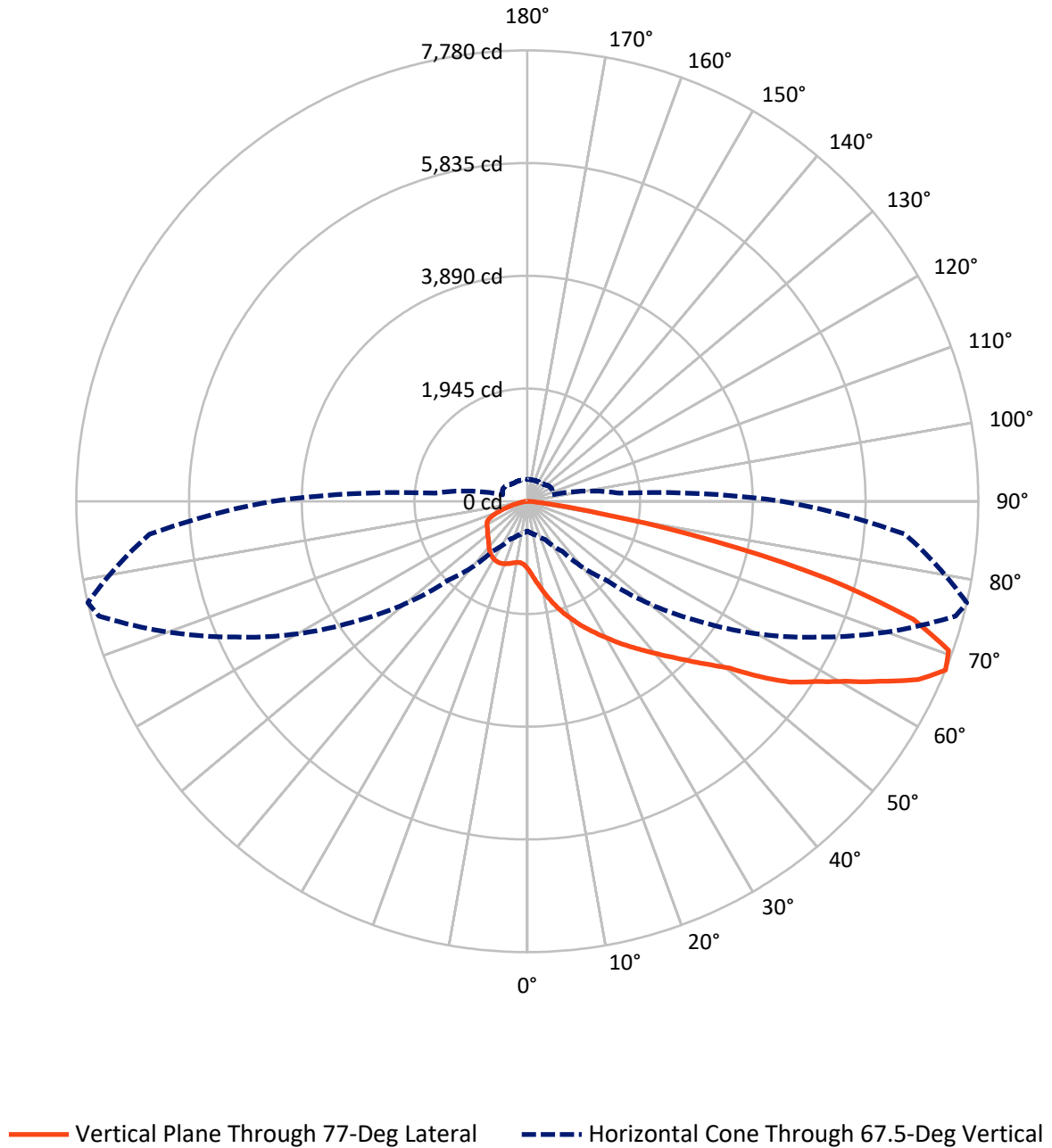
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.9	0.0	1875.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8041.1	0.0	8041.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	9917.0	0.0	9917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.3
10°-20°	448.1	4.5
20°-30°	846.0	8.5
30°-40°	1362.9	13.7
40°-50°	1864.2	18.8
50°-60°	2102.8	21.2
60°-70°	1962.7	19.8
70°-80°	1075.9	10.8
80°-90°	129.8	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°	9917.0	100.0
0°-180°	9917.0	100.0

Coefficient of Utilization



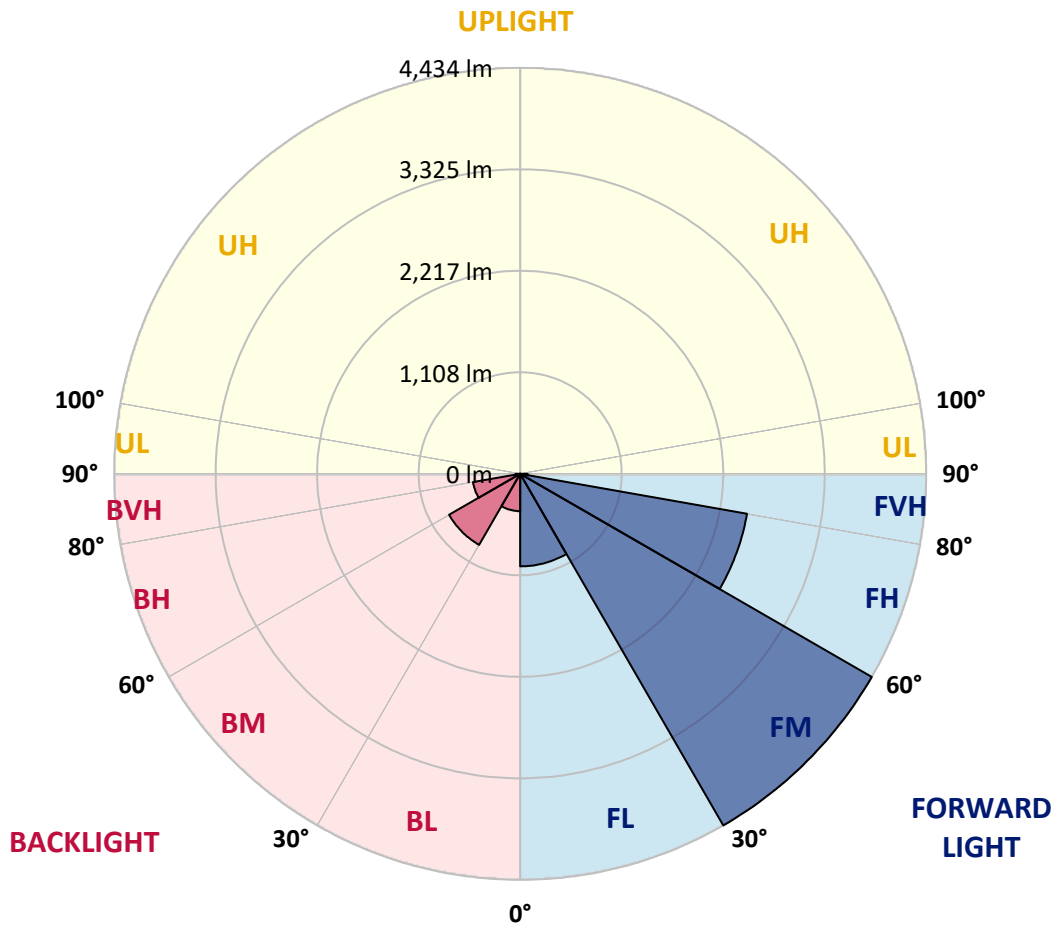
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.9	10.2			
FM (30°-60°)	4433.8	44.7			
FH (60°-80°)	2515.2	25.4			G2/5000
FVH (80°-90°)	81.2	0.8			G1/100
BL (0°-30°)	407.9	4.1	B1/500		
BM (30°-60°)	896.1	9.0	B1/1000		
BH (60°-80°)	523.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	48.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1456.9	1467.1	1454.3	1454.3	1411.3	1388.8	1345.8	1313.1	1254.2	1243.9	1243.9
5°	1722.1	1734.9	1716.9	1709.3	1658.6	1612.0	1539.8	1468.7	1363.7	1353.0	1353.0
7.5°	1927.3	1943.7	1927.9	1919.7	1874.6	1822.4	1737.9	1638.6	1490.7	1469.7	1469.7
10°	2094.7	2097.3	2092.2	2095.2	2059.9	2016.9	1930.4	1814.7	1629.9	1601.3	1601.3
12.5°	2189.4	2201.2	2211.5	2229.9	2223.7	2197.1	2119.3	1981.1	1777.4	1740.5	1740.5
15°	2234.0	2254.5	2277.5	2320.0	2354.3	2360.9	2301.5	2159.7	1927.3	1882.8	1882.8
17.5°	2249.8	2269.3	2305.6	2367.1	2440.8	2490.4	2463.8	2333.3	2075.8	2024.6	2024.6
20°	2330.2	2335.8	2357.9	2416.2	2496.1	2578.5	2598.5	2500.2	2222.7	2164.9	2164.9
22.5°	2502.2	2491.0	2497.1	2523.7	2581.1	2660.9	2706.5	2647.6	2373.7	2307.2	2307.2
25°	2786.3	2753.6	2720.8	2690.1	2719.3	2764.3	2816.0	2795.0	2531.9	2447.4	2447.4
27.5°	3145.2	3105.2	3033.1	2932.2	2896.9	2912.8	2935.8	2931.7	2678.3	2592.8	2592.8
30°	3498.4	3451.8	3365.8	3219.9	3126.7	3084.8	3067.4	3055.6	2837.5	2746.4	2746.4
32.5°	3780.5	3743.6	3659.1	3495.8	3360.7	3289.0	3231.2	3189.2	3003.9	2912.8	2912.8
35°	4027.2	3992.9	3896.1	3718.0	3571.1	3494.8	3419.0	3329.5	3176.9	3084.8	3084.8
37.5°	4252.4	4218.1	4085.6	3900.2	3752.3	3699.6	3632.0	3480.0	3350.5	3263.4	3263.4
40°	4394.8	4387.1	4263.2	4053.3	3899.7	3873.6	3851.1	3654.5	3542.9	3462.0	3462.0
42.5°	4431.1	4448.0	4349.7	4177.2	4030.8	4009.8	4062.5	3852.1	3759.0	3681.7	3681.7
45°	4343.6	4392.2	4327.7	4210.5	4123.9	4112.7	4249.9	4068.2	3998.0	3927.4	3927.4
47.5°	4121.9	4204.3	4177.7	4161.3	4149.0	4197.7	4414.7	4297.5	4268.8	4207.4	4207.4
50°	3674.5	3830.6	3877.2	3980.6	4099.4	4263.7	4564.7	4547.8	4585.2	4523.2	4523.2
52.5°	2901.0	3116.0	3386.3	3645.3	3946.8	4241.7	4729.5	4907.2	5064.8	5031.1	5031.1
55°	2394.7	2491.5	2699.3	3174.4	3650.9	4149.0	4803.8	5197.4	5540.9	5510.7	5510.7
57.5°	2005.7	2092.2	2220.2	2616.9	3203.5	3938.6	4849.8	5374.5	5867.0	5863.9	5863.9
60°	1588.5	1680.1	1811.1	2092.2	2680.9	3575.2	4839.6	5576.2	6283.2	6308.8	6308.8
62.5°	1117.5	1218.3	1363.7	1625.8	2147.0	3104.2	4630.7	5722.1	6773.1	6842.7	6842.7
65°	734.6	801.1	910.7	1137.0	1599.7	2498.6	4232.0	5741.1	7297.3	7415.0	7415.0
67.5°	515.0	540.6	605.1	727.9	1054.5	1916.1	3596.7	5545.0	7646.9	7779.5	7779.5
70°	401.8	414.6	447.4	496.6	662.4	1288.5	2756.1	5035.2	7572.2	7710.4	7710.4
72.5°	347.1	359.4	371.6	377.8	444.3	795.5	1866.9	4210.0	6868.3	6962.0	6962.0
75°	314.8	317.9	328.1	326.1	338.9	516.0	1077.6	3067.4	5419.1	5386.8	5386.8
77.5°	264.7	268.8	285.6	283.1	301.0	352.7	559.5	1979.6	3513.2	3294.1	3294.1
80°	224.2	226.3	244.7	241.6	261.6	255.4	285.6	1009.0	1490.2	1262.4	1262.4
82.5°	77.8	96.2	186.8	192.5	199.6	154.6	164.8	411.6	455.1	348.6	348.6
85°	37.9	40.4	95.2	135.1	134.6	77.8	80.4	146.9	143.3	112.6	112.6
87.5°	6.1	7.7	11.3	52.7	42.0	20.5	27.6	28.7	29.7	25.6	25.6
90°	0.0	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°
1163.6	0°	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6	1163.6
1205.0	2.5°	1176.4	1150.8	1097.0	1047.4	1008.5	971.1	950.1	932.2	922.0	919.9
1261.3	5°	1208.1	1155.4	1057.6	975.2	921.4	881.5	860.5	847.2	840.6	836.5
1337.1	7.5°	1253.7	1176.4	1037.1	943.5	887.1	858.5	847.7	845.7	845.2	845.7
1428.7	10°	1316.6	1210.7	1035.1	935.8	888.7	872.8	872.3	872.8	874.9	875.4
1528.6	12.5°	1384.7	1246.0	1043.3	942.4	908.1	899.4	897.9	897.4	898.9	899.9
1629.4	15°	1458.9	1292.6	1057.1	956.8	929.6	920.4	918.9	915.8	915.3	914.8
1735.4	17.5°	1535.2	1338.6	1072.5	972.1	943.5	930.7	925.0	917.9	912.2	910.7
1844.9	20°	1612.5	1384.2	1083.2	979.8	944.5	926.6	915.3	903.0	893.3	887.7
1955.5	22.5°	1694.9	1431.8	1089.9	977.7	935.3	910.7	890.2	875.9	861.0	851.3
2067.1	25°	1775.3	1473.3	1089.3	967.0	917.3	886.1	860.0	841.6	821.1	810.9
2182.3	27.5°	1852.6	1510.6	1076.5	948.1	891.7	856.9	825.7	803.7	783.7	774.0
2298.5	30°	1932.5	1541.9	1056.6	920.4	861.5	823.2	788.9	769.9	752.0	742.8
2421.3	32.5°	2011.8	1570.5	1028.4	886.1	826.7	789.9	756.1	738.7	727.9	727.9
2553.4	35°	2095.8	1590.5	991.1	846.2	789.9	754.6	727.9	717.7	716.7	710.5
2693.2	37.5°	2184.3	1603.3	945.5	805.2	753.5	720.3	712.1	699.8	689.5	676.2
2846.7	40°	2277.5	1616.1	890.7	762.7	715.1	696.7	693.1	676.7	647.6	614.8
3020.8	42.5°	2390.6	1624.8	833.9	720.3	674.7	668.6	673.7	645.5	598.9	574.4
3230.7	45°	2521.7	1639.1	781.7	678.3	633.2	633.2	654.7	617.9	579.5	564.1
3470.2	47.5°	2691.6	1672.4	733.1	632.2	594.8	605.1	612.8	584.6	563.1	544.2
3762.0	50°	2937.3	1752.3	682.9	585.6	565.7	586.1	575.4	559.0	533.9	518.6
4225.8	52.5°	3242.4	1799.4	638.4	543.6	540.6	561.1	545.7	530.3	511.4	490.9
4577.5	55°	3450.3	1808.1	601.0	512.9	523.7	521.6	516.0	502.2	491.9	464.8
4924.6	57.5°	3682.7	1825.5	570.3	494.5	512.9	490.4	488.4	476.6	463.3	444.9
5347.9	60°	3960.7	1852.6	543.6	487.3	503.7	469.9	459.7	455.1	441.8	432.6
5857.3	62.5°	4263.7	1877.2	516.5	488.4	493.0	450.0	434.6	433.1	424.9	421.8
6335.4	65°	4470.5	1810.1	482.7	487.3	476.1	429.5	410.0	409.5	402.9	401.8
6542.7	67.5°	4398.3	1597.7	437.2	473.0	458.7	409.0	387.5	385.5	376.8	377.3
6326.2	70°	4036.9	1294.6	374.2	437.7	437.2	390.6	364.0	357.3	345.5	347.6
5500.5	72.5°	3359.2	959.3	289.7	378.8	402.9	373.7	336.8	326.1	311.2	313.3
4060.5	75°	2425.9	652.2	210.9	288.2	350.7	353.7	310.2	291.8	273.9	276.9
2260.1	77.5°	1241.4	369.6	155.1	198.6	275.4	321.5	286.2	261.6	257.5	286.2
651.7	80°	404.9	185.3	107.5	139.2	180.7	263.1	250.8	222.7	221.7	228.3
136.7	82.5°	120.8	78.3	69.1	91.6	99.8	201.7	216.5	168.4	144.9	152.5
45.6	85°	41.5	37.9	39.4	45.6	47.6	118.3	151.5	111.6	105.5	116.2
10.2	87.5°	9.7	13.3	11.3	10.2	10.2	28.7	58.9	46.6	64.5	43.0
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>
1163.6
919.9
835.9
847.2
875.9
900.5
914.3
912.2
889.7
851.8
810.9
773.5
742.3
728.4
709.0
674.2
610.2
574.9
566.7
543.6
517.0
486.8
465.3
438.7
435.1
421.8
401.3
377.3
349.6
312.8
278.0
282.1
196.1
157.7
114.7
41.5
0.0

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