

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: P636912

Luminaire Tested: **IFLD-S-SA2B-935-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636912  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-935-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5587.8 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

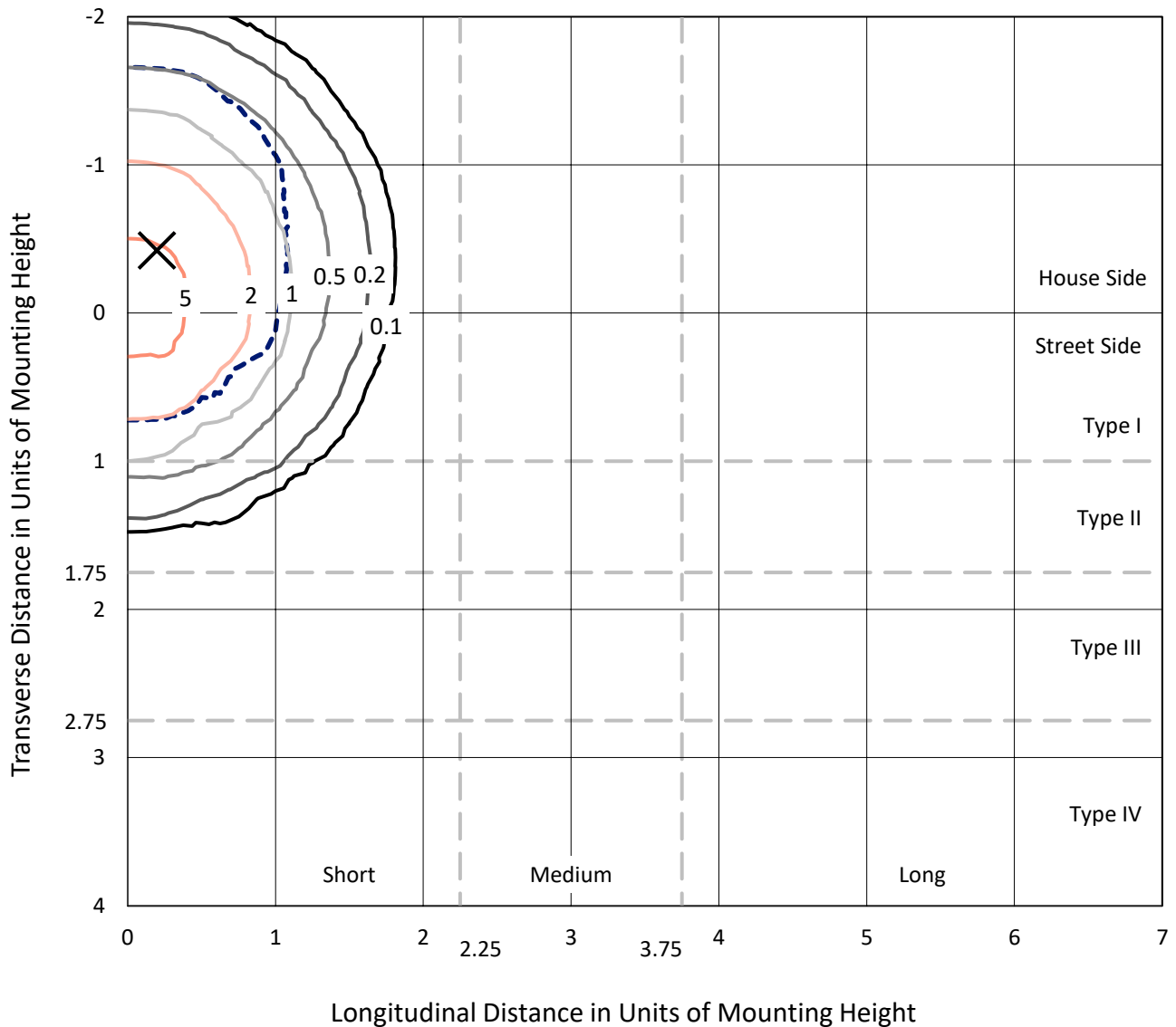
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

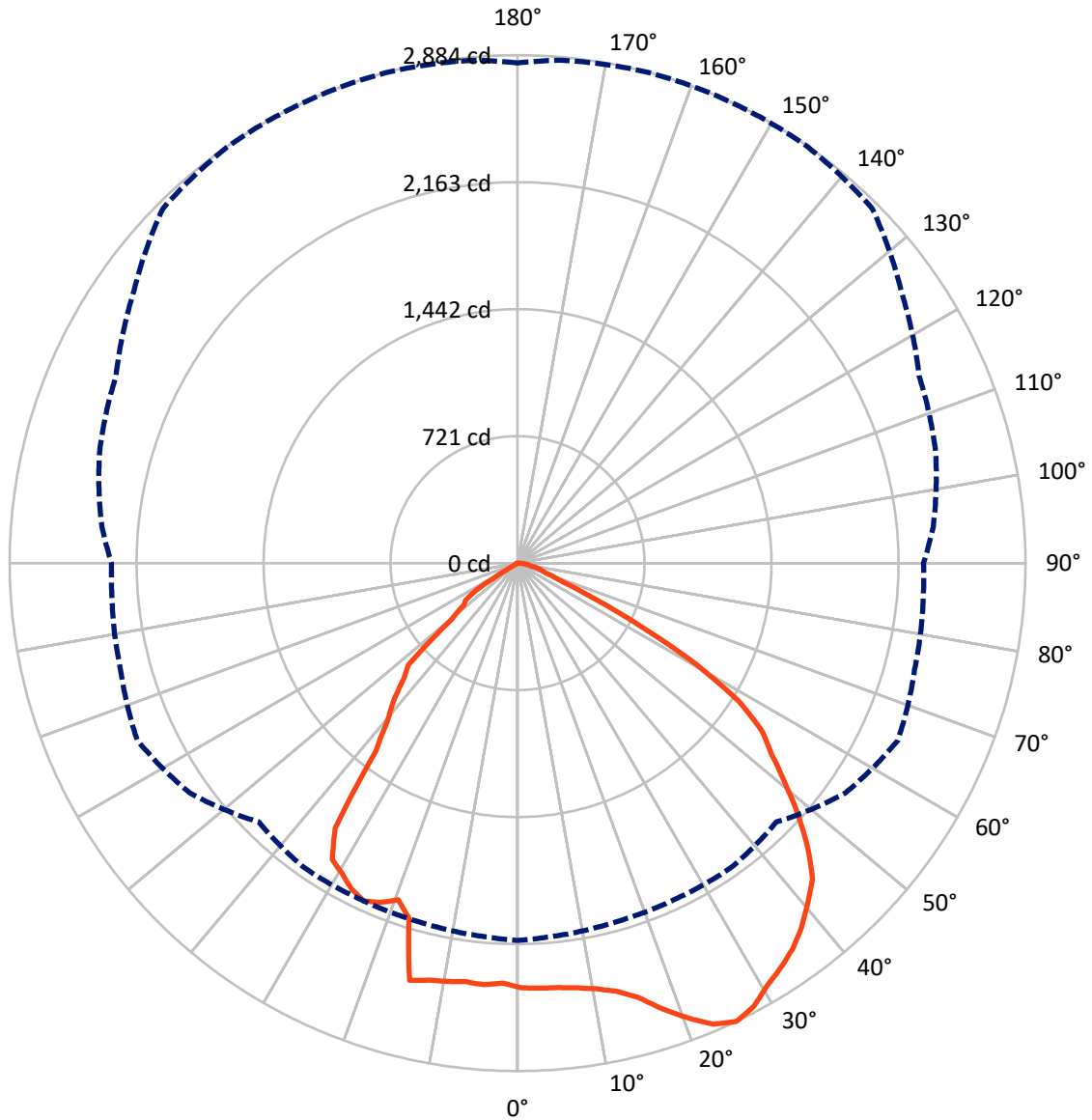
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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
<b>House Side</b>	Lumens	3459.4	0.0	3459.4
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	2128.4	0.0	2128.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	5587.8	0.0	5587.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.3	4.1
10°-20°	706.3	12.6
20°-30°	1116.6	20.0
30°-40°	1261.3	22.6
40°-50°	1181.2	21.1
50°-60°	814.4	14.6
60°-70°	218.8	3.9
70°-80°	45.6	0.8
80°-90°	12.3	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°	5587.8	100.0
0°-180°	5587.8	100.0



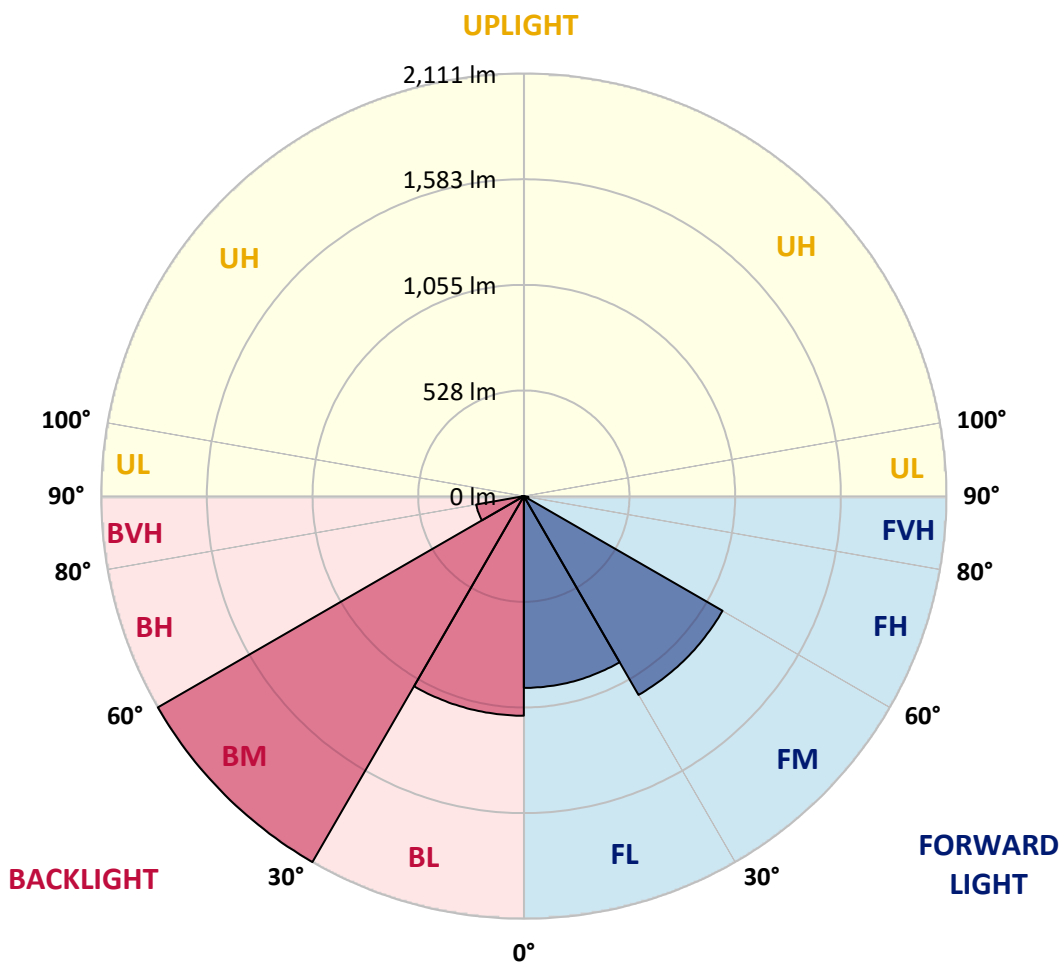
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.6	17.1			
FM (30°-60°)	1146.2	20.5			
FH (60°-80°)	23.0	0.4			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1096.6	19.6	B3/2500		
BM (30°-60°)	2110.7	37.8	B2/2500		
BH (60°-80°)	241.4	4.3	B1/500		G1/500
BVH (80°-90°)	10.7	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°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
2.5°	2421.7	2406.1	2391.3	2386.4	2406.9	2429.1	2415.1	2415.9	2411.0	2420.1
5°	2439.8	2418.4	2408.6	2401.2	2404.5	2427.4	2407.7	2415.1	2406.9	2417.6
7.5°	2433.2	2418.4	2408.6	2394.6	2405.3	2432.4	2413.5	2414.3	2410.2	2420.1
10°	2429.1	2418.4	2406.1	2407.7	2420.1	2443.0	2428.3	2436.5	2430.7	2436.5
12.5°	2438.9	2427.4	2420.9	2420.9	2431.6	2457.8	2450.4	2457.8	2455.4	2460.3
15°	2346.1	2356.8	2419.2	2447.2	2468.5	2494.8	2491.5	2498.9	2500.5	2507.9
17.5°	1979.1	1968.4	1963.5	2107.2	2489.0	2570.3	2567.9	2567.0	2558.8	2553.1
20°	2027.5	2023.4	2017.7	2028.3	2071.0	2609.8	2626.2	2525.2	2495.6	2493.1
22.5°	2104.7	2098.1	2076.8	2077.6	2090.8	2269.0	2544.9	2452.9	2443.0	2437.3
25°	2142.5	2129.4	2112.1	2107.2	2111.3	2078.4	2273.1	2382.3	2333.8	2311.7
27.5°	2076.0	2076.8	2062.8	2076.0	2060.4	1912.6	1829.6	2244.3	2242.7	2232.8
30°	2025.9	2023.4	2007.0	2023.4	1915.8	1750.8	1715.5	2093.2	2076.0	2062.8
32.5°	1872.3	1874.0	1921.6	1985.6	1809.1	1678.5	1571.8	1869.9	2033.3	2025.9
35°	1339.4	1342.7	1511.8	1828.0	1647.3	1534.8	1526.6	1616.1	1965.9	1969.2
37.5°	1289.3	1289.3	1285.2	1336.9	1520.0	1476.5	1492.9	1483.9	1800.9	1809.1
40°	1253.1	1245.7	1240.0	1158.7	1056.9	1435.4	1446.9	1405.9	1702.3	1704.0
42.5°	1209.6	1201.4	1203.0	1052.8	946.0	1333.6	1301.6	1246.6	1538.1	1539.7
45°	1130.0	1143.9	1153.8	921.4	913.2	952.6	1200.6	1166.1	1427.2	1457.6
47.5°	574.8	587.2	900.8	847.5	866.4	846.6	1014.2	1015.0	1187.4	1288.5
50°	521.5	518.2	519.0	494.4	799.8	684.9	733.3	930.4	950.9	1095.5
52.5°	486.1	485.3	435.2	386.8	502.6	602.8	532.1	673.4	707.0	927.9
55°	359.7	386.0	343.3	363.8	314.5	482.9	480.4	607.7	619.2	744.0
57.5°	3.3	4.1	9.9	276.7	217.6	241.4	331.8	414.7	435.2	579.8
60°	0.8	1.6	4.1	8.2	141.2	148.6	221.7	239.8	270.2	345.7
62.5°	0.0	0.0	1.6	4.1	7.4	60.8	70.6	77.2	119.1	176.6
65°	0.0	0.0	0.8	2.5	4.1	9.9	17.2	36.1	51.7	64.1
67.5°	0.0	0.0	0.8	1.6	3.3	4.9	9.9	14.0	22.2	37.8
70°	0.0	0.0	0.8	1.6	2.5	4.1	6.6	9.9	13.1	18.9
72.5°	0.0	0.0	0.8	1.6	1.6	4.9	4.9	7.4	9.9	12.3
75°	0.0	0.0	0.8	0.8	1.6	3.3	4.9	5.7	6.6	9.9
77.5°	0.0	0.0	0.8	1.6	2.5	3.3	4.1	6.6	5.7	5.7
80°	0.0	0.0	0.8	2.5	2.5	4.1	4.9	6.6	4.1	4.1
82.5°	0.0	0.0	0.8	3.3	2.5	8.2	8.2	9.0	3.3	3.3
85°	0.0	0.0	2.5	1.6	4.9	8.2	7.4	4.9	4.1	2.5
87.5°	0.0	0.0	0.8	0.8	1.6	2.5	5.7	4.9	1.6	1.6
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°
2411.0	0°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
2396.2	2.5°	2429.1	2418.4	2440.6	2438.1	2427.4	2422.5	2416.8	2411.8	2375.7
2397.9	5°	2429.9	2413.5	2440.6	2435.7	2434.0	2425.8	2420.9	2428.3	2395.4
2404.5	7.5°	2429.9	2413.5	2443.0	2444.7	2442.2	2435.7	2434.8	2439.8	2412.7
2415.9	10°	2446.3	2439.8	2464.4	2466.9	2463.6	2461.9	2457.8	2454.5	2425.8
2455.4	12.5°	2480.8	2467.7	2495.6	2503.0	2500.5	2504.6	2494.8	2499.7	2470.1
2495.6	15°	2522.7	2523.5	2544.9	2561.3	2559.7	2572.8	2558.0	2571.2	2549.8
2541.6	17.5°	2586.8	2595.8	2626.2	2650.8	2659.8	2669.7	2659.8	2664.0	2633.6
2490.7	20°	2519.4	2553.1	2699.3	2744.4	2763.3	2772.3	2755.9	2760.9	2730.5
2428.3	22.5°	2458.7	2502.2	2631.9	2773.2	2831.5	2849.5	2843.8	2843.0	2831.5
2305.1	25°	2369.1	2457.0	2515.3	2664.8	2847.9	2880.7	2884.0	2883.2	2866.0
2229.5	27.5°	2259.1	2278.8	2429.9	2521.1	2732.9	2857.8	2852.8	2829.0	2806.0
2072.7	30°	2118.7	2208.2	2276.3	2421.7	2584.3	2787.1	2787.1	2769.1	2745.2
2016.9	32.5°	2047.2	2163.0	2226.3	2278.8	2417.6	2708.3	2741.1	2722.3	2703.4
1973.3	35°	2009.5	2026.7	2174.5	2222.1	2339.6	2556.4	2689.4	2670.5	2656.6
1857.5	37.5°	1926.5	1966.8	2035.7	2163.0	2199.2	2432.4	2620.4	2610.6	2594.1
1707.3	40°	1741.8	1849.3	1955.3	2076.0	2113.8	2273.1	2536.7	2540.8	2518.6
1547.1	42.5°	1632.5	1705.6	1871.5	1952.8	2054.6	2170.4	2455.4	2461.9	2446.3
1465.8	45°	1504.4	1585.7	1702.3	1850.1	1988.9	2029.2	2311.7	2380.6	2367.5
1304.1	47.5°	1387.0	1452.7	1595.6	1745.0	1898.6	1892.8	2146.6	2276.3	2258.3
1180.1	50°	1220.3	1335.3	1402.6	1539.7	1768.8	1784.5	1970.9	2154.0	2139.2
1002.7	52.5°	1029.0	1173.5	1302.4	1428.1	1637.5	1674.4	1807.4	2029.2	2019.3
766.2	55°	899.2	1004.3	1149.7	1250.7	1478.1	1576.7	1685.1	1910.1	1905.2
629.9	57.5°	639.7	842.5	962.4	1103.7	1223.6	1401.8	1482.3	1667.8	1621.9
349.0	60°	433.6	528.8	675.0	826.9	907.4	1085.6	1160.3	1309.0	1296.7
208.6	62.5°	229.1	317.0	421.3	497.6	555.9	729.2	760.4	920.6	916.5
83.8	65°	101.0	133.9	228.3	267.7	327.7	408.1	435.2	492.7	478.8
41.1	67.5°	52.6	79.7	128.9	158.5	199.5	229.9	252.1	270.2	281.7
27.1	70°	32.0	58.3	79.7	110.0	137.1	161.8	179.0	203.7	218.4
14.0	72.5°	23.8	37.0	55.0	84.6	99.4	128.1	145.4	163.4	176.6
11.5	75°	13.1	24.6	44.3	66.5	79.7	104.3	119.9	132.2	136.3
6.6	77.5°	8.2	18.9	37.0	51.7	62.4	84.6	80.5	92.0	101.8
4.9	80°	5.7	14.0	28.7	42.7	43.5	54.2	64.1	73.9	80.5
3.3	82.5°	4.1	11.5	21.4	32.8	28.7	41.9	50.1	57.5	41.9
2.5	85°	3.3	8.2	10.7	19.7	16.4	29.6	25.5	24.6	16.4
1.6	87.5°	2.5	4.1	7.4	9.0	6.6	6.6	8.2	9.9	8.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
2411.0  
2351.1  
2367.5  
2381.5  
2402.0  
2443.9  
2514.5  
2607.3  
2709.1  
2794.5  
2839.7  
2788.0  
2736.2  
2687.8  
2636.9  
2577.7  
2513.7  
2444.7  
2369.1  
2271.4  
2141.7  
2025.9  
1910.9  
1616.9  
1297.5  
917.3  
473.0  
281.7  
219.3  
179.0  
133.9  
103.5  
81.3  
30.4  
16.4  
8.2  
0.0

(END OF REPORT)