

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: P481232

Luminaire Tested: **IFLD-S-SA2A-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481232
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

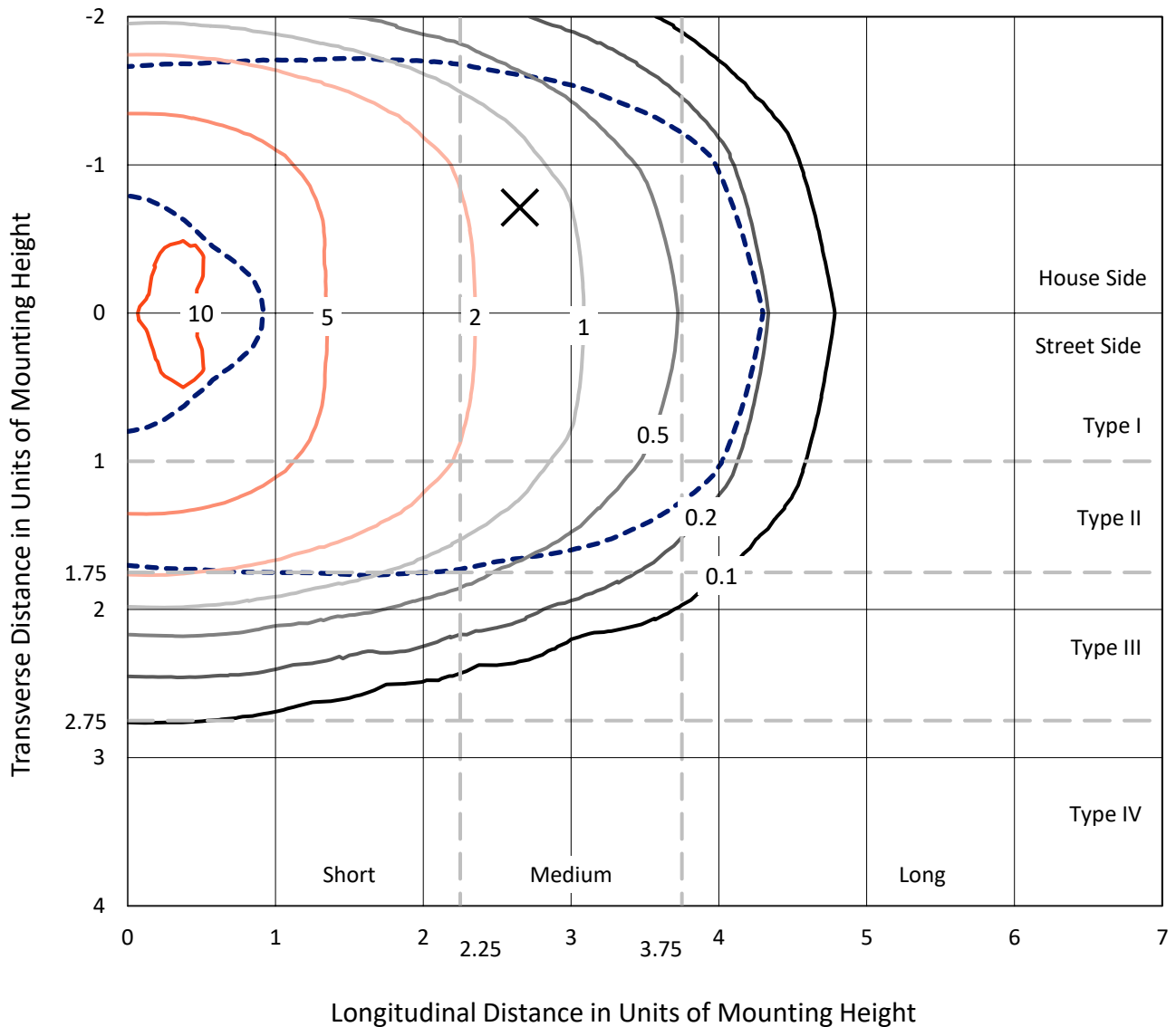
Lumens per Lamp: N/A
Luminaire Lumens: 9379.2 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

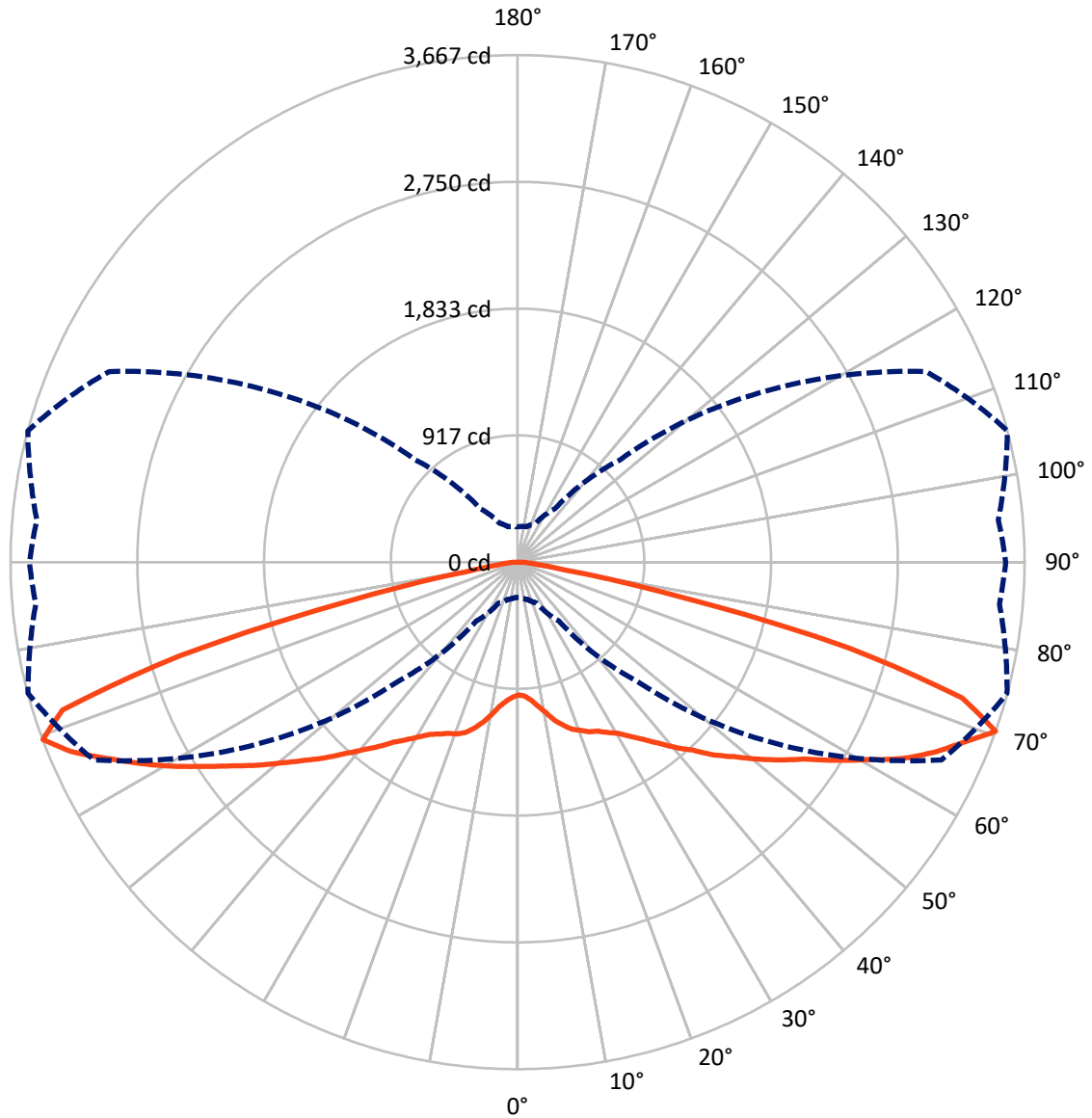
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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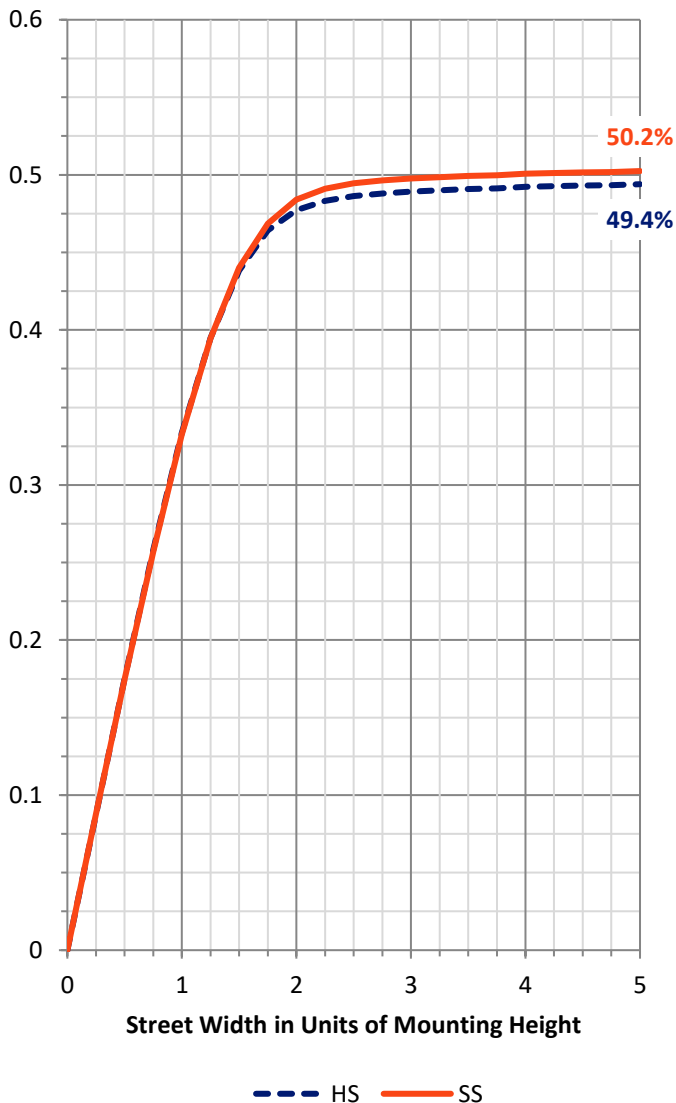
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4656.2	0.0	4656.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	4722.9	0.0	4722.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	9379.2	0.0	9379.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.0
10°-20°	325.5	3.5
20°-30°	630.3	6.7
30°-40°	1066.0	11.4
40°-50°	1700.6	18.1
50°-60°	2327.8	24.8
60°-70°	2194.1	23.4
70°-80°	966.6	10.3
80°-90°	72.7	0.8
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°	9379.2	100.0
0°-180°	9379.2	100.0



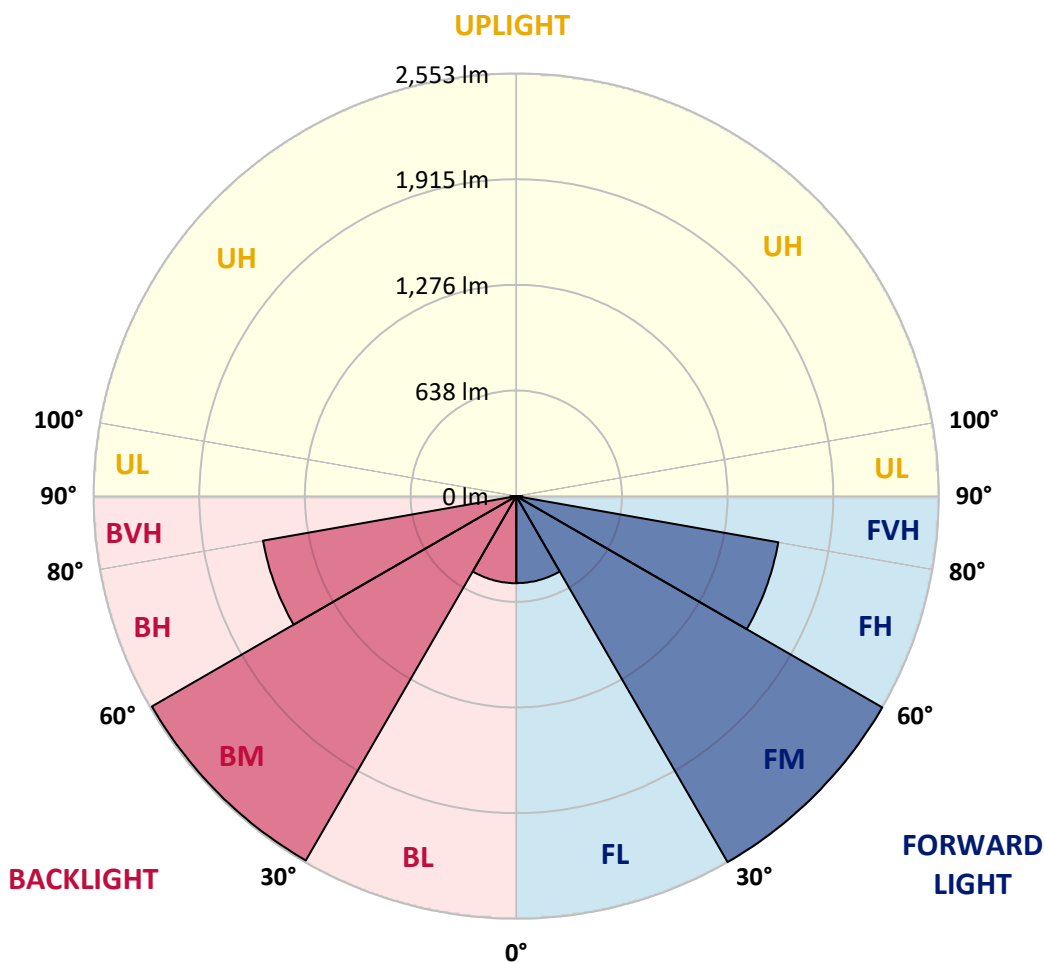
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.4	5.6			
FM (30°-60°)	2552.9	27.2			
FH (60°-80°)	1607.5	17.1			G1/1800
FVH (80°-90°)	37.1	0.4			G1/100
BL (0°-30°)	526.0	5.6	B2/1000		
BM (30°-60°)	2541.5	27.1	B3/5000		
BH (60°-80°)	1553.2	16.6	B3/2500		G3/2500
BVH (80°-90°)	35.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4
2.5°	954.4	954.4	953.3	958.4	963.4	965.5	969.5	970.5	976.6	971.5	981.6
5°	951.3	950.3	958.4	970.5	970.5	983.7	991.8	1002.9	1005.9	1012.0	1014.0
7.5°	972.5	970.5	966.5	979.6	990.7	1011.0	1022.1	1041.3	1048.4	1056.5	1065.6
10°	985.7	985.7	981.6	1004.9	1015.0	1042.3	1066.6	1085.8	1113.1	1122.2	1123.2
12.5°	987.7	990.7	1002.9	1033.2	1061.5	1096.9	1115.1	1151.5	1178.8	1196.0	1202.0
15°	1018.0	1012.0	1025.1	1066.6	1108.0	1139.4	1171.7	1198.0	1237.4	1259.7	1273.8
17.5°	1045.3	1039.3	1063.5	1113.1	1155.5	1204.1	1232.4	1260.7	1289.0	1309.2	1310.2
20°	1088.8	1093.9	1115.1	1168.7	1224.3	1266.7	1299.1	1304.1	1318.3	1347.6	1342.6
22.5°	1142.4	1138.3	1182.8	1241.5	1302.1	1337.5	1355.7	1342.6	1335.5	1366.8	1373.9
25°	1196.0	1208.1	1248.5	1303.1	1375.9	1423.4	1428.5	1392.1	1365.8	1376.9	1373.9
27.5°	1277.9	1279.9	1322.3	1387.0	1460.8	1502.3	1499.3	1447.7	1397.2	1398.2	1400.2
30°	1383.0	1372.9	1419.4	1478.0	1550.8	1588.2	1593.3	1519.5	1451.7	1431.5	1436.6
32.5°	1484.1	1496.2	1536.7	1603.4	1657.0	1678.2	1667.1	1601.4	1513.4	1486.1	1489.2
35°	1613.5	1611.5	1667.1	1723.7	1764.1	1768.2	1759.1	1663.0	1580.1	1544.8	1530.6
37.5°	1752.0	1770.2	1806.6	1853.1	1895.6	1897.6	1848.0	1771.2	1669.1	1610.5	1627.7
40°	1906.7	1926.9	1953.2	2020.9	2052.3	2019.9	1969.4	1865.2	1759.1	1707.5	1715.6
42.5°	2043.2	2052.3	2105.8	2185.7	2200.9	2186.7	2111.9	1985.5	1862.2	1805.6	1809.6
45°	2168.5	2180.7	2250.4	2322.2	2357.6	2333.3	2246.4	2126.1	1982.5	1934.0	1914.8
47.5°	2283.8	2308.0	2375.8	2449.6	2504.2	2506.2	2399.0	2253.4	2101.8	2038.1	2037.1
50°	2361.6	2397.0	2463.7	2547.6	2627.5	2658.8	2551.7	2395.0	2232.2	2164.5	2157.4
52.5°	2404.1	2440.5	2507.2	2637.6	2726.6	2775.1	2724.6	2527.4	2384.9	2314.1	2303.0
55°	2352.5	2376.8	2486.0	2668.9	2806.4	2886.3	2852.9	2710.4	2536.5	2478.9	2489.0
57.5°	2133.1	2183.7	2318.1	2546.6	2804.4	3000.5	2997.5	2883.3	2711.4	2656.8	2658.8
60°	1756.0	1798.5	1964.3	2283.8	2691.2	3047.0	3154.2	3051.1	2907.5	2843.8	2841.8
62.5°	1239.4	1293.0	1485.1	1833.9	2357.6	2982.3	3334.2	3262.4	3099.6	3053.1	3070.3
65°	693.5	725.9	903.8	1219.2	1796.5	2626.5	3366.5	3481.8	3294.7	3224.0	3227.0
67.5°	371.0	383.2	466.1	639.9	1098.9	2025.0	3040.0	3608.1	3506.0	3383.7	3364.5
70°	254.8	258.8	280.0	327.6	519.6	1211.1	2292.9	3382.7	3664.7	3497.9	3530.3
72.5°	215.3	213.3	218.4	223.4	271.9	541.9	1345.6	2603.2	3459.5	3396.8	3384.7
75°	187.0	186.0	188.0	183.0	189.1	238.6	595.5	1622.6	2532.5	2826.7	2872.2
77.5°	154.7	155.7	156.7	151.6	149.6	157.7	239.6	712.7	1246.5	1375.9	1484.1
80°	117.3	119.3	127.4	122.3	114.2	115.2	141.5	238.6	357.9	324.5	334.6
82.5°	79.9	80.9	98.1	92.0	85.9	77.8	91.0	123.3	139.5	106.2	93.0
85°	56.6	55.6	63.7	58.6	54.6	39.4	54.6	69.8	83.9	52.6	47.5
87.5°	13.1	13.1	26.3	21.2	20.2	16.2	21.2	27.3	36.4	23.3	21.2
90°	0.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4	960.4
2.5°	978.6	969.5	969.5	967.5	959.4	957.4	950.3	952.3	947.3	942.2
5°	1013.0	1000.9	1000.9	983.7	967.5	965.5	957.4	957.4	949.3	951.3
7.5°	1060.5	1049.4	1031.2	1016.0	993.8	984.7	969.5	967.5	965.5	961.4
10°	1117.1	1103.0	1084.8	1053.4	1035.2	1018.0	1002.9	981.6	976.6	977.6
12.5°	1193.9	1171.7	1132.3	1105.0	1081.7	1059.5	1037.2	1005.9	998.8	1001.9
15°	1248.5	1220.2	1180.8	1170.7	1139.4	1112.1	1075.7	1040.3	1028.2	1025.1
17.5°	1293.0	1269.8	1246.5	1231.4	1206.1	1172.7	1122.2	1081.7	1054.4	1051.4
20°	1329.4	1299.1	1294.0	1303.1	1271.8	1249.6	1187.9	1138.3	1102.0	1086.8
22.5°	1351.7	1332.5	1346.6	1354.7	1352.7	1315.3	1251.6	1193.9	1148.5	1134.3
25°	1375.9	1353.7	1404.2	1431.5	1438.6	1376.9	1327.4	1251.6	1207.1	1198.0
27.5°	1388.1	1396.1	1454.8	1512.4	1507.3	1459.8	1393.1	1325.4	1290.0	1273.8
30°	1423.4	1436.6	1525.5	1590.2	1591.3	1544.8	1494.2	1417.4	1377.9	1370.9
32.5°	1487.1	1503.3	1598.3	1667.1	1679.2	1643.8	1593.3	1545.8	1505.3	1489.2
35°	1535.7	1577.1	1684.3	1746.9	1779.3	1758.1	1729.8	1680.2	1637.8	1623.6
37.5°	1605.4	1663.0	1766.2	1851.1	1887.5	1885.4	1864.2	1810.6	1775.3	1763.1
40°	1705.5	1763.1	1857.1	1969.4	2037.1	2034.1	2021.9	1980.5	1927.9	1921.8
42.5°	1811.6	1859.2	1981.5	2109.9	2206.9	2196.8	2164.5	2115.9	2079.6	2071.5
45°	1914.8	1988.6	2101.8	2266.6	2339.4	2364.6	2326.2	2243.3	2201.9	2196.8
47.5°	2044.2	2102.8	2244.3	2391.9	2500.1	2504.2	2438.4	2361.6	2285.8	2302.0
50°	2159.4	2237.3	2380.8	2542.6	2672.0	2625.5	2541.6	2445.5	2390.9	2369.7
52.5°	2282.8	2377.8	2544.6	2709.4	2781.2	2734.7	2598.2	2491.0	2408.1	2399.0
55°	2462.7	2512.2	2730.6	2857.0	2880.2	2782.2	2581.0	2429.3	2322.2	2295.9
57.5°	2645.7	2703.3	2894.4	3003.6	2979.3	2755.9	2469.8	2235.2	2094.7	2057.3
60°	2830.7	2901.5	3062.2	3162.3	3036.9	2574.9	2155.4	1853.1	1689.3	1656.0
62.5°	3036.9	3128.9	3272.5	3307.9	2866.1	2217.0	1710.6	1337.5	1171.7	1116.1
65°	3219.9	3313.9	3490.9	3277.5	2503.1	1653.9	1106.0	764.3	642.0	597.5
67.5°	3370.6	3476.7	3563.7	2900.5	1832.9	968.5	576.2	402.4	356.9	340.7
70°	3489.9	3666.8	3260.4	2132.1	1047.4	472.1	311.4	264.9	258.8	254.8
72.5°	3385.7	3362.5	2434.4	1230.3	459.0	259.8	225.4	218.4	217.4	218.4
75°	2769.0	2469.8	1455.8	534.8	230.5	188.0	187.0	184.0	189.1	189.1
77.5°	1343.6	1174.7	608.6	229.5	151.6	147.6	152.7	152.7	152.7	152.7
80°	311.4	344.7	217.4	139.5	110.2	110.2	121.3	122.3	117.3	115.2
82.5°	106.2	141.5	119.3	88.0	72.8	81.9	92.0	94.0	77.8	78.9
85°	52.6	82.9	64.7	50.5	37.4	50.5	59.6	62.7	53.6	51.6
87.5°	24.3	36.4	24.3	17.2	13.1	18.2	17.2	14.2	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)