

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: P941074

Luminaire Tested: **GALN-SB4B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11942 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

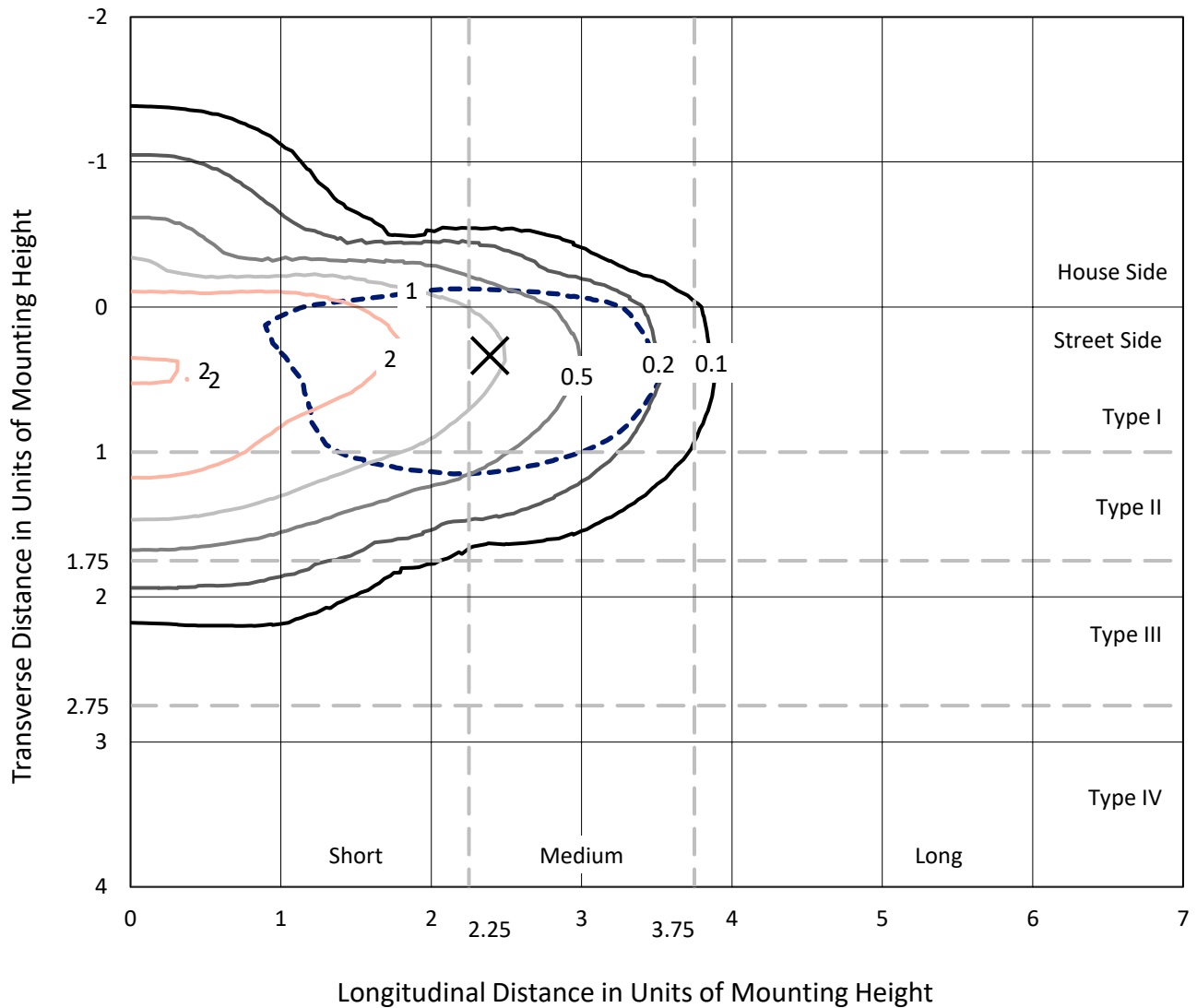
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

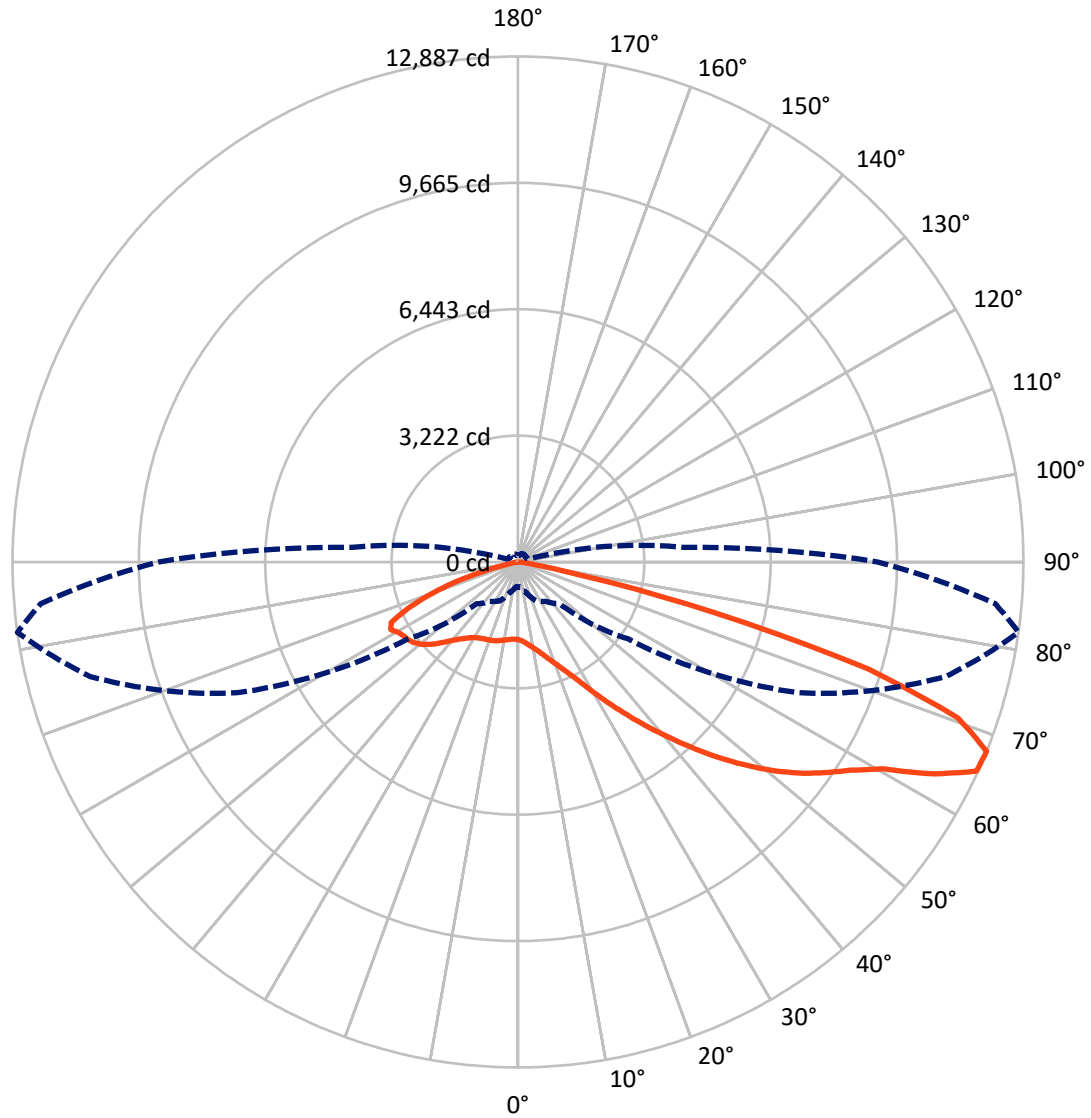
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.2	0.0	2163.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9778.8	0.0	9778.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	11942.0	0.0	11942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.5
10°-20°	458.0	3.8
20°-30°	733.6	6.1
30°-40°	1297.3	10.9
40°-50°	2272.9	19.0
50°-60°	3031.4	25.4
60°-70°	2822.1	23.6
70°-80°	1083.1	9.1
80°-90°	67.3	0.6
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°	11942.0	100.0
0°-180°	11942.0	100.0

Coefficient of Utilization



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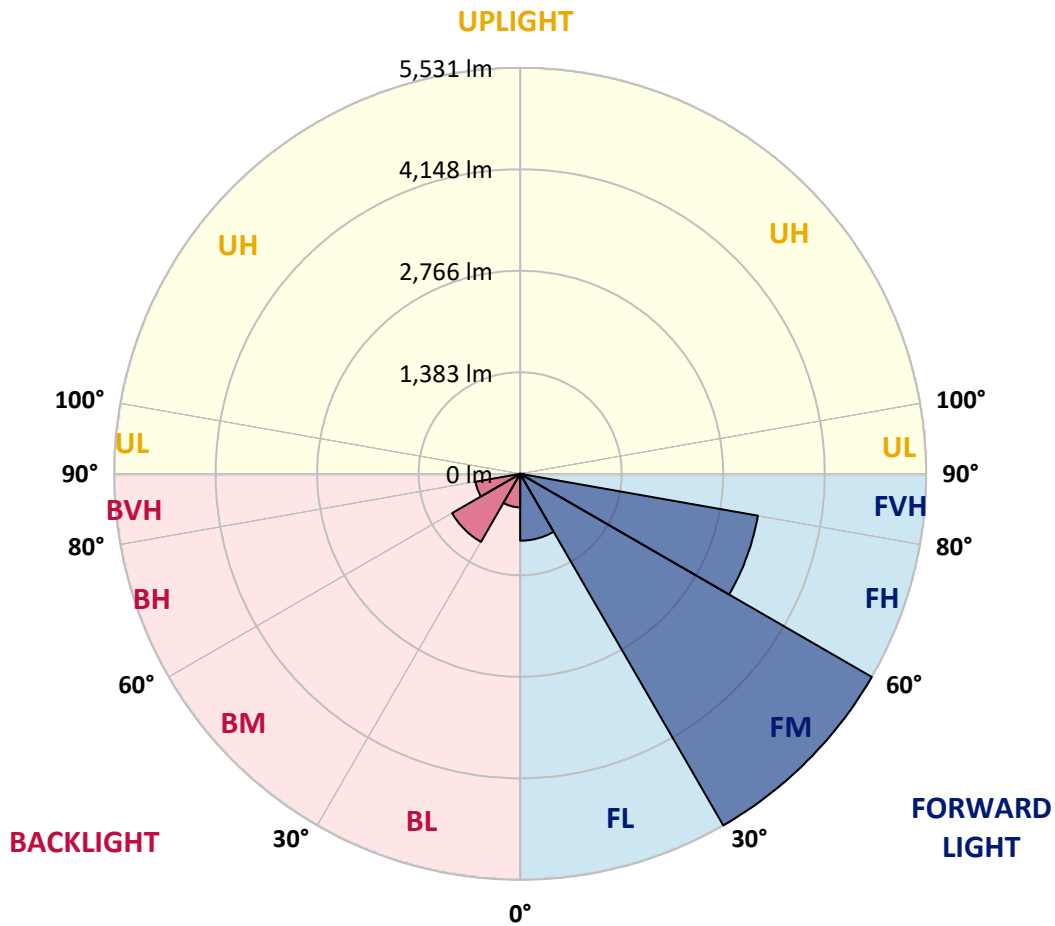
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.0	7.6			
FM (30°-60°)	5531.0	46.3			
FH (60°-80°)	3287.8	27.5			G2/5000
FVH (80°-90°)	48.9	0.4			G1/100
BL (0°-30°)	456.9	3.8	B1/500		
BM (30°-60°)	1070.6	9.0	B2/2500		
BH (60°-80°)	617.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	18.4	0.2			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°	82°
0°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2.5°	2091.0	2103.1	2096.2	2092.7	2086.7	2078.1	2071.2	2049.7	2027.4	2012.8
5°	2133.1	2145.2	2144.3	2147.8	2152.1	2154.6	2152.9	2128.8	2097.0	2072.1
7.5°	2097.0	2110.8	2122.0	2139.2	2169.3	2201.1	2216.5	2211.4	2178.7	2144.3
10°	1994.7	2009.3	2036.0	2076.4	2140.0	2208.8	2266.4	2293.1	2272.4	2234.6
12.5°	1807.3	1821.9	1874.4	1962.0	2068.7	2188.2	2298.2	2369.6	2374.8	2336.9
15°	1596.6	1611.3	1667.1	1777.2	1939.7	2131.4	2315.4	2450.4	2496.0	2463.3
17.5°	1465.9	1478.8	1521.0	1609.5	1778.9	2017.9	2309.4	2536.4	2640.4	2614.6
20°	1426.4	1437.6	1457.4	1519.3	1660.3	1900.1	2269.9	2617.2	2796.0	2781.4
22.5°	1468.5	1478.8	1484.9	1512.4	1600.9	1822.8	2220.0	2699.8	2976.6	2978.3
25°	1565.7	1576.0	1569.1	1586.3	1625.0	1798.7	2201.1	2796.9	3203.6	3222.5
27.5°	1725.6	1726.5	1710.1	1709.3	1715.3	1834.8	2220.8	2900.9	3489.9	3525.2
30°	2046.3	2033.4	1970.6	1902.7	1871.8	1943.1	2275.9	3023.9	3827.8	3890.6
32.5°	2540.7	2521.8	2406.6	2244.1	2080.7	2117.7	2374.8	3164.0	4195.8	4309.3
35°	3077.2	3072.0	2951.7	2710.1	2424.6	2366.2	2535.5	3348.0	4597.3	4777.9
37.5°	3575.9	3573.3	3504.5	3219.9	2872.6	2712.6	2793.5	3588.8	5027.2	5288.6
40°	4031.6	4039.3	3970.5	3716.0	3366.1	3157.2	3144.3	3886.3	5505.3	5844.9
42.5°	4425.4	4434.0	4364.3	4176.0	3853.6	3649.0	3575.0	4250.8	5972.1	6442.4
45°	4692.8	4746.1	4735.7	4585.3	4354.0	4141.6	4092.6	4708.2	6504.3	7076.1
47.5°	4768.4	4817.4	4894.8	4915.4	4774.4	4565.5	4624.0	5259.4	7042.6	7710.6
50°	4581.8	4627.4	4788.2	5002.3	5100.3	5035.8	5140.7	5850.0	7593.7	8343.4
52.5°	4213.8	4260.3	4463.2	4801.9	5201.8	5404.7	5659.2	6432.1	8127.6	8942.7
55°	3681.6	3730.6	3991.2	4374.6	5008.3	5556.8	6091.6	7013.3	8616.9	9481.8
57.5°	2957.7	2993.8	3264.6	3801.1	4521.7	5405.5	6410.6	7647.9	9077.7	10011.4
60°	1927.7	1959.5	2274.2	2872.6	3715.2	4900.0	6474.2	8355.5	9689.9	10700.1
62.5°	1282.0	1303.4	1490.0	1929.4	2616.4	3929.3	6102.0	8920.4	10587.5	11898.7
65°	879.6	901.1	1087.6	1393.7	1690.4	2599.2	5031.5	8845.6	11400.9	12850.5
67.5°	627.6	645.7	803.9	1092.8	1223.5	1509.8	3410.8	7889.5	11283.9	12886.6
70°	449.7	460.0	590.7	851.2	972.4	907.1	1896.7	6034.0	9879.9	11899.5
72.5°	314.7	318.1	410.1	648.3	783.3	662.0	902.8	4023.0	7472.5	9339.9
75°	213.2	217.5	276.0	475.5	628.5	505.6	478.0	2157.2	4386.7	5169.9
77.5°	130.7	132.4	178.0	325.0	470.3	385.2	307.8	914.0	1697.2	1666.3
80°	73.9	73.9	113.5	202.1	320.7	248.5	215.8	388.6	537.4	472.0
82.5°	41.3	42.1	82.5	125.5	212.4	147.0	118.7	179.7	232.1	205.5
85°	17.2	18.9	50.7	59.3	101.5	73.1	48.1	75.7	86.0	76.5
87.5°	1.7	2.6	15.5	11.2	12.0	14.6	6.9	14.6	12.0	12.0
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°
1978.4	0°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2007.6	2.5°	1991.3	1978.4	1945.7	1907.9	1858.0	1833.9	1801.3	1778.9	1760.0	1761.7
2057.5	5°	2030.0	1997.3	1924.2	1833.1	1719.6	1638.8	1552.8	1493.5	1445.3	1435.0
2126.3	7.5°	2083.3	2031.7	1903.6	1739.4	1547.6	1402.3	1272.5	1189.1	1129.8	1110.9
2209.7	10°	2152.1	2077.3	1876.9	1621.6	1345.6	1160.7	1021.4	956.1	915.7	901.9
2307.7	12.5°	2232.0	2129.7	1841.7	1478.0	1137.5	959.5	871.0	838.3	825.4	821.1
2428.1	15°	2332.6	2195.1	1788.4	1307.7	961.2	836.6	798.7	794.4	796.2	794.4
2572.5	17.5°	2452.1	2266.4	1701.5	1132.3	842.6	773.8	760.1	763.5	767.8	766.9
2734.1	20°	2582.8	2336.9	1590.6	976.7	761.8	729.1	721.4	724.8	728.2	726.5
2920.7	22.5°	2731.6	2412.6	1467.7	855.5	707.6	687.8	679.2	680.1	680.1	676.7
3157.2	25°	2909.5	2496.0	1338.7	769.5	666.3	650.9	640.5	637.1	631.9	621.6
3444.3	27.5°	3121.9	2584.5	1214.9	709.3	633.7	619.1	607.0	598.4	585.5	568.3
3789.1	30°	3360.9	2692.0	1110.0	671.5	607.9	593.3	579.5	566.6	547.7	526.2
4185.5	32.5°	3642.1	2807.2	1033.5	646.6	584.7	569.2	552.8	537.4	516.7	495.2
4630.8	35°	3977.4	2946.5	988.8	629.4	566.6	546.0	527.9	510.7	495.2	476.3
5114.9	37.5°	4341.1	3094.4	975.0	620.8	554.6	522.8	502.1	490.1	488.4	477.2
5638.5	40°	4739.2	3269.8	985.3	615.6	541.7	500.4	478.0	475.5	479.8	460.0
6198.3	42.5°	5160.5	3477.9	1002.5	609.6	523.6	478.0	456.6	456.6	453.1	425.6
6789.8	45°	5616.2	3717.7	1019.7	595.0	502.1	455.7	439.4	433.3	418.7	392.1
7384.8	47.5°	6075.3	3961.9	1032.6	568.3	476.3	436.8	422.2	408.4	386.9	362.8
7968.6	50°	6511.2	4181.2	1018.9	528.8	447.1	418.7	403.2	384.3	361.1	344.8
8521.4	52.5°	6900.7	4371.2	960.4	482.3	416.1	399.8	386.0	366.3	347.4	330.2
9020.1	55°	7239.5	4525.1	857.2	438.5	388.6	383.5	369.7	344.8	319.0	304.4
9514.5	57.5°	7564.5	4642.0	728.2	402.4	363.7	365.4	344.8	322.4	298.3	282.9
10180.8	60°	7996.9	4798.5	597.6	368.9	337.0	342.2	319.8	303.5	273.4	253.6
11323.5	62.5°	8688.2	5041.8	474.6	327.6	306.1	307.8	298.3	278.6	242.5	219.2
12170.4	65°	9236.8	4952.4	374.0	282.9	270.8	273.4	273.4	251.9	213.2	186.6
12215.9	67.5°	9174.9	4240.5	298.3	239.0	237.3	239.0	245.0	227.0	189.2	167.7
11285.7	70°	8451.8	3373.0	239.0	198.6	206.4	202.1	219.2	207.2	170.2	148.7
8749.3	72.5°	6896.4	2429.8	182.3	164.2	158.2	165.1	197.8	186.6	141.9	117.8
4634.3	75°	4029.9	1296.6	135.8	129.8	114.4	137.6	175.4	159.1	108.3	86.8
1420.4	77.5°	1312.0	452.3	99.7	95.4	85.1	110.9	149.6	134.1	88.6	68.8
416.1	80°	351.7	136.7	67.9	62.8	55.0	82.5	118.7	106.6	63.6	44.7
178.8	82.5°	141.0	57.6	39.6	35.3	30.1	56.7	93.7	86.0	47.3	28.4
55.9	85°	45.6	18.9	14.6	11.2	13.8	35.3	55.9	58.5	33.5	14.6
8.6	87.5°	6.0	2.6	2.6	3.4	2.6	6.0	17.2	16.3	9.5	1.7
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>
1978.4
1744.5
1411.8
1091.9
891.6
818.5
793.6
765.2
725.7
674.9
619.9
566.6
524.5
496.1
474.6
476.3
460.8
425.6
391.2
362.0
342.2
328.4
302.6
281.2
251.1
217.5
184.0
164.2
146.2
115.2
84.3
66.2
43.8
28.4
11.2
0.0
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