

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: P949092

Luminaire Tested: **GALN-SB3D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22081 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

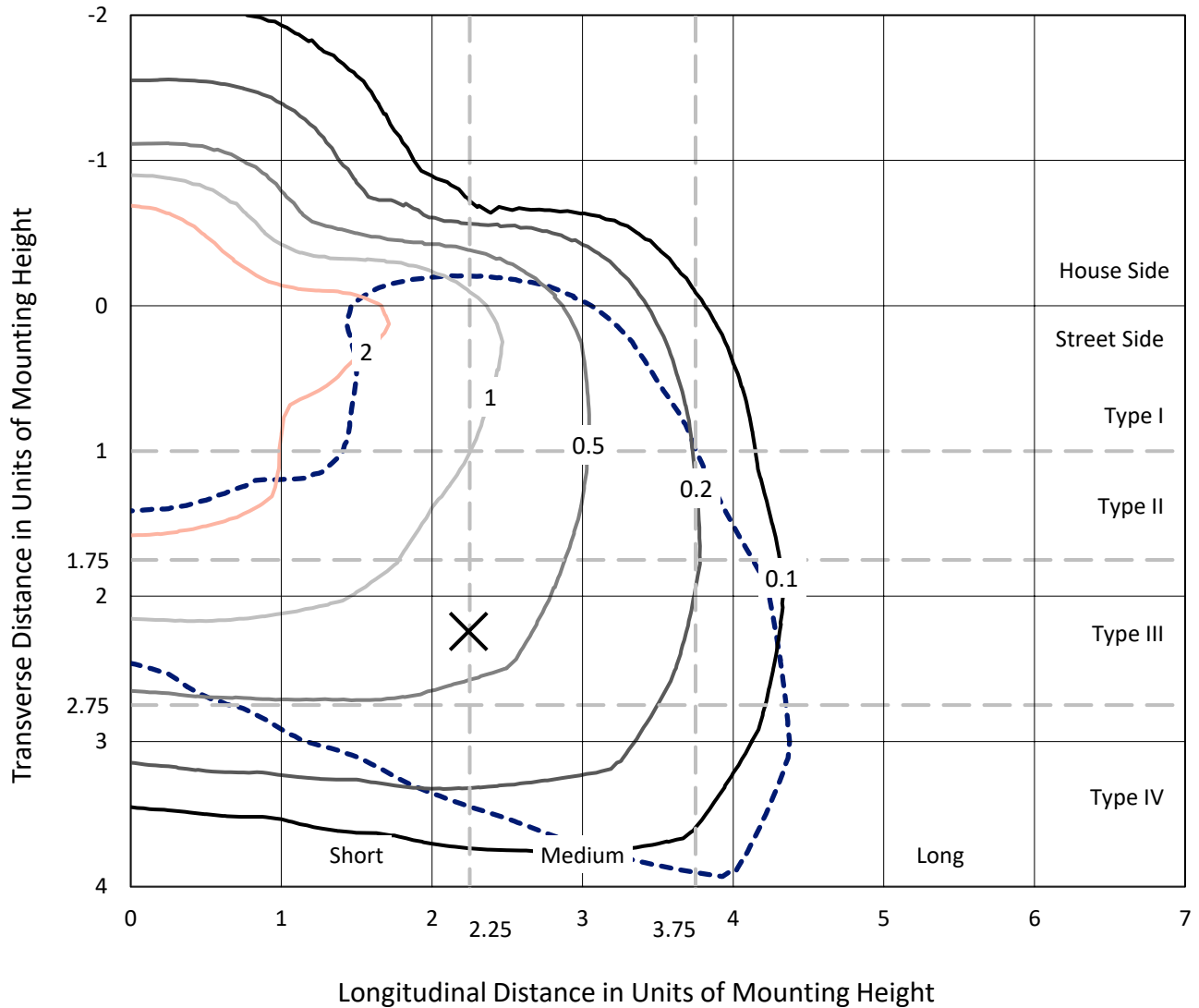
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

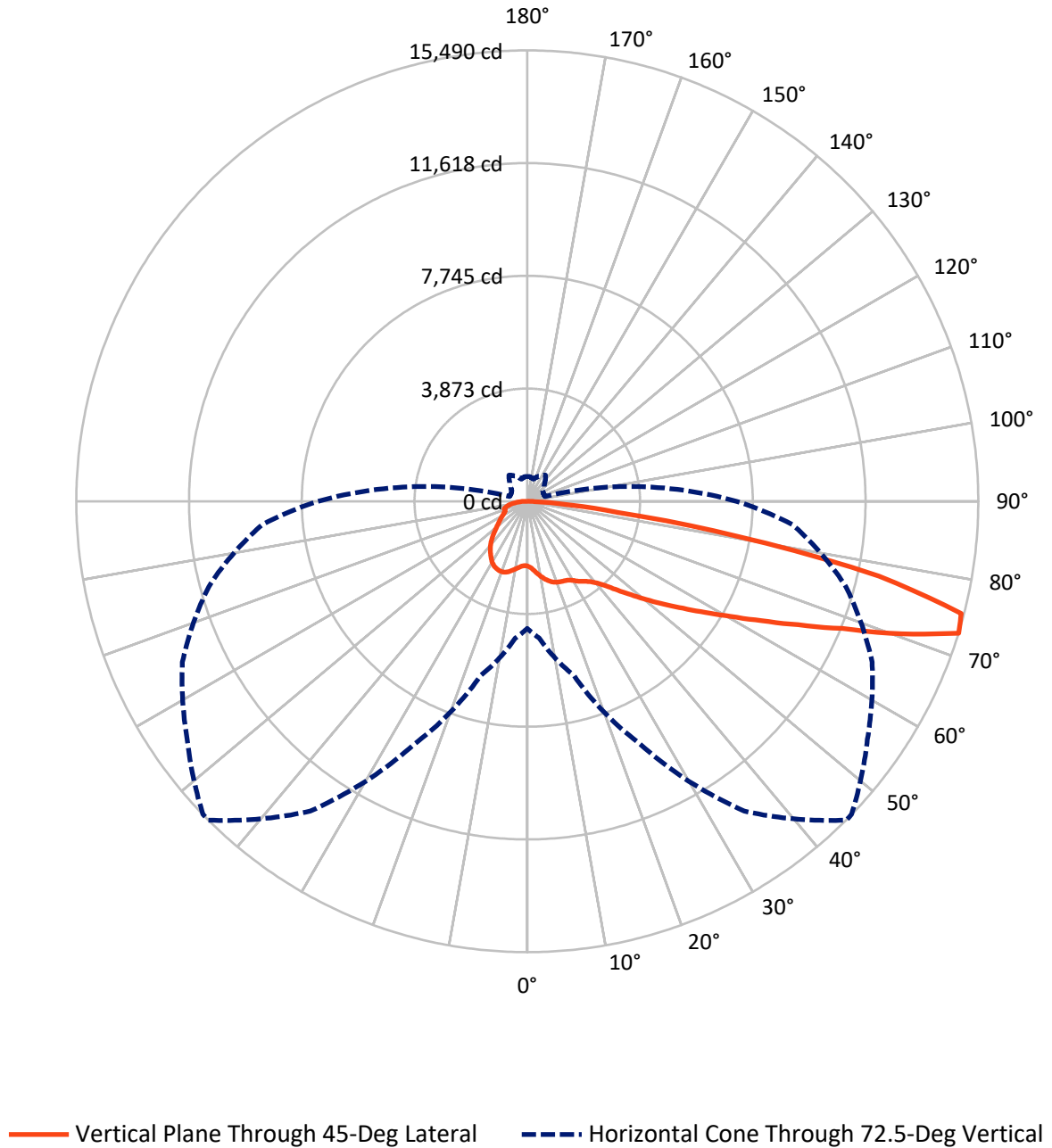
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4991.8	0.0	4991.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17089.2	0.0	17089.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	22081.0	0.0	22081.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.7	1.0
10°-20°	755.9	3.4
20°-30°	1315.0	6.0
30°-40°	1885.1	8.5
40°-50°	2654.3	12.0
50°-60°	4065.6	18.4
60°-70°	5889.6	26.7
70°-80°	4703.2	21.3
80°-90°	585.8	2.7
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°	22081.0	100.0
0°-180°	22081.0	100.0



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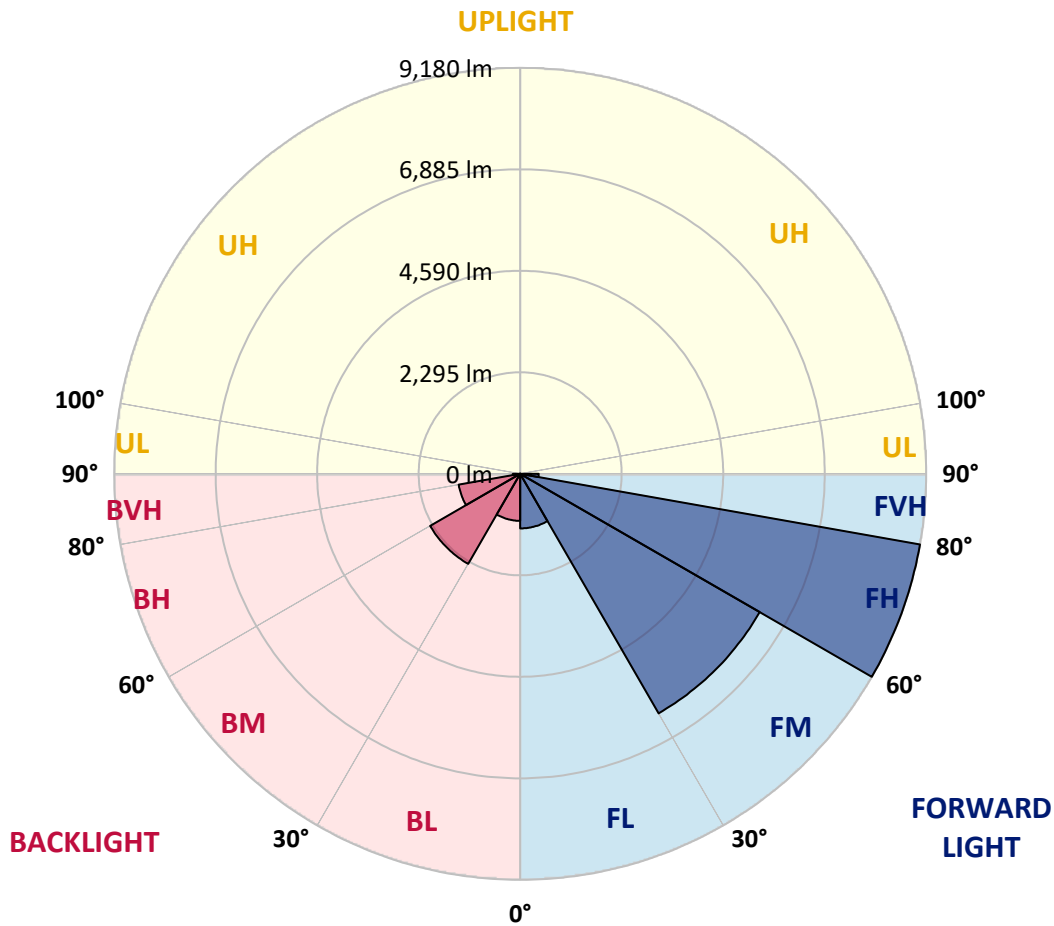
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.8	5.6			
FM (30°-60°)	6254.5	28.3			
FH (60°-80°)	9179.7	41.6			G4/12000
FVH (80°-90°)	420.2	1.9			G3/500
BL (0°-30°)	1062.8	4.8	B3/2500		
BM (30°-60°)	2350.4	10.6	B2/2500		
BH (60°-80°)	1413.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	165.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5
2.5°	2314.8	2329.9	2315.9	2303.2	2297.3	2282.2	2281.1	2271.7	2265.9	2249.6
5°	2476.5	2496.2	2473.0	2447.4	2424.1	2386.9	2382.2	2355.5	2325.3	2290.4
7.5°	2659.1	2676.5	2649.8	2611.4	2570.7	2509.0	2507.9	2459.0	2411.3	2352.0
10°	2818.5	2841.7	2805.7	2753.3	2702.1	2632.3	2624.2	2568.4	2507.9	2431.1
12.5°	2959.2	2975.5	2940.6	2876.6	2817.3	2747.5	2737.0	2675.4	2607.9	2520.7
15°	3070.9	3091.8	3045.3	2976.6	2913.8	2845.2	2835.9	2780.1	2712.6	2620.7
17.5°	3144.2	3161.6	3113.9	3037.1	2976.6	2919.7	2912.7	2866.1	2806.8	2713.8
20°	3172.1	3190.7	3140.7	3062.7	3006.9	2962.7	2959.2	2925.5	2884.8	2799.8
22.5°	3200.0	3217.4	3152.3	3070.9	3022.0	2994.1	2992.9	2970.8	2954.5	2884.8
25°	3312.8	3317.5	3230.2	3112.7	3043.0	3018.5	3017.4	3016.2	3023.2	2968.5
27.5°	3410.5	3409.4	3334.9	3224.4	3116.2	3065.1	3063.9	3075.5	3097.6	3052.3
30°	3553.6	3540.8	3452.4	3337.2	3238.4	3159.3	3152.3	3141.8	3159.3	3123.2
32.5°	3857.2	3816.5	3673.4	3468.7	3339.6	3279.1	3269.8	3204.6	3211.6	3189.5
35°	4292.2	4238.7	4048.0	3717.6	3465.2	3379.1	3374.5	3291.9	3277.9	3258.1
37.5°	4809.9	4743.6	4521.4	4078.2	3681.6	3495.4	3488.5	3414.0	3357.0	3336.1
40°	5329.8	5246.1	5062.3	4517.9	4000.3	3689.7	3667.6	3554.8	3489.6	3454.7
42.5°	5834.7	5764.9	5607.8	5011.1	4393.4	3973.5	3924.7	3731.6	3682.7	3650.1
45°	6281.3	6218.5	6103.4	5538.0	4854.1	4359.7	4312.0	3996.8	3981.7	3981.7
47.5°	6644.2	6630.3	6508.1	6075.4	5397.3	4799.4	4716.8	4365.5	4406.2	4469.0
50°	7046.7	7008.3	6878.0	6604.7	6035.9	5303.1	5235.6	4818.0	4970.4	5142.5
52.5°	7416.6	7437.6	7292.2	7156.1	6757.1	5864.9	5746.2	5351.9	5681.1	5966.1
55°	7797.0	7798.1	7757.4	7738.8	7513.2	6486.0	6355.8	5994.0	6517.5	6871.1
57.5°	8154.1	8156.4	8216.9	8380.9	8390.2	7202.6	7054.9	6782.7	7446.9	7807.5
60°	8472.8	8489.1	8654.3	9038.1	9161.4	8023.8	7884.2	7714.4	8407.7	8770.6
62.5°	8579.8	8639.1	9006.7	9552.3	9923.3	9031.1	8893.9	8792.7	9417.3	9754.7
65°	8398.4	8534.5	9245.2	9976.8	10707.3	10228.1	10092.0	9981.5	10466.5	10784.1
67.5°	7952.9	8128.5	9231.2	10422.3	11658.8	11668.1	11541.3	11282.0	11591.4	11713.5
70°	6779.2	7042.1	8418.1	10588.7	12751.1	13637.4	13515.3	12847.6	12713.9	12123.0
72.5°	4367.8	4721.5	6198.7	9219.6	12994.2	15490.4	15483.5	14260.9	13068.6	11327.3
75°	1593.6	1810.0	2880.1	5787.0	10907.4	15396.2	15441.6	14019.0	11929.9	8749.6
77.5°	580.4	635.1	939.9	2224.1	6708.2	12353.3	12447.5	11207.5	8491.4	4391.1
80°	304.8	335.0	481.6	863.1	2874.3	7336.4	7484.1	6660.5	3991.0	1322.6
82.5°	168.7	182.6	269.9	468.8	1294.7	3137.2	3225.6	2631.2	1404.0	560.7
85°	90.7	96.5	126.8	255.9	632.8	1087.6	1112.0	786.3	559.5	329.2
87.5°	26.8	32.6	41.9	81.4	247.8	244.3	250.1	155.9	221.0	166.3
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°
2227.5	0°	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5	2227.5
2245.0	2.5°	2238.0	2234.5	2221.7	2215.9	2208.9	2207.8	2213.6	2214.7	2215.9	2217.1
2270.6	5°	2258.9	2247.3	2235.7	2228.7	2231.0	2232.2	2243.8	2252.0	2257.8	2262.4
2318.3	7.5°	2299.7	2290.4	2270.6	2269.4	2272.9	2283.4	2298.5	2317.1	2327.6	2335.7
2379.9	10°	2360.1	2342.7	2319.4	2322.9	2329.9	2345.0	2376.4	2391.6	2409.0	2424.1
2455.5	12.5°	2421.8	2406.7	2379.9	2382.2	2393.9	2420.6	2450.9	2469.5	2481.1	2492.8
2537.0	15°	2502.1	2475.3	2446.2	2446.2	2467.2	2496.2	2510.2	2525.3	2532.3	2545.1
2624.2	17.5°	2584.6	2549.8	2511.4	2509.0	2534.6	2548.6	2556.7	2559.1	2561.4	2575.3
2709.1	20°	2667.2	2628.8	2574.2	2569.5	2575.3	2573.0	2571.9	2569.5	2573.0	2590.5
2796.4	22.5°	2748.7	2704.5	2628.8	2607.9	2591.6	2569.5	2568.4	2567.2	2569.5	2587.0
2890.6	25°	2844.0	2790.5	2689.3	2626.5	2571.9	2541.6	2545.1	2546.3	2548.6	2562.5
2988.3	27.5°	2947.6	2888.2	2745.2	2620.7	2521.8	2500.9	2495.1	2498.6	2506.7	2528.8
3086.0	30°	3051.1	2981.3	2796.4	2597.4	2459.0	2429.9	2411.3	2419.5	2445.1	2467.2
3170.9	32.5°	3145.3	3075.5	2837.1	2546.3	2378.8	2333.4	2309.0	2319.4	2345.0	2353.2
3265.1	35°	3255.8	3176.7	2854.5	2464.8	2291.5	2221.7	2189.2	2174.0	2186.8	2178.7
3375.6	37.5°	3379.1	3296.5	2852.2	2357.8	2189.2	2108.9	2063.5	2006.5	1979.8	1951.9
3538.5	40°	3561.7	3443.1	2824.3	2228.7	2062.4	1989.1	1907.7	1811.1	1750.6	1696.0
3801.4	42.5°	3810.7	3646.7	2773.1	2086.8	1919.3	1850.7	1740.2	1627.3	1531.9	1441.2
4200.3	45°	4181.7	3913.0	2709.1	1935.6	1764.6	1697.1	1577.3	1450.5	1342.3	1226.0
4766.8	47.5°	4716.8	4271.3	2648.6	1763.4	1601.7	1540.1	1431.9	1314.4	1186.5	1073.6
5585.7	50°	5452.0	4785.4	2592.8	1595.9	1441.2	1394.7	1308.6	1188.8	1059.7	969.0
6545.4	52.5°	6387.2	5484.5	2569.5	1434.2	1291.2	1273.7	1205.1	1093.4	971.3	894.5
7664.4	55°	7460.8	6320.9	2569.5	1279.5	1159.7	1165.5	1117.8	1014.3	908.5	839.8
8818.3	57.5°	8556.6	7167.7	2523.0	1136.5	1048.1	1072.5	1042.2	951.5	856.1	785.2
10031.5	60°	9566.2	7877.2	2334.6	1006.2	949.2	987.6	967.8	889.9	773.5	714.2
11045.8	62.5°	10342.1	8277.4	1971.6	902.6	867.8	912.0	901.5	808.4	758.4	734.0
11878.7	65°	10730.6	8212.2	1507.5	810.8	799.1	867.8	845.7	842.2	802.6	774.7
12149.7	67.5°	10492.1	7651.6	1093.4	743.3	759.6	827.0	912.0	925.9	852.6	798.0
11386.6	70°	9446.4	6637.3	814.2	679.3	709.6	828.2	1039.9	969.0	836.3	772.4
9132.3	72.5°	7186.3	4949.4	631.6	611.8	644.4	834.0	1096.9	949.2	789.8	853.8
5689.2	75°	4109.6	2717.3	507.2	529.3	563.0	779.3	1067.8	898.0	753.8	784.0
2254.3	77.5°	1566.8	1044.6	418.8	447.8	452.5	680.5	1021.3	894.5	717.7	700.3
675.8	80°	543.2	408.3	346.6	355.9	350.1	604.9	979.4	778.2	587.4	525.8
279.2	82.5°	222.2	203.6	274.5	262.9	248.9	469.9	791.0	636.3	480.4	424.6
134.9	85°	96.5	129.1	181.5	159.4	144.2	325.7	633.9	538.6	406.0	350.1
44.2	87.5°	19.8	48.9	76.8	72.1	74.4	217.5	450.2	382.7	287.3	215.2
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>
2227.5
2221.7
2264.8
2338.0
2420.6
2497.4
2549.8
2580.0
2597.4
2598.6
2581.2
2550.9
2491.6
2382.2
2204.3
1969.3
1699.4
1433.1
1212.1
1060.8
963.1
888.7
832.9
773.5
704.9
725.8
765.4
788.7
761.9
<i>846.8</i>
784.0
638.6
508.3
419.9
349.0
168.7
0.0

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