

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: P638303

Luminaire Tested: **IFLD-S-SA2A-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638303
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5012.2 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

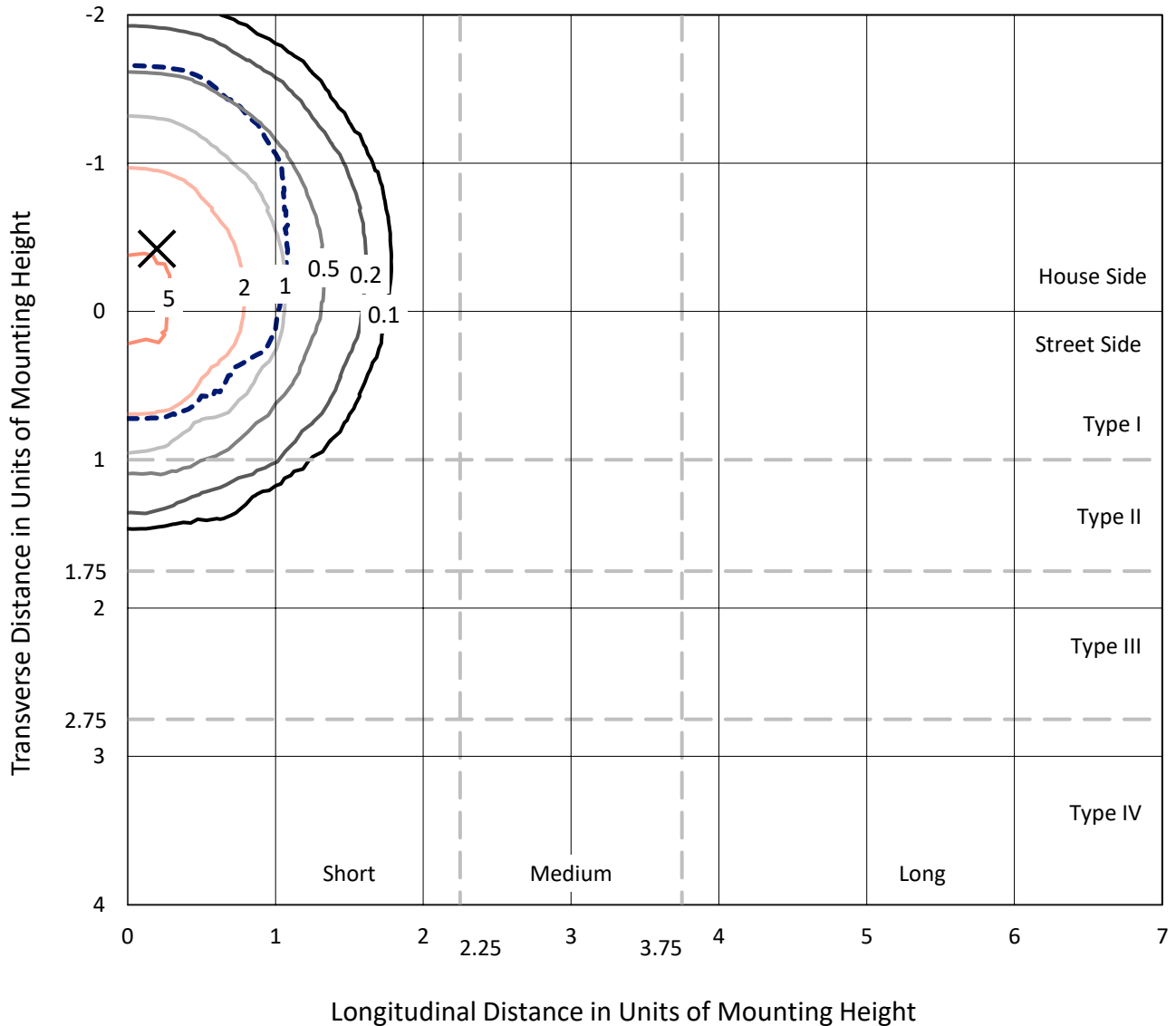
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

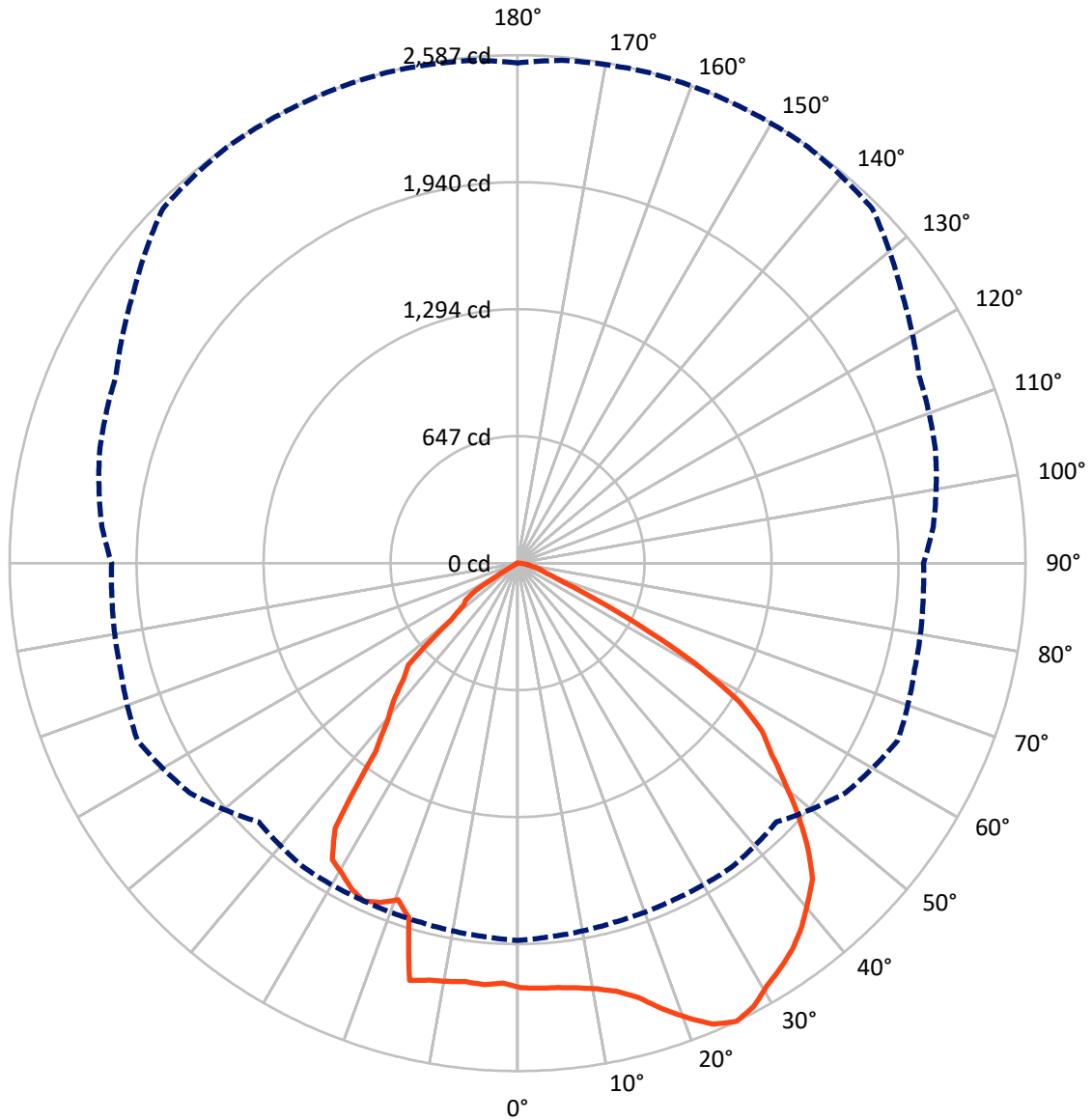
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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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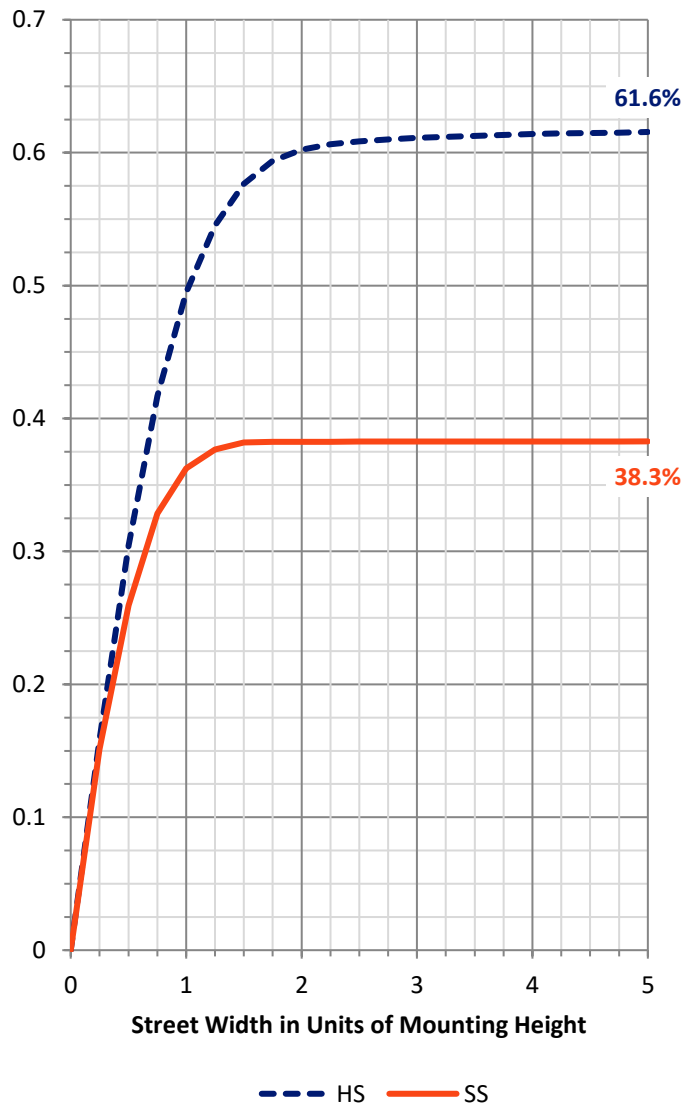
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3103.1	0.0	3103.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	1909.1	0.0	1909.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	5012.2	0.0	5012.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.5	4.1
10°-20°	633.5	12.6
20°-30°	1001.6	20.0
30°-40°	1131.4	22.6
40°-50°	1059.5	21.1
50°-60°	730.5	14.6
60°-70°	196.3	3.9
70°-80°	40.9	0.8
80°-90°	11.1	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°	5012.2	100.0
0°-180°	5012.2	100.0



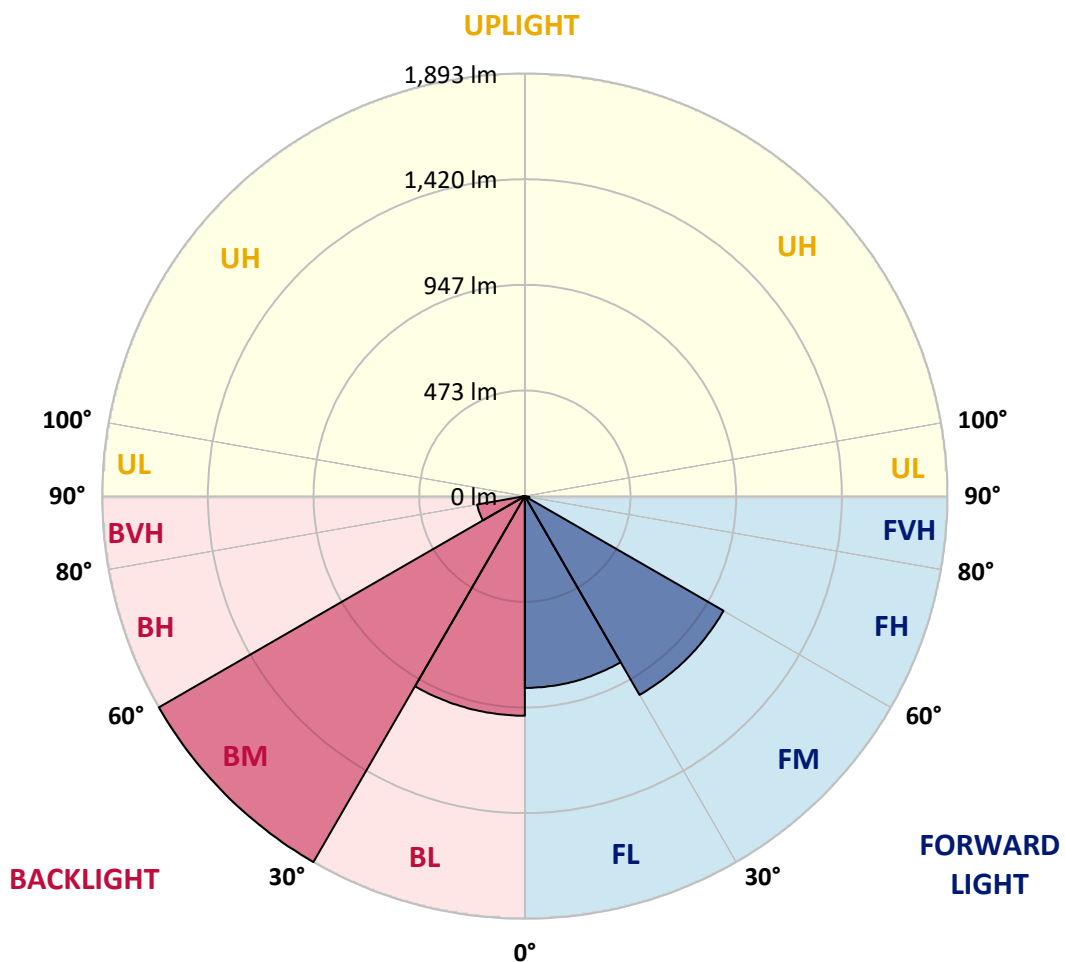
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.9	17.1			
FM (30°-60°)	1028.1	20.5			
FH (60°-80°)	20.6	0.4			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	983.7	19.6	B2/1000		
BM (30°-60°)	1893.3	37.8	B2/2500		
BH (60°-80°)	216.6	4.3	B1/500		G1/500
BVH (80°-90°)	9.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7
2.5°	2172.2	2158.2	2145.0	2140.6	2159.0	2178.9	2166.4	2167.1	2162.7	2170.8
5°	2188.4	2169.3	2160.5	2153.8	2156.8	2177.4	2159.7	2166.4	2159.0	2168.6
7.5°	2182.6	2169.3	2160.5	2147.9	2157.5	2181.8	2164.9	2165.6	2161.9	2170.8
10°	2178.9	2169.3	2158.2	2159.7	2170.8	2191.4	2178.1	2185.5	2180.3	2185.5
12.5°	2187.7	2177.4	2171.5	2171.5	2181.1	2204.7	2198.0	2204.7	2202.4	2206.9
15°	2104.5	2114.1	2170.0	2195.1	2214.2	2237.8	2234.9	2241.5	2243.0	2249.6
17.5°	1775.2	1765.6	1761.2	1890.1	2232.6	2305.6	2303.4	2302.6	2295.3	2290.1
20°	1818.7	1815.0	1809.8	1819.4	1857.7	2340.9	2355.7	2265.1	2238.5	2236.3
22.5°	1887.9	1882.0	1862.9	1863.6	1875.4	2035.2	2282.7	2200.2	2191.4	2186.2
25°	1921.8	1910.0	1894.5	1890.1	1893.8	1864.3	2038.9	2136.9	2093.4	2073.5
27.5°	1862.1	1862.9	1850.3	1862.1	1848.1	1715.5	1641.2	2013.1	2011.7	2002.8
30°	1817.2	1815.0	1800.3	1815.0	1718.5	1570.4	1538.8	1877.6	1862.1	1850.3
32.5°	1679.5	1680.9	1723.7	1781.1	1622.7	1505.6	1409.9	1677.2	1823.8	1817.2
35°	1201.4	1204.3	1356.1	1639.7	1477.6	1376.7	1369.3	1449.6	1763.4	1766.4
37.5°	1156.5	1156.5	1152.8	1199.2	1363.5	1324.4	1339.1	1331.0	1615.4	1622.7
40°	1124.1	1117.4	1112.3	1039.3	948.0	1287.6	1297.9	1261.1	1527.0	1528.5
42.5°	1085.0	1077.7	1079.1	944.3	848.6	1196.2	1167.5	1118.2	1379.7	1381.1
45°	1013.6	1026.1	1034.9	826.5	819.1	854.5	1076.9	1046.0	1280.2	1307.5
47.5°	515.6	526.7	808.1	760.2	777.1	759.4	909.7	910.4	1065.1	1155.7
50°	467.7	464.8	465.5	443.4	717.5	614.3	657.8	834.6	853.0	982.6
52.5°	436.1	435.3	390.4	346.9	450.8	540.7	477.3	604.0	634.2	832.4
55°	322.6	346.2	307.9	326.3	282.1	433.1	430.9	545.1	555.4	667.4
57.5°	2.9	3.7	8.8	248.2	195.2	216.6	297.6	372.0	390.4	520.0
60°	0.7	1.5	3.7	7.4	126.7	133.3	198.9	215.1	242.3	310.1
62.5°	0.0	0.0	1.5	3.7	6.6	54.5	63.3	69.2	106.8	158.4
65°	0.0	0.0	0.7	2.2	3.7	8.8	15.5	32.4	46.4	57.5
67.5°	0.0	0.0	0.7	1.5	2.9	4.4	8.8	12.5	19.9	33.9
70°	0.0	0.0	0.7	1.5	2.2	3.7	5.9	8.8	11.8	16.9
72.5°	0.0	0.0	0.7	1.5	1.5	4.4	4.4	6.6	8.8	11.0
75°	0.0	0.0	0.7	0.7	1.5	2.9	4.4	5.2	5.9	8.8
77.5°	0.0	0.0	0.7	1.5	2.2	2.9	3.7	5.9	5.2	5.2
80°	0.0	0.0	0.7	2.2	2.2	3.7	4.4	5.9	3.7	3.7
82.5°	0.0	0.0	0.7	2.9	2.2	7.4	7.4	8.1	2.9	2.9
85°	0.0	0.0	2.2	1.5	4.4	7.4	6.6	4.4	3.7	2.2
87.5°	0.0	0.0	0.7	0.7	1.5	2.2	5.2	4.4	1.5	1.5
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°
2162.7	0°	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7	2162.7
2149.4	2.5°	2178.9	2169.3	2189.2	2187.0	2177.4	2173.0	2167.8	2163.4	2131.0
2150.9	5°	2179.6	2164.9	2189.2	2184.8	2183.3	2175.9	2171.5	2178.1	2148.7
2156.8	7.5°	2179.6	2164.9	2191.4	2192.9	2190.7	2184.8	2184.0	2188.4	2164.1
2167.1	10°	2194.3	2188.4	2210.5	2212.8	2209.8	2208.3	2204.7	2201.7	2175.9
2202.4	12.5°	2225.3	2213.5	2238.5	2245.2	2243.0	2246.6	2237.8	2242.2	2215.7
2238.5	15°	2262.8	2263.6	2282.7	2297.5	2296.0	2307.8	2294.5	2306.3	2287.2
2279.8	17.5°	2320.3	2328.4	2355.7	2377.8	2385.9	2394.7	2385.9	2389.5	2362.3
2234.1	20°	2259.9	2290.1	2421.2	2461.7	2478.7	2486.8	2472.0	2476.5	2449.2
2178.1	22.5°	2205.4	2244.4	2360.8	2487.5	2539.8	2556.0	2550.9	2550.1	2539.8
2067.6	25°	2125.1	2203.9	2256.2	2390.3	2554.5	2584.0	2587.0	2586.2	2570.7
1999.9	27.5°	2026.4	2044.1	2179.6	2261.4	2451.4	2563.4	2559.0	2537.6	2517.0
1859.2	30°	1900.4	1980.7	2041.9	2172.2	2318.1	2500.0	2500.0	2483.8	2462.5
1809.1	32.5°	1836.4	1940.2	1996.9	2044.1	2168.6	2429.3	2458.8	2441.8	2424.9
1770.1	35°	1802.5	1817.9	1950.5	1993.2	2098.6	2293.0	2412.4	2395.4	2382.9
1666.2	37.5°	1728.1	1764.2	1826.0	1940.2	1972.6	2181.8	2350.5	2341.7	2326.9
1531.4	40°	1562.3	1658.8	1753.9	1862.1	1896.0	2038.9	2275.4	2279.1	2259.2
1387.8	42.5°	1464.4	1529.9	1678.7	1751.6	1843.0	1946.8	2202.4	2208.3	2194.3
1314.8	45°	1349.5	1422.4	1527.0	1659.6	1784.1	1820.1	2073.5	2135.4	2123.6
1169.7	47.5°	1244.1	1303.1	1431.2	1565.3	1703.0	1697.9	1925.5	2041.9	2025.7
1058.5	50°	1094.6	1197.7	1258.1	1381.1	1586.6	1600.6	1767.8	1932.1	1918.9
899.4	52.5°	923.0	1052.6	1168.3	1281.0	1468.8	1501.9	1621.3	1820.1	1811.3
687.3	55°	806.6	900.9	1031.2	1121.8	1325.9	1414.3	1511.5	1713.3	1708.9
565.0	57.5°	573.8	755.8	863.3	990.0	1097.5	1257.4	1329.6	1496.0	1454.8
313.1	60°	388.9	474.4	605.5	741.8	813.9	973.8	1040.8	1174.1	1163.1
187.1	62.5°	205.5	284.3	377.9	446.4	498.7	654.1	682.1	825.7	822.0
75.1	65°	90.6	120.1	204.8	240.1	293.9	366.1	390.4	442.0	429.4
36.8	67.5°	47.1	71.5	115.6	142.2	179.0	206.2	226.1	242.3	252.7
24.3	70°	28.7	52.3	71.5	98.7	123.0	145.1	160.6	182.7	195.9
12.5	72.5°	21.4	33.1	49.4	75.9	89.1	114.9	130.4	146.6	158.4
10.3	75°	11.8	22.1	39.8	59.7	71.5	93.5	107.5	118.6	122.3
5.9	77.5°	7.4	16.9	33.1	46.4	56.0	75.9	72.2	82.5	91.3
4.4	80°	5.2	12.5	25.8	38.3	39.0	48.6	57.5	66.3	72.2
2.9	82.5°	3.7	10.3	19.2	29.5	25.8	37.6	44.9	51.6	37.6
2.2	85°	2.9	7.4	9.6	17.7	14.7	26.5	22.8	22.1	14.7
1.5	87.5°	2.2	3.7	6.6	8.1	5.9	5.9	7.4	8.8	7.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2162.7
2108.9
2123.6
2136.1
2154.6
2192.1
2255.5
2338.7
2430.1
2506.7
2547.2
2500.8
2454.4
2410.9
2365.2
2312.2
2254.7
2192.9
2125.1
2037.4
1921.1
1817.2
1714.1
1450.4
1163.8
822.8
424.3
252.7
196.7
160.6
120.1
92.8
72.9
27.3
14.7
7.4
0.0

(END OF REPORT)