

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: P636940

Luminaire Tested: **IFLD-S-SA2A-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636940
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4916.9 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

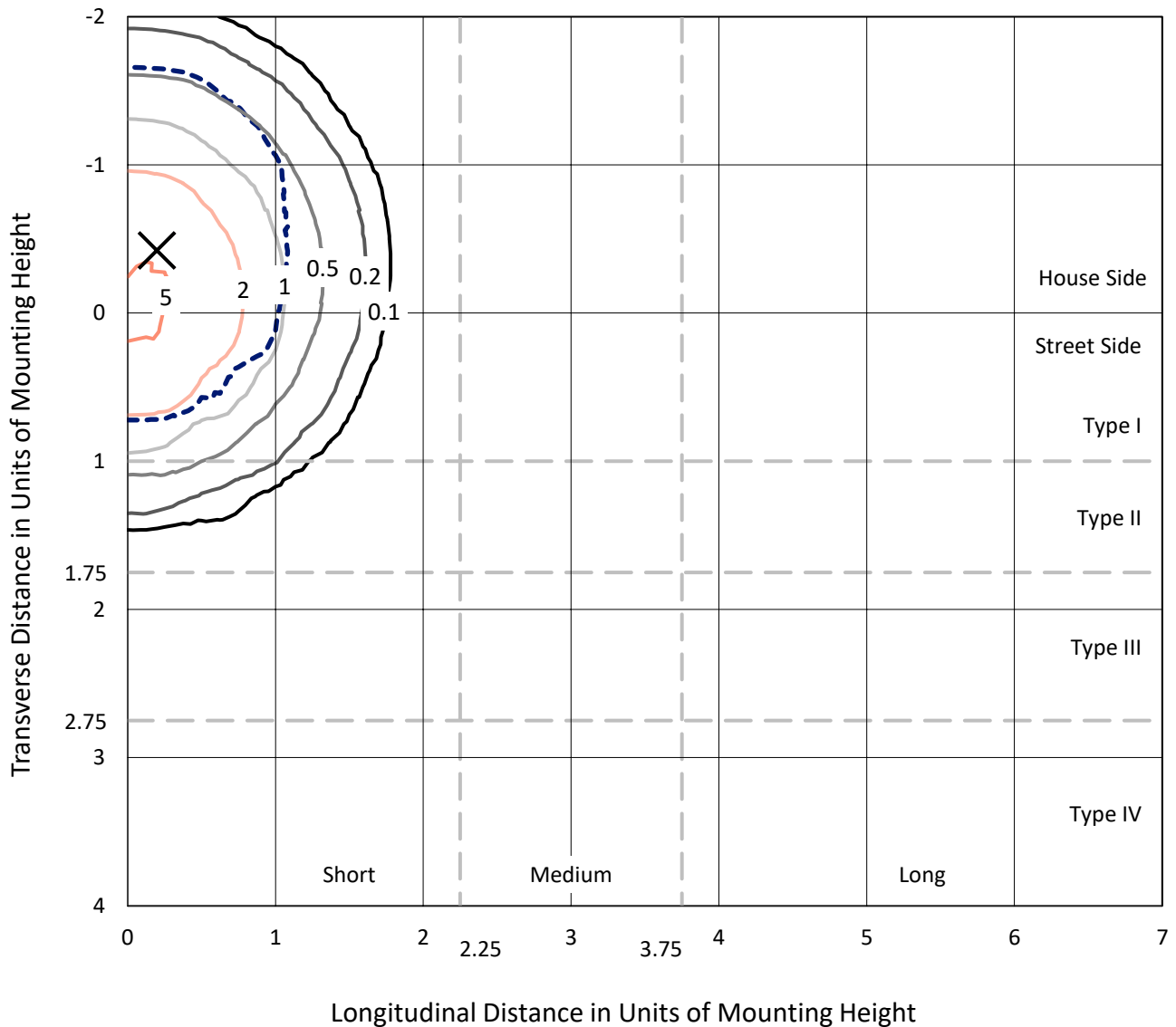
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

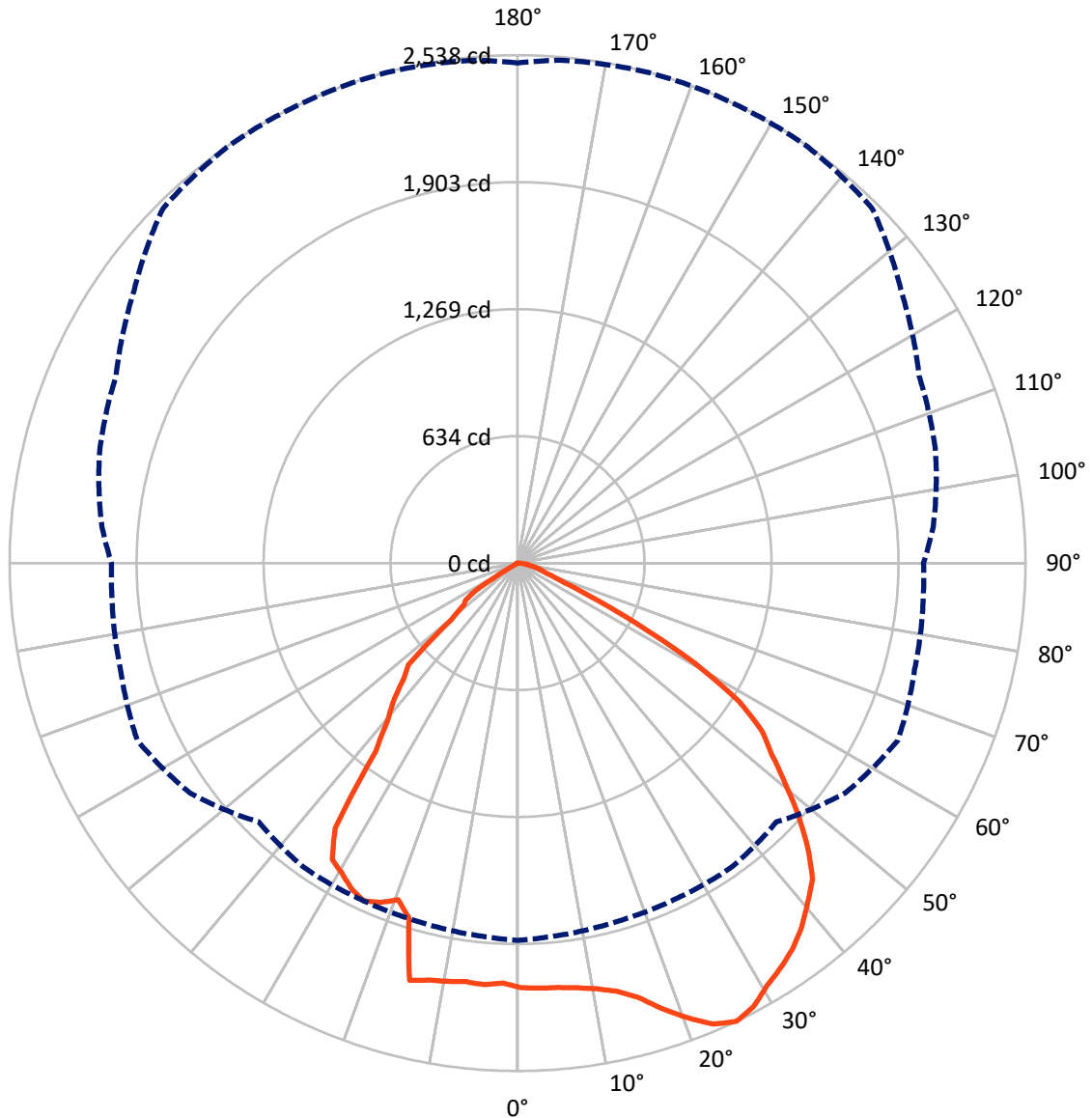
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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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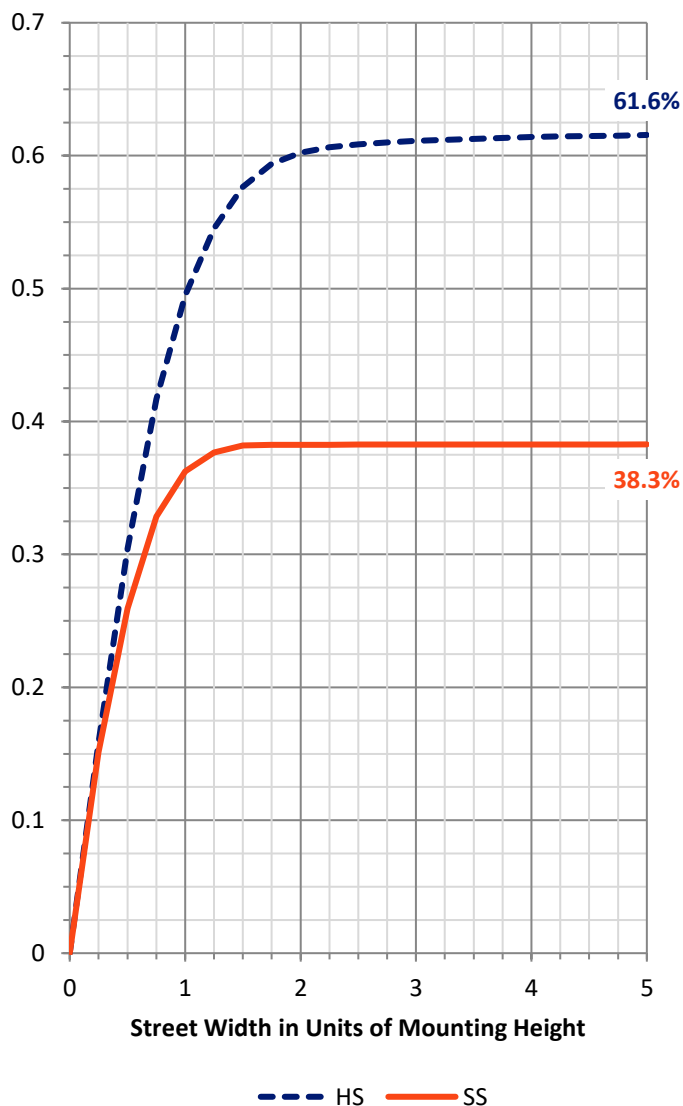
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3044.1	0.0	3044.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	1872.8	0.0	1872.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	4916.9	0.0	4916.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	4.1
10°-20°	621.5	12.6
20°-30°	982.5	20.0
30°-40°	1109.9	22.6
40°-50°	1039.4	21.1
50°-60°	716.6	14.6
60°-70°	192.5	3.9
70°-80°	40.1	0.8
80°-90°	10.9	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°	4916.9	100.0
0°-180°	4916.9	100.0



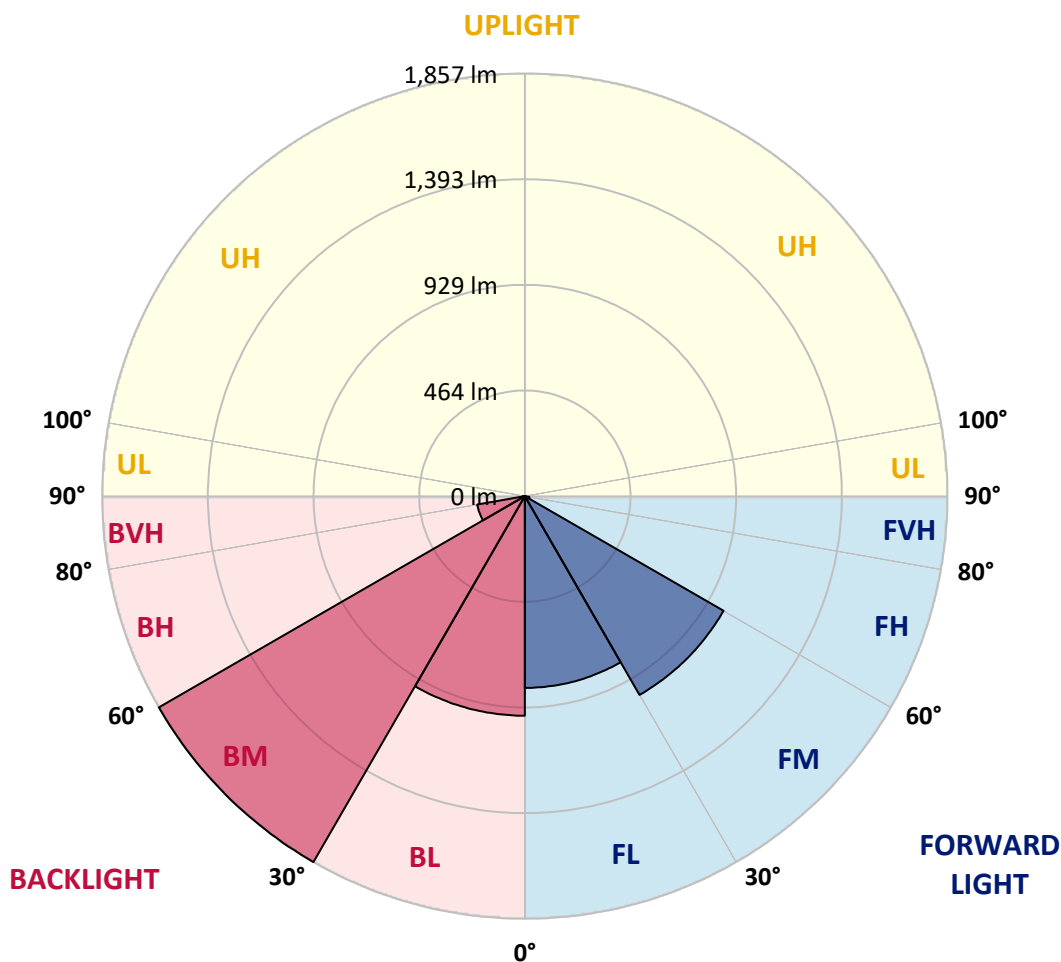
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.6	17.1			
FM (30°-60°)	1008.6	20.5			
FH (60°-80°)	20.2	0.4			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	965.0	19.6	B2/1000		
BM (30°-60°)	1857.3	37.8	B2/2500		
BH (60°-80°)	212.4	4.3	B1/500		G1/500
BVH (80°-90°)	9.4	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°	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6
2.5°	2131.0	2117.2	2104.2	2099.9	2118.0	2137.5	2125.2	2125.9	2121.6	2129.5
5°	2146.9	2128.1	2119.4	2112.9	2115.8	2136.0	2118.7	2125.2	2118.0	2127.3
7.5°	2141.1	2128.1	2119.4	2107.1	2116.5	2140.4	2123.7	2124.5	2120.8	2129.5
10°	2137.5	2128.1	2117.2	2118.7	2129.5	2149.7	2136.7	2144.0	2138.9	2144.0
12.5°	2146.1	2136.0	2130.2	2130.2	2139.6	2162.8	2156.2	2162.8	2160.6	2164.9
15°	2064.5	2073.9	2128.8	2153.4	2172.1	2195.3	2192.4	2198.9	2200.3	2206.8
17.5°	1741.5	1732.1	1727.7	1854.2	2190.2	2261.7	2259.6	2258.9	2251.6	2246.6
20°	1784.1	1780.5	1775.4	1784.8	1822.4	2296.4	2310.9	2222.0	2196.0	2193.8
22.5°	1852.0	1846.3	1827.5	1828.2	1839.7	1996.6	2239.3	2158.4	2149.7	2144.7
25°	1885.3	1873.7	1858.5	1854.2	1857.8	1828.9	2000.2	2096.3	2053.6	2034.1
27.5°	1826.7	1827.5	1815.2	1826.7	1813.0	1682.9	1610.0	1974.9	1973.4	1964.8
30°	1782.7	1780.5	1766.0	1780.5	1685.8	1540.6	1509.5	1841.9	1826.7	1815.2
32.5°	1647.5	1649.0	1690.9	1747.3	1591.9	1477.0	1383.1	1645.4	1789.2	1782.7
35°	1178.6	1181.5	1330.3	1608.5	1449.5	1350.5	1343.3	1422.1	1729.9	1732.8
37.5°	1134.5	1134.5	1130.9	1176.4	1337.5	1299.2	1313.7	1305.7	1584.7	1591.9
40°	1102.7	1096.2	1091.1	1019.6	930.0	1263.1	1273.2	1237.1	1498.0	1499.4
42.5°	1064.4	1057.2	1058.6	926.4	832.4	1173.5	1145.3	1096.9	1353.4	1354.9
45°	994.3	1006.6	1015.3	810.8	803.5	838.2	1056.4	1026.1	1255.9	1282.6
47.5°	505.8	516.7	792.7	745.7	762.3	745.0	892.4	893.1	1044.9	1133.8
50°	458.9	456.0	456.7	435.0	703.8	602.7	645.3	818.7	836.8	964.0
52.5°	427.8	427.1	383.0	340.3	442.2	530.4	468.2	592.5	622.2	816.5
55°	316.5	339.6	302.0	320.1	276.8	424.9	422.7	534.7	544.8	654.7
57.5°	2.9	3.6	8.7	243.5	191.5	212.4	291.9	364.9	383.0	510.2
60°	0.7	1.4	3.6	7.2	124.3	130.8	195.1	211.0	237.7	304.2
62.5°	0.0	0.0	1.4	3.6	6.5	53.5	62.1	67.9	104.8	155.4
65°	0.0	0.0	0.7	2.2	3.6	8.7	15.2	31.8	45.5	56.4
67.5°	0.0	0.0	0.7	1.4	2.9	4.3	8.7	12.3	19.5	33.2
70°	0.0	0.0	0.7	1.4	2.2	3.6	5.8	8.7	11.6	16.6
72.5°	0.0	0.0	0.7	1.4	1.4	4.3	4.3	6.5	8.7	10.8
75°	0.0	0.0	0.7	0.7	1.4	2.9	4.3	5.1	5.8	8.7
77.5°	0.0	0.0	0.7	1.4	2.2	2.9	3.6	5.8	5.1	5.1
80°	0.0	0.0	0.7	2.2	2.2	3.6	4.3	5.8	3.6	3.6
82.5°	0.0	0.0	0.7	2.9	2.2	7.2	7.2	7.9	2.9	2.9
85°	0.0	0.0	2.2	1.4	4.3	7.2	6.5	4.3	3.6	2.2
87.5°	0.0	0.0	0.7	0.7	1.4	2.2	5.1	4.3	1.4	1.4
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°
2121.6	0°	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6
2108.6	2.5°	2137.5	2128.1	2147.6	2145.4	2136.0	2131.7	2126.6	2122.3	2090.5
2110.0	5°	2138.2	2123.7	2147.6	2143.2	2141.8	2134.6	2130.2	2136.7	2107.8
2115.8	7.5°	2138.2	2123.7	2149.7	2151.2	2149.0	2143.2	2142.5	2146.9	2123.0
2125.9	10°	2152.6	2146.9	2168.5	2170.7	2167.8	2166.4	2162.8	2159.9	2134.6
2160.6	12.5°	2183.0	2171.4	2196.0	2202.5	2200.3	2203.9	2195.3	2199.6	2173.6
2196.0	15°	2219.8	2220.6	2239.3	2253.8	2252.4	2263.9	2250.9	2262.5	2243.7
2236.5	17.5°	2276.2	2284.1	2310.9	2332.6	2340.5	2349.2	2340.5	2344.1	2317.4
2191.7	20°	2216.9	2246.6	2375.2	2414.9	2431.6	2439.5	2425.1	2429.4	2402.7
2136.7	22.5°	2163.5	2201.8	2315.9	2440.2	2491.5	2507.4	2502.4	2501.7	2491.5
2028.3	25°	2084.7	2162.0	2213.3	2344.8	2506.0	2534.9	2537.8	2537.1	2521.9
1961.9	27.5°	1987.9	2005.2	2138.2	2218.4	2404.8	2514.7	2510.3	2489.4	2469.1
1823.9	30°	1864.3	1943.1	2003.1	2131.0	2274.0	2452.5	2452.5	2436.6	2415.7
1774.7	32.5°	1801.5	1903.3	1959.0	2005.2	2127.3	2383.1	2412.0	2395.4	2378.8
1736.4	35°	1768.2	1783.4	1913.5	1955.4	2058.7	2249.5	2366.5	2349.9	2337.6
1634.5	37.5°	1695.2	1730.6	1791.3	1903.3	1935.1	2140.4	2305.8	2297.2	2282.7
1502.3	40°	1532.6	1627.3	1720.5	1826.7	1860.0	2000.2	2232.1	2235.7	2216.2
1361.4	42.5°	1436.5	1500.8	1646.8	1718.4	1808.0	1909.8	2160.6	2166.4	2152.6
1289.8	45°	1323.8	1395.3	1498.0	1628.0	1750.1	1785.6	2034.1	2094.8	2083.3
1147.5	47.5°	1220.5	1278.3	1404.0	1535.5	1670.7	1665.6	1888.9	2003.1	1987.2
1038.4	50°	1073.8	1175.0	1234.2	1354.9	1556.5	1570.2	1734.2	1895.4	1882.4
882.3	52.5°	905.4	1032.6	1146.0	1256.6	1440.9	1473.4	1590.4	1785.6	1776.9
674.2	55°	791.3	883.7	1011.6	1100.5	1300.7	1387.4	1482.8	1680.8	1676.4
554.2	57.5°	562.9	741.4	846.9	971.2	1076.7	1233.5	1304.3	1467.6	1427.1
307.1	60°	381.5	465.4	594.0	727.7	798.5	955.3	1021.0	1151.8	1141.0
183.5	62.5°	201.6	278.9	370.7	437.9	489.2	641.7	669.1	810.0	806.4
73.7	65°	88.9	117.8	200.9	235.6	288.3	359.1	383.0	433.6	421.3
36.1	67.5°	46.2	70.1	113.4	139.5	175.6	202.3	221.8	237.7	247.9
23.8	70°	28.2	51.3	70.1	96.8	120.7	142.4	157.5	179.2	192.2
12.3	72.5°	21.0	32.5	48.4	74.4	87.4	112.7	127.9	143.8	155.4
10.1	75°	11.6	21.7	39.0	58.5	70.1	91.8	105.5	116.3	120.0
5.8	77.5°	7.2	16.6	32.5	45.5	54.9	74.4	70.8	80.9	89.6
4.3	80°	5.1	12.3	25.3	37.6	38.3	47.7	56.4	65.0	70.8
2.9	82.5°	3.6	10.1	18.8	28.9	25.3	36.9	44.1	50.6	36.9
2.2	85°	2.9	7.2	9.4	17.3	14.5	26.0	22.4	21.7	14.5
1.4	87.5°	2.2	3.6	6.5	7.9	5.8	5.8	7.2	8.7	7.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2121.6
2068.8
2083.3
2095.5
2113.6
2150.5
2212.6
2294.3
2383.9
2459.0
2498.8
2453.2
2407.7
2365.1
2320.3
2268.3
2211.9
2151.2
2084.7
1998.7
1884.5
1782.7
1681.5
1422.8
1141.7
807.1
416.2
247.9
192.9
157.5
117.8
91.0
71.5
26.7
14.5
7.2
0.0

(END OF REPORT)