

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: STREETWORKS

Report Number: P638507

Luminaire Tested: **IFLD-S-SA2B-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6186.1 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

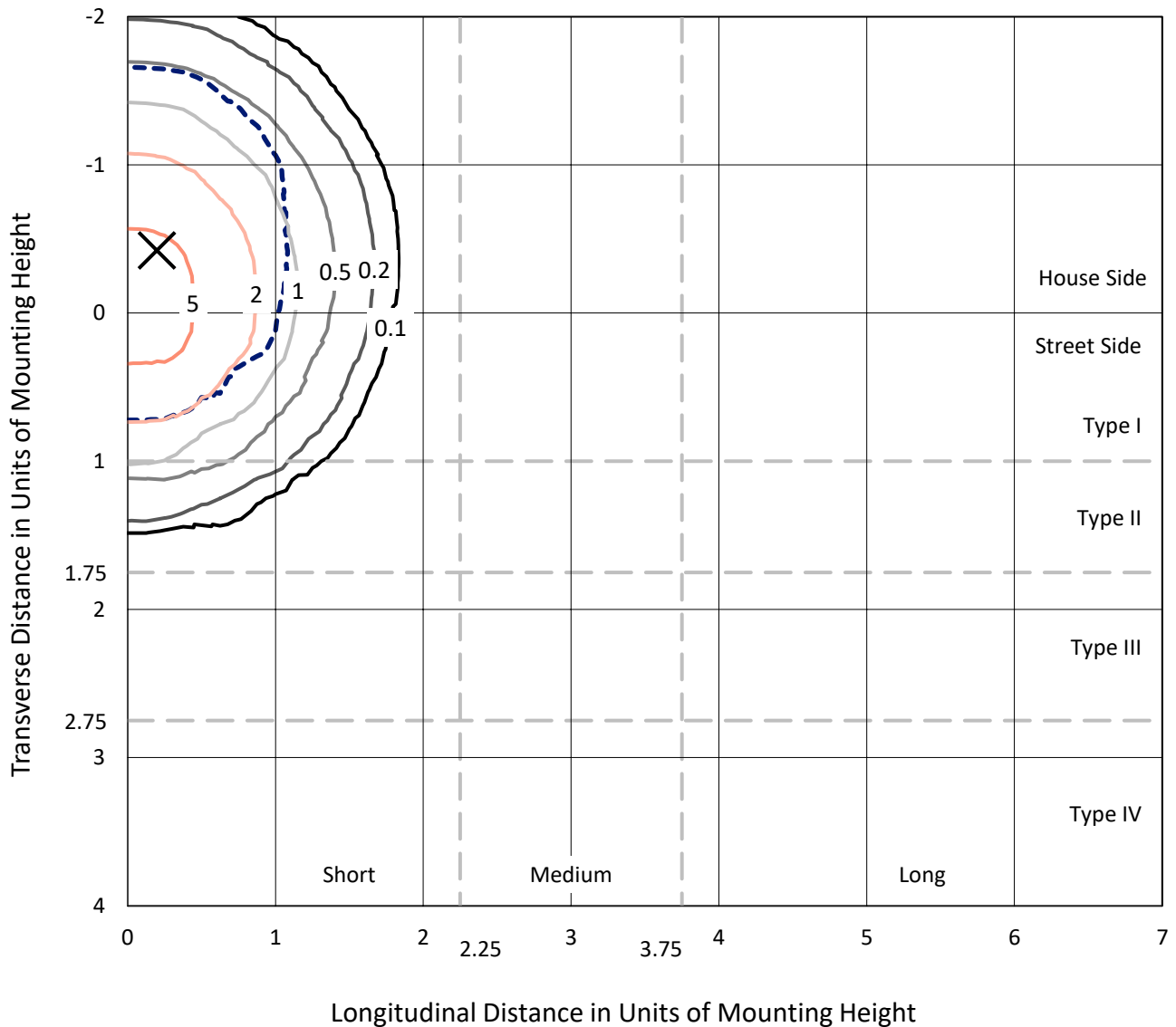
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

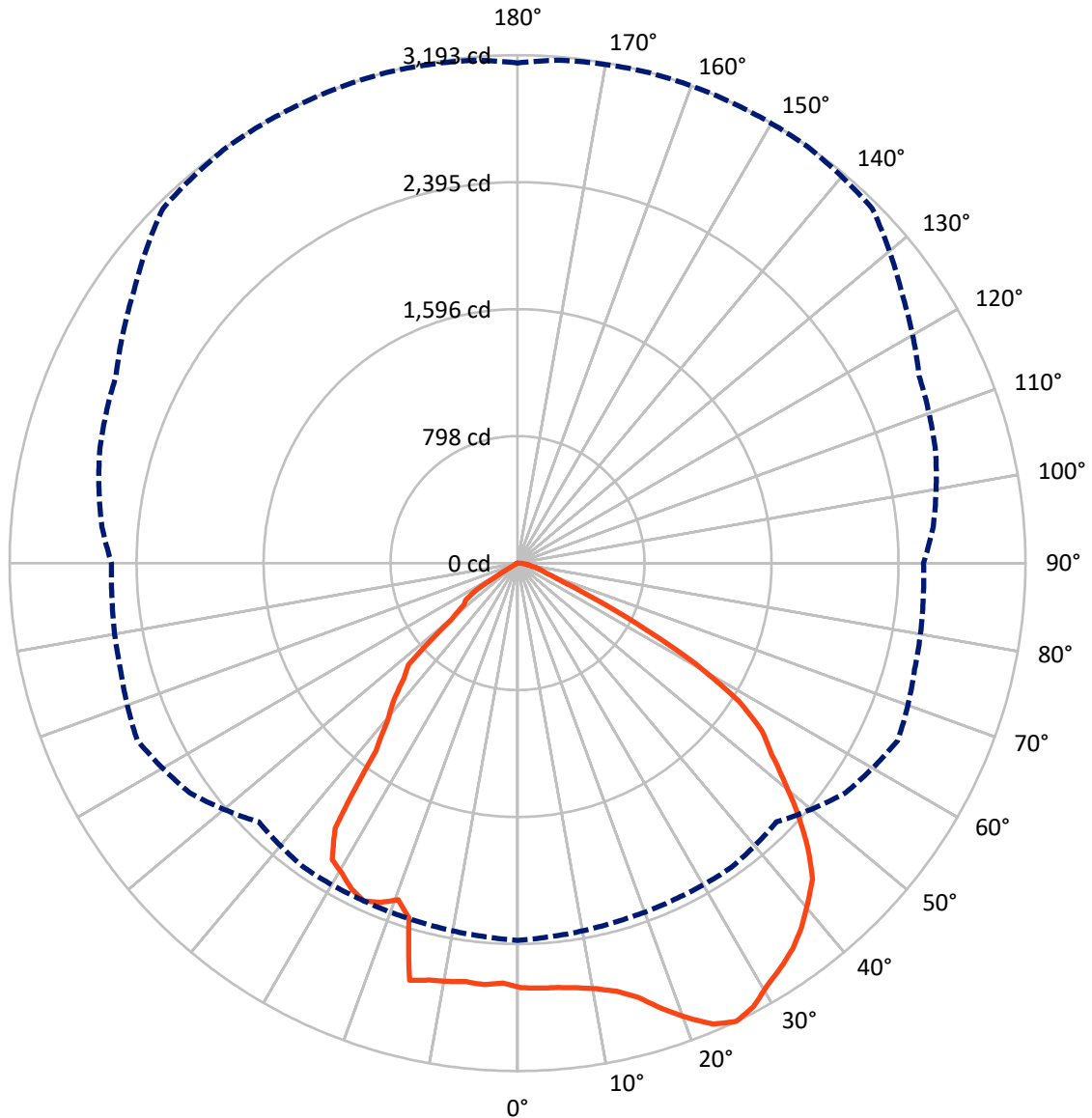
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3829.8	0.0	3829.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2356.3	0.0	2356.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	6186.1	0.0	6186.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	4.1
10°-20°	781.9	12.6
20°-30°	1236.2	20.0
30°-40°	1396.3	22.6
40°-50°	1307.7	21.1
50°-60°	901.6	14.6
60°-70°	242.2	3.9
70°-80°	50.5	0.8
80°-90°	13.7	0.2
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°	6186.1	100.0
0°-180°	6186.1	100.0



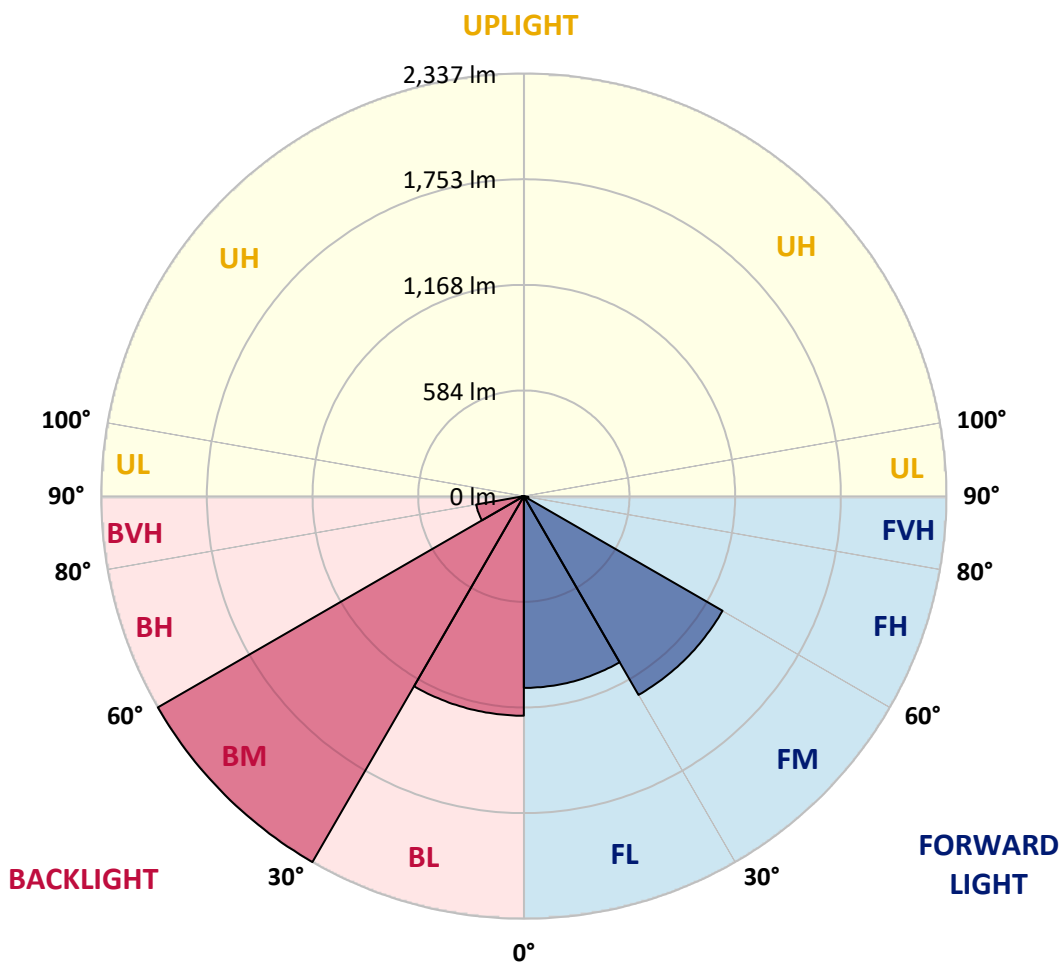
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.1	17.1			
FM (30°-60°)	1268.9	20.5			
FH (60°-80°)	25.4	0.4			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1214.0	19.6	B3/2500		
BM (30°-60°)	2336.7	37.8	B2/2500		
BH (60°-80°)	267.3	4.3	B1/500		G1/500
BVH (80°-90°)	11.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2
2.5°	2681.0	2663.7	2647.4	2641.9	2664.6	2689.2	2673.7	2674.6	2669.2	2679.2
5°	2701.0	2677.4	2666.5	2658.3	2661.9	2687.4	2665.6	2673.7	2664.6	2676.5
7.5°	2693.7	2677.4	2666.5	2651.0	2662.8	2692.8	2671.9	2672.8	2668.3	2679.2
10°	2689.2	2677.4	2663.7	2665.6	2679.2	2704.6	2688.3	2697.4	2691.0	2697.4
12.5°	2700.1	2687.4	2680.1	2680.1	2691.9	2721.0	2712.8	2721.0	2718.3	2723.7
15°	2597.4	2609.2	2678.3	2709.2	2732.8	2761.9	2758.3	2766.5	2768.3	2776.5
17.5°	2191.0	2179.2	2173.7	2332.8	2755.6	2845.6	2842.8	2841.9	2832.8	2826.5
20°	2244.6	2240.1	2233.7	2245.5	2292.8	2889.2	2907.4	2795.6	2762.8	2760.1
22.5°	2330.1	2322.8	2299.2	2300.1	2314.6	2511.9	2817.4	2715.6	2704.6	2698.3
25°	2371.9	2357.4	2338.3	2332.8	2337.4	2301.0	2516.5	2637.4	2583.7	2559.2
27.5°	2298.3	2299.2	2283.7	2298.3	2281.0	2117.4	2025.5	2484.6	2482.8	2471.9
30°	2242.8	2240.1	2221.9	2240.1	2121.0	1938.3	1899.2	2317.4	2298.3	2283.7
32.5°	2072.8	2074.6	2127.4	2198.3	2002.8	1858.3	1740.1	2070.1	2251.0	2242.8
35°	1482.8	1486.4	1673.7	2023.7	1823.7	1699.2	1690.1	1789.2	2176.4	2180.1
37.5°	1427.3	1427.3	1422.8	1480.1	1682.8	1634.6	1652.8	1642.8	1993.7	2002.8
40°	1387.3	1379.1	1372.8	1282.8	1170.0	1589.2	1601.9	1556.4	1884.6	1886.4
42.5°	1339.1	1330.0	1331.9	1165.5	1047.3	1476.4	1441.0	1380.1	1702.8	1704.6
45°	1251.0	1266.4	1277.3	1020.0	1010.9	1054.6	1329.1	1291.0	1580.1	1613.7
47.5°	636.4	650.0	997.3	938.2	959.1	937.3	1122.8	1123.7	1314.6	1426.4
50°	577.3	573.7	574.6	547.3	885.5	758.2	811.8	1030.0	1052.8	1212.8
52.5°	538.2	537.3	481.8	428.2	556.4	667.3	589.1	745.5	782.8	1027.3
55°	398.2	427.3	380.0	402.7	348.2	534.6	531.8	672.8	685.5	823.7
57.5°	3.6	4.5	10.9	306.4	240.9	267.3	367.3	459.1	481.8	641.8
60°	0.9	1.8	4.5	9.1	156.4	164.6	245.5	265.5	299.1	382.7
62.5°	0.0	0.0	1.8	4.5	8.2	67.3	78.2	85.5	131.8	195.5
65°	0.0	0.0	0.9	2.7	4.5	10.9	19.1	40.0	57.3	70.9
67.5°	0.0	0.0	0.9	1.8	3.6	5.5	10.9	15.5	24.5	41.8
70°	0.0	0.0	0.9	1.8	2.7	4.5	7.3	10.9	14.5	20.9
72.5°	0.0	0.0	0.9	1.8	1.8	5.5	5.5	8.2	10.9	13.6
75°	0.0	0.0	0.9	0.9	1.8	3.6	5.5	6.4	7.3	10.9
77.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.5	7.3	6.4	6.4
80°	0.0	0.0	0.9	2.7	2.7	4.5	5.5	7.3	4.5	4.5
82.5°	0.0	0.0	0.9	3.6	2.7	9.1	9.1	10.0	3.6	3.6
85°	0.0	0.0	2.7	1.8	5.5	9.1	8.2	5.5	4.5	2.7
87.5°	0.0	0.0	0.9	0.9	1.8	2.7	6.4	5.5	1.8	1.8
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2669.2	0°	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2	2669.2
2652.8	2.5°	2689.2	2677.4	2701.9	2699.2	2687.4	2681.9	2675.6	2670.1	2630.1
2654.6	5°	2690.1	2671.9	2701.9	2696.5	2694.6	2685.6	2680.1	2688.3	2651.9
2661.9	7.5°	2690.1	2671.9	2704.6	2706.5	2703.7	2696.5	2695.6	2701.0	2671.0
2674.6	10°	2708.3	2701.0	2728.3	2731.0	2727.4	2725.6	2721.0	2717.4	2685.6
2718.3	12.5°	2746.5	2731.9	2762.8	2771.0	2768.3	2772.8	2761.9	2767.4	2734.6
2762.8	15°	2792.8	2793.7	2817.4	2835.6	2833.7	2848.3	2831.9	2846.5	2822.8
2813.7	17.5°	2863.7	2873.7	2907.4	2934.7	2944.7	2955.6	2944.7	2949.2	2915.6
2757.4	20°	2789.2	2826.5	2988.3	3038.3	3059.2	3069.2	3051.0	3056.5	3022.8
2688.3	22.5°	2721.9	2770.1	2913.7	3070.1	3134.7	3154.7	3148.3	3147.4	3134.7
2551.9	25°	2622.8	2720.1	2784.6	2950.1	3152.8	3189.2	3192.8	3191.9	3172.8
2468.3	27.5°	2501.0	2522.8	2690.1	2791.0	3025.6	3163.8	3158.3	3131.9	3106.5
2294.6	30°	2345.5	2444.6	2520.1	2681.0	2861.0	3085.6	3085.6	3065.6	3039.2
2232.8	32.5°	2266.4	2394.6	2464.6	2522.8	2676.5	2998.3	3034.7	3013.7	2992.8
2184.6	35°	2224.6	2243.7	2407.4	2460.1	2590.1	2830.1	2977.4	2956.5	2941.0
2056.4	37.5°	2132.8	2177.4	2253.7	2394.6	2434.6	2692.8	2901.0	2890.1	2871.9
1890.1	40°	1928.3	2047.3	2164.6	2298.3	2340.1	2516.5	2808.3	2812.8	2788.3
1712.8	42.5°	1807.3	1888.3	2071.9	2161.9	2274.6	2402.8	2718.3	2725.6	2708.3
1622.8	45°	1665.5	1755.5	1884.6	2048.3	2201.9	2246.4	2559.2	2635.6	2621.0
1443.7	47.5°	1535.5	1608.2	1766.4	1931.9	2101.9	2095.5	2376.5	2520.1	2500.1
1306.4	50°	1351.0	1478.2	1552.8	1704.6	1958.3	1975.5	2181.9	2384.6	2368.3
1110.0	52.5°	1139.1	1299.1	1441.9	1581.0	1812.8	1853.7	2001.0	2246.4	2235.5
848.2	55°	995.5	1111.9	1272.8	1384.6	1636.4	1745.5	1865.5	2114.6	2109.2
697.3	57.5°	708.2	932.8	1065.5	1221.9	1354.6	1551.9	1641.0	1846.4	1795.5
386.4	60°	480.0	585.5	747.3	915.5	1004.6	1201.9	1284.6	1449.1	1435.5
230.9	62.5°	253.6	350.9	466.4	550.9	615.5	807.3	841.8	1019.1	1014.6
92.7	65°	111.8	148.2	252.7	296.4	362.7	451.8	481.8	545.5	530.0
45.5	67.5°	58.2	88.2	142.7	175.5	220.9	254.6	279.1	299.1	311.8
30.0	70°	35.5	64.5	88.2	121.8	151.8	179.1	198.2	225.5	241.8
15.5	72.5°	26.4	40.9	60.9	93.6	110.0	141.8	160.9	180.9	195.5
12.7	75°	14.5	27.3	49.1	73.6	88.2	115.5	132.7	146.4	150.9
7.3	77.5°	9.1	20.9	40.9	57.3	69.1	93.6	89.1	101.8	112.7
5.5	80°	6.4	15.5	31.8	47.3	48.2	60.0	70.9	81.8	89.1
3.6	82.5°	4.5	12.7	23.6	36.4	31.8	46.4	55.5	63.6	46.4
2.7	85°	3.6	9.1	11.8	21.8	18.2	32.7	28.2	27.3	18.2
1.8	87.5°	2.7	4.5	8.2	10.0	7.3	7.3	9.1	10.9	9.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2669.2
2602.8
2621.0
2636.5
2659.2
2705.6
2783.7
2886.5
2999.2
3093.8
3143.8
3086.5
3029.2
2975.6
2919.2
2853.7
2782.8
2706.5
2622.8
2514.6
2371.0
2242.8
2115.5
1790.1
1436.4
1015.5
523.7
311.8
242.7
198.2
148.2
114.5
90.0
33.6
18.2
9.1
0.0

(END OF REPORT)