

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: P638535

Luminaire Tested: **IFLD-S-SA2A-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5406.8 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

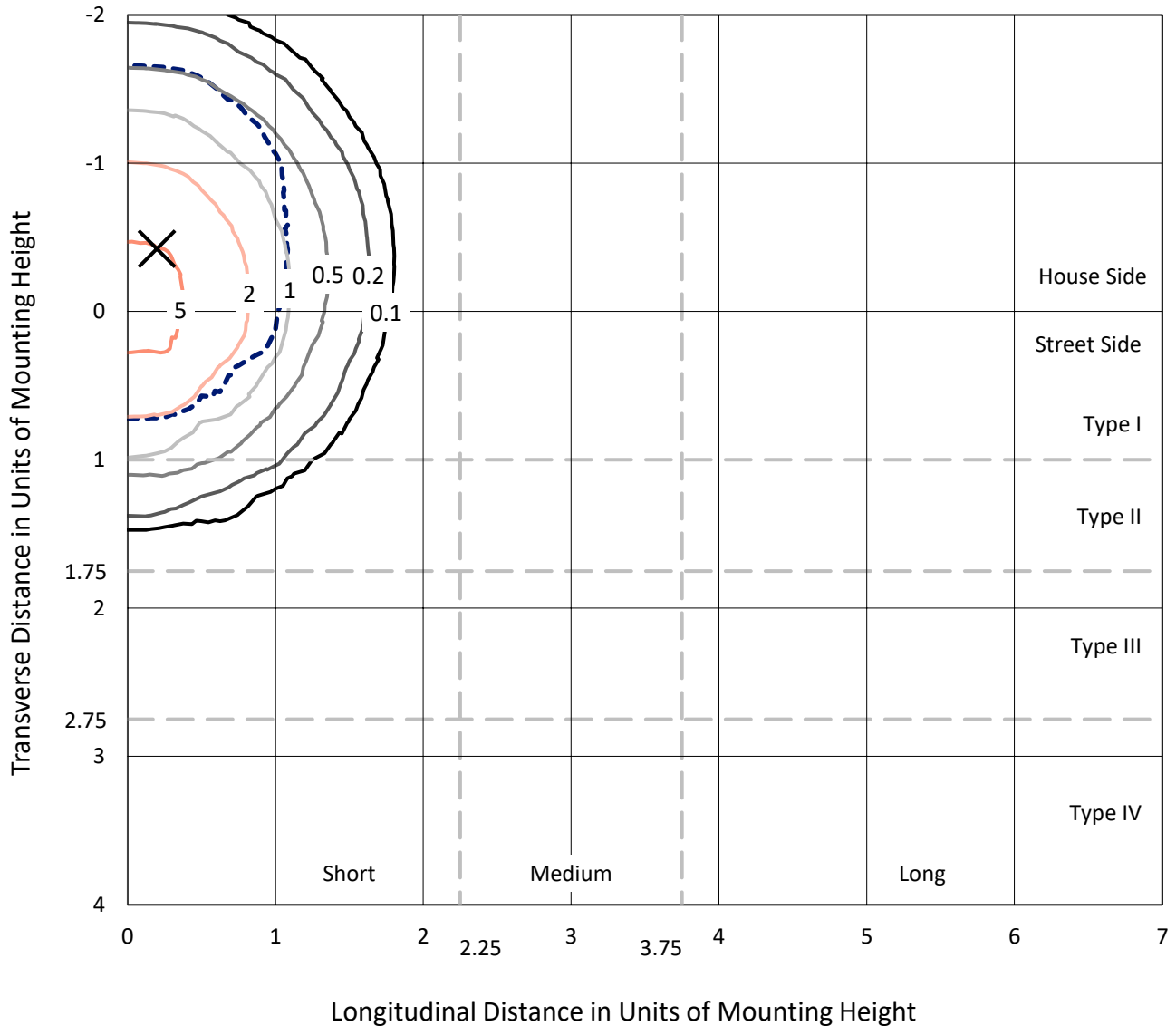
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638535
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

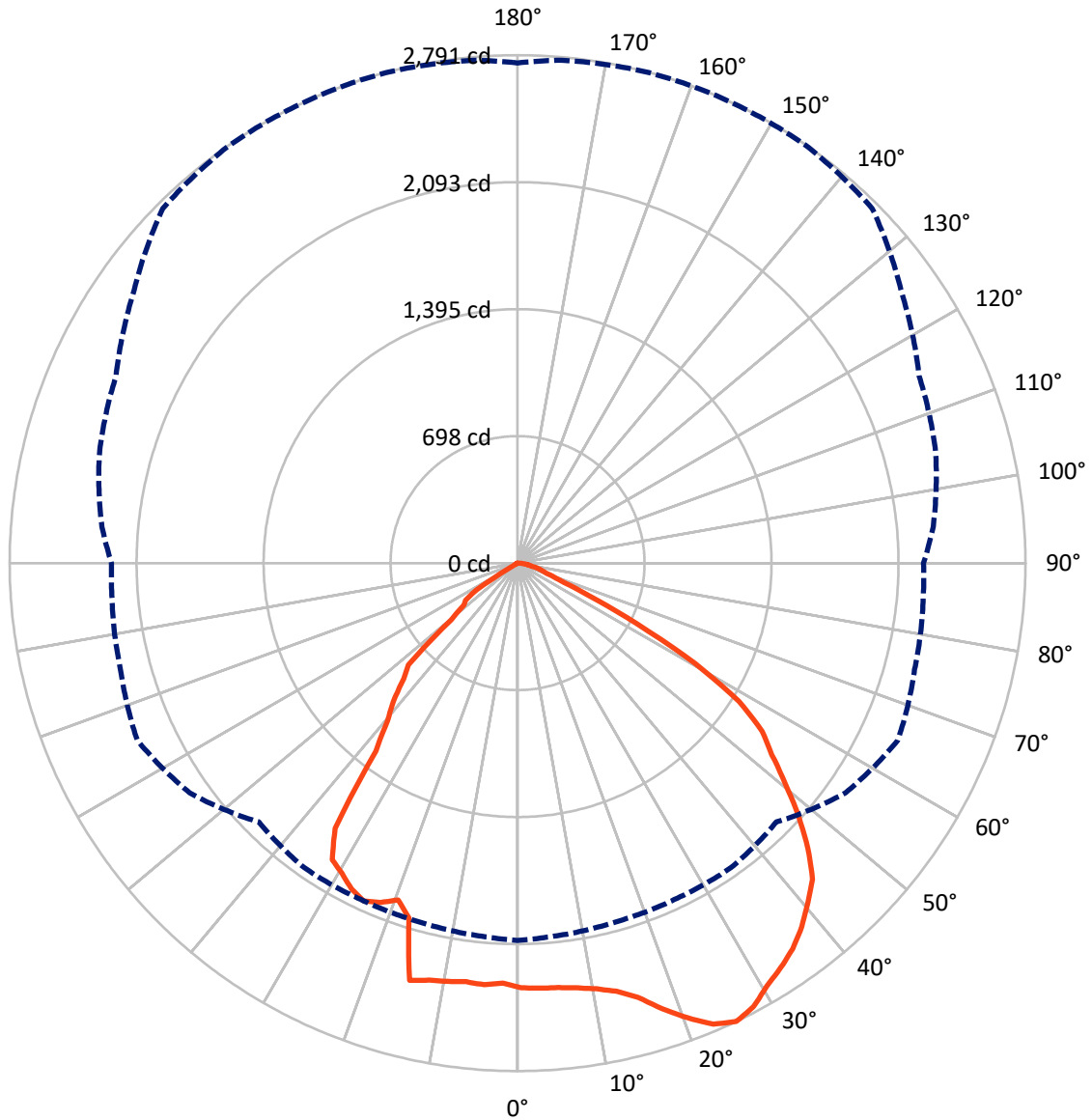
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638535
CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638535
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3347.4	0.0	3347.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2059.5	0.0	2059.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	5406.8	0.0	5406.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	4.1
10°-20°	683.4	12.6
20°-30°	1080.4	20.0
30°-40°	1220.4	22.6
40°-50°	1143.0	21.1
50°-60°	788.0	14.6
60°-70°	211.7	3.9
70°-80°	44.1	0.8
80°-90°	11.9	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°	5406.8	100.0
0°-180°	5406.8	100.0



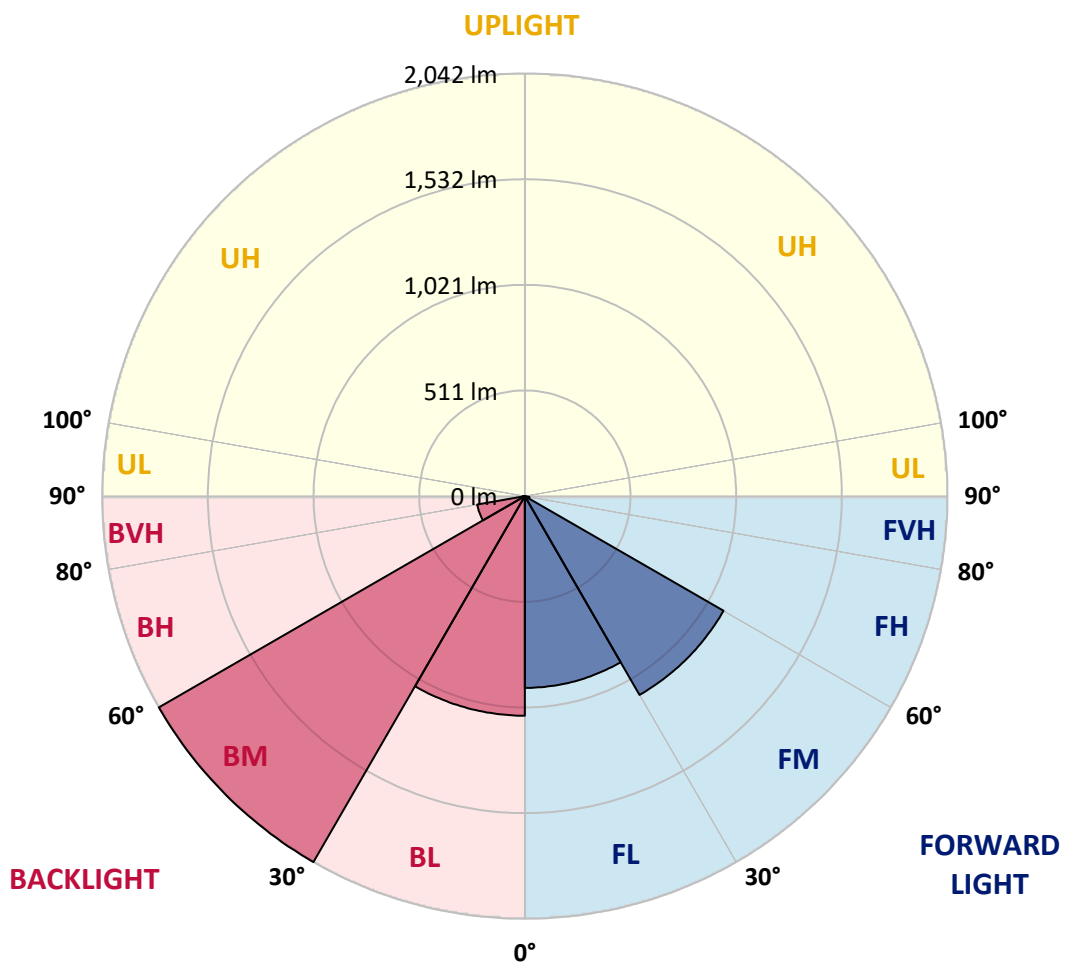
REPORT NUMBER: P638535
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.6	17.1			
FM (30°-60°)	1109.1	20.5			
FH (60°-80°)	22.2	0.4			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1061.1	19.6	B3/2500		
BM (30°-60°)	2042.3	37.8	B2/2500		
BH (60°-80°)	233.6	4.3	B1/500		G1/500
BVH (80°-90°)	10.3	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





REPORT NUMBER: P638535
 CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0
2.5°	2343.3	2328.2	2313.9	2309.1	2329.0	2350.4	2336.9	2337.7	2333.0	2341.7
5°	2360.8	2340.1	2330.6	2323.4	2326.6	2348.8	2329.8	2336.9	2329.0	2339.3
7.5°	2354.4	2340.1	2330.6	2317.1	2327.4	2353.6	2335.3	2336.1	2332.2	2341.7
10°	2350.4	2340.1	2328.2	2329.8	2341.7	2363.9	2349.6	2357.6	2352.0	2357.6
12.5°	2360.0	2348.8	2342.5	2342.5	2352.8	2378.2	2371.1	2378.2	2375.9	2380.6
15°	2270.2	2280.5	2340.9	2367.9	2388.6	2414.0	2410.8	2418.0	2419.6	2426.7
17.5°	1915.0	1904.7	1899.9	2039.0	2408.4	2487.1	2484.7	2483.9	2476.0	2470.4
20°	1961.9	1957.9	1952.3	1962.7	2004.0	2525.3	2541.1	2443.4	2414.8	2412.4
22.5°	2036.6	2030.2	2009.6	2010.3	2023.1	2195.5	2462.5	2373.5	2363.9	2358.4
25°	2073.1	2060.4	2043.7	2039.0	2042.9	2011.1	2199.5	2305.1	2258.3	2236.8
27.5°	2008.8	2009.6	1996.0	2008.8	1993.7	1850.6	1770.4	2171.7	2170.1	2160.5
30°	1960.3	1957.9	1942.0	1957.9	1853.8	1694.1	1659.9	2025.4	2008.8	1996.0
32.5°	1811.7	1813.3	1859.4	1921.4	1750.5	1624.2	1520.9	1809.3	1967.4	1960.3
35°	1296.0	1299.2	1462.9	1768.8	1594.0	1485.1	1477.2	1563.8	1902.3	1905.5
37.5°	1247.5	1247.5	1243.6	1293.6	1470.8	1428.7	1444.6	1435.8	1742.6	1750.5
40°	1212.6	1205.4	1199.9	1121.2	1022.7	1389.0	1400.1	1360.4	1647.2	1648.8
42.5°	1170.5	1162.5	1164.1	1018.7	915.4	1290.4	1259.4	1206.2	1488.3	1489.9
45°	1093.4	1106.9	1116.4	891.5	883.6	921.7	1161.7	1128.3	1381.0	1410.4
47.5°	556.2	568.1	871.7	820.0	838.3	819.2	981.3	982.1	1149.0	1246.7
50°	504.6	501.4	502.2	478.4	773.9	662.7	709.6	900.3	920.2	1060.0
52.5°	470.4	469.6	421.1	374.3	486.3	583.2	514.9	651.6	684.2	897.9
55°	348.0	373.5	332.1	352.0	304.3	467.2	464.8	588.0	599.1	719.9
57.5°	3.2	4.0	9.5	267.8	210.6	233.6	321.0	401.3	421.1	561.0
60°	0.8	1.6	4.0	7.9	136.7	143.8	214.5	232.0	261.4	334.5
62.5°	0.0	0.0	1.6	4.0	7.2	58.8	68.3	74.7	115.2	170.8
65°	0.0	0.0	0.8	2.4	4.0	9.5	16.7	35.0	50.1	62.0
67.5°	0.0	0.0	0.8	1.6	3.2	4.8	9.5	13.5	21.5	36.6
70°	0.0	0.0	0.8	1.6	2.4	4.0	6.4	9.5	12.7	18.3
72.5°	0.0	0.0	0.8	1.6	1.6	4.8	4.8	7.2	9.5	11.9
75°	0.0	0.0	0.8	0.8	1.6	3.2	4.8	5.6	6.4	9.5
77.5°	0.0	0.0	0.8	1.6	2.4	3.2	4.0	6.4	5.6	5.6
80°	0.0	0.0	0.8	2.4	2.4	4.0	4.8	6.4	4.0	4.0
82.5°	0.0	0.0	0.8	3.2	2.4	7.9	7.9	8.7	3.2	3.2
85°	0.0	0.0	2.4	1.6	4.8	7.9	7.2	4.8	4.0	2.4
87.5°	0.0	0.0	0.8	0.8	1.6	2.4	5.6	4.8	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



REPORT NUMBER: P638535

CATALOG NUMBER: IFLD-S-SA2A-830-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
2333.0	0°	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0	2333.0
2318.7	2.5°	2350.4	2340.1	2361.6	2359.2	2348.8	2344.1	2338.5	2333.8	2298.8
2320.2	5°	2351.2	2335.3	2361.6	2356.8	2355.2	2347.3	2342.5	2349.6	2317.9
2326.6	7.5°	2351.2	2335.3	2363.9	2365.5	2363.2	2356.8	2356.0	2360.8	2334.5
2337.7	10°	2367.1	2360.8	2384.6	2387.0	2383.8	2382.2	2378.2	2375.1	2347.3
2375.9	12.5°	2400.5	2387.8	2414.8	2422.0	2419.6	2423.5	2414.0	2418.8	2390.2
2414.8	15°	2441.0	2441.8	2462.5	2478.4	2476.8	2489.5	2475.2	2487.9	2467.2
2459.3	17.5°	2503.0	2511.7	2541.1	2565.0	2573.7	2583.3	2573.7	2577.7	2548.3
2410.0	20°	2437.8	2470.4	2611.9	2655.6	2673.8	2682.6	2666.7	2671.5	2642.1
2349.6	22.5°	2379.0	2421.2	2546.7	2683.4	2739.8	2757.3	2751.7	2750.9	2739.8
2230.5	25°	2292.4	2377.5	2433.9	2578.5	2755.7	2787.5	2790.6	2789.9	2773.2
2157.3	27.5°	2186.0	2205.0	2351.2	2439.4	2644.4	2765.2	2760.5	2737.4	2715.2
2005.6	30°	2050.1	2136.7	2202.6	2343.3	2500.6	2696.9	2696.9	2679.4	2656.4
1951.5	32.5°	1980.9	2093.0	2154.2	2205.0	2339.3	2620.6	2652.4	2634.1	2615.8
1909.4	35°	1944.4	1961.1	2104.1	2150.2	2263.8	2473.6	2602.3	2584.1	2570.5
1797.4	37.5°	1864.1	1903.1	1969.8	2093.0	2127.9	2353.6	2535.6	2526.0	2510.2
1652.0	40°	1685.4	1789.4	1892.0	2008.8	2045.3	2199.5	2454.5	2458.5	2437.0
1497.0	42.5°	1579.7	1650.4	1810.9	1889.6	1988.1	2100.1	2375.9	2382.2	2367.1
1418.4	45°	1455.7	1534.4	1647.2	1790.2	1924.5	1963.5	2236.8	2303.6	2290.8
1261.8	47.5°	1342.1	1405.7	1543.9	1688.5	1837.1	1831.6	2077.1	2202.6	2185.2
1141.8	50°	1180.8	1292.0	1357.2	1489.9	1711.6	1726.7	1907.0	2084.2	2069.9
970.2	52.5°	995.6	1135.5	1260.2	1381.8	1584.4	1620.2	1748.9	1963.5	1953.9
741.4	55°	870.1	971.8	1112.4	1210.2	1430.3	1525.6	1630.5	1848.2	1843.5
609.5	57.5°	619.0	815.3	931.3	1067.9	1184.0	1356.4	1434.3	1613.8	1569.3
337.7	60°	419.6	511.7	653.2	800.2	878.0	1050.5	1122.8	1266.6	1254.7
201.8	62.5°	221.7	306.7	407.6	481.5	537.9	705.6	735.8	890.8	886.8
81.0	65°	97.7	129.5	220.9	259.0	317.0	394.9	421.1	476.8	463.3
39.7	67.5°	50.9	77.1	124.8	153.4	193.1	222.5	243.9	261.4	272.5
26.2	70°	31.0	56.4	77.1	106.5	132.7	156.5	173.2	197.1	211.4
13.5	72.5°	23.0	35.8	53.2	81.8	96.1	124.0	140.6	158.1	170.8
11.1	75°	12.7	23.8	42.9	64.4	77.1	100.9	116.0	127.9	131.9
6.4	77.5°	7.9	18.3	35.8	50.1	60.4	81.8	77.9	89.0	98.5
4.8	80°	5.6	13.5	27.8	41.3	42.1	52.4	62.0	71.5	77.9
3.2	82.5°	4.0	11.1	20.7	31.8	27.8	40.5	48.5	55.6	40.5
2.4	85°	3.2	7.9	10.3	19.1	15.9	28.6	24.6	23.8	15.9
1.6	87.5°	2.4	4.0	7.2	8.7	6.4	6.4	7.9	9.5	7.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2333.0
2275.0
2290.8
2304.4
2324.2
2364.7
2433.1
2522.9
2621.4
2704.0
2747.7
2697.7
2647.6
2600.7
2551.5
2494.3
2432.3
2365.5
2292.4
2197.9
2072.3
1960.3
1849.0
1564.6
1255.5
887.6
457.7
272.5
212.2
173.2
129.5
100.1
78.7
29.4
15.9
7.9
0.0

(END OF REPORT)