

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: P481120

Luminaire Tested: **IFLD-S-SA3A-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481120
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

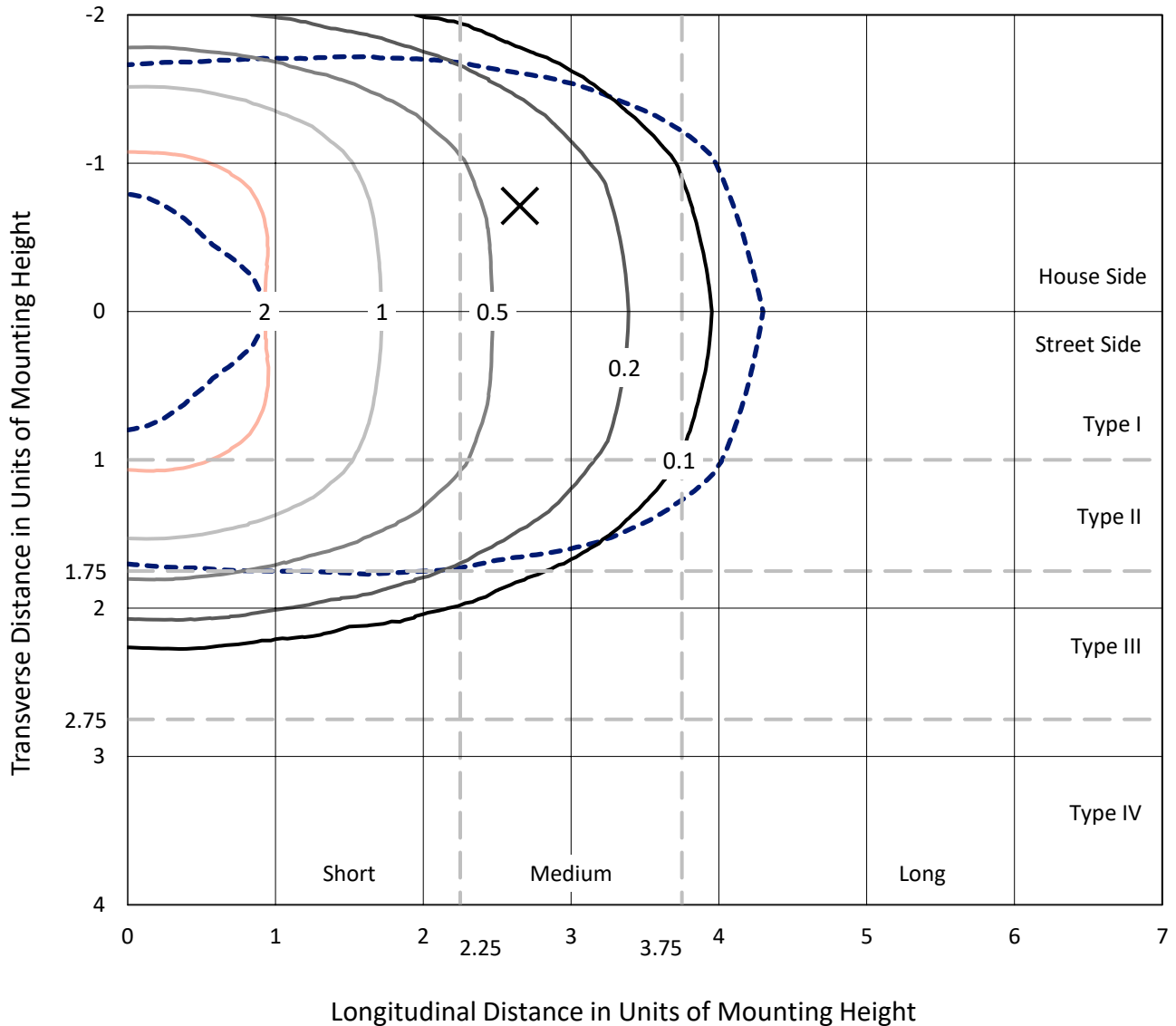
Lumens per Lamp: N/A
Luminaire Lumens: 10438.8 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 94.8
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

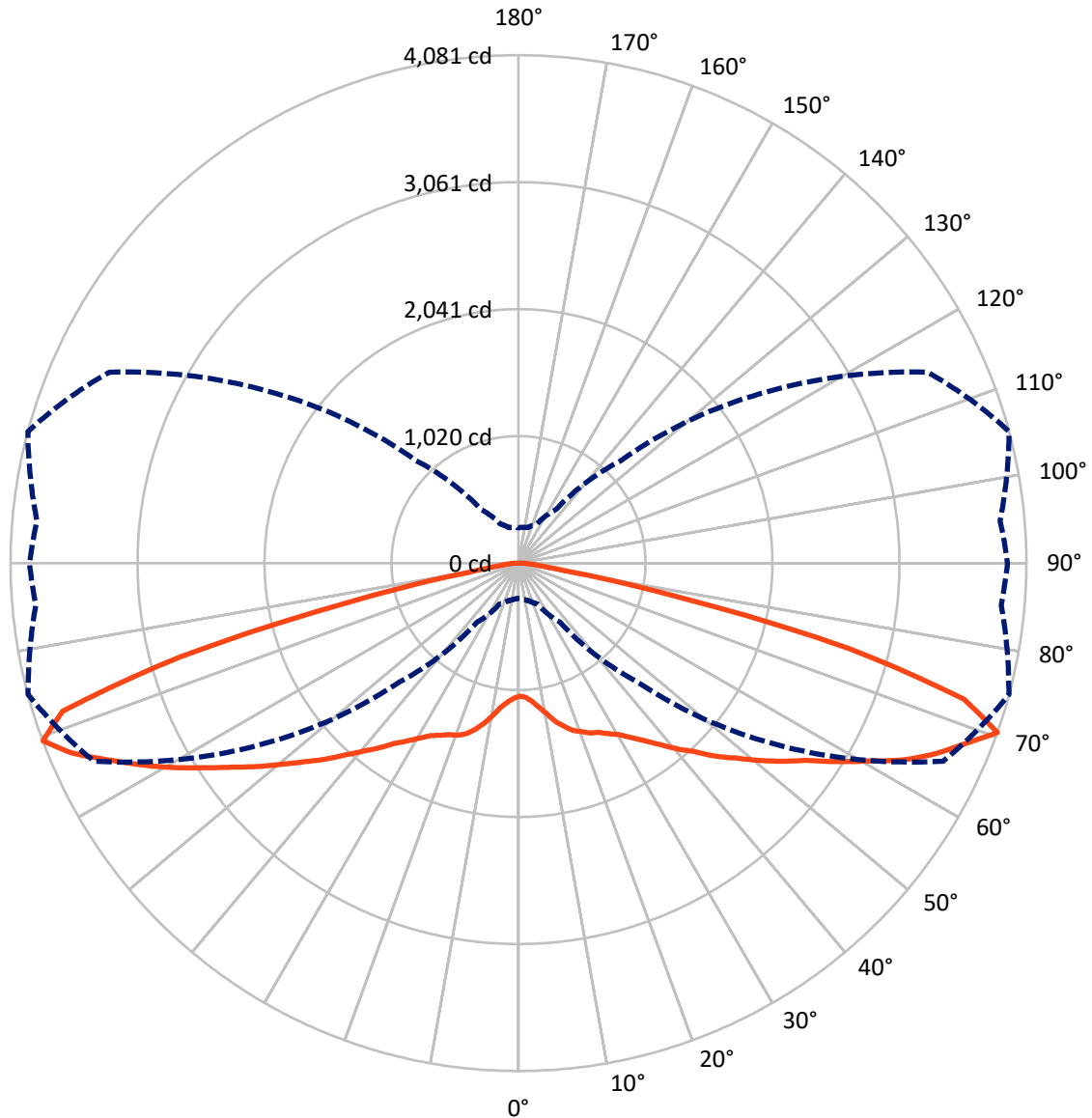
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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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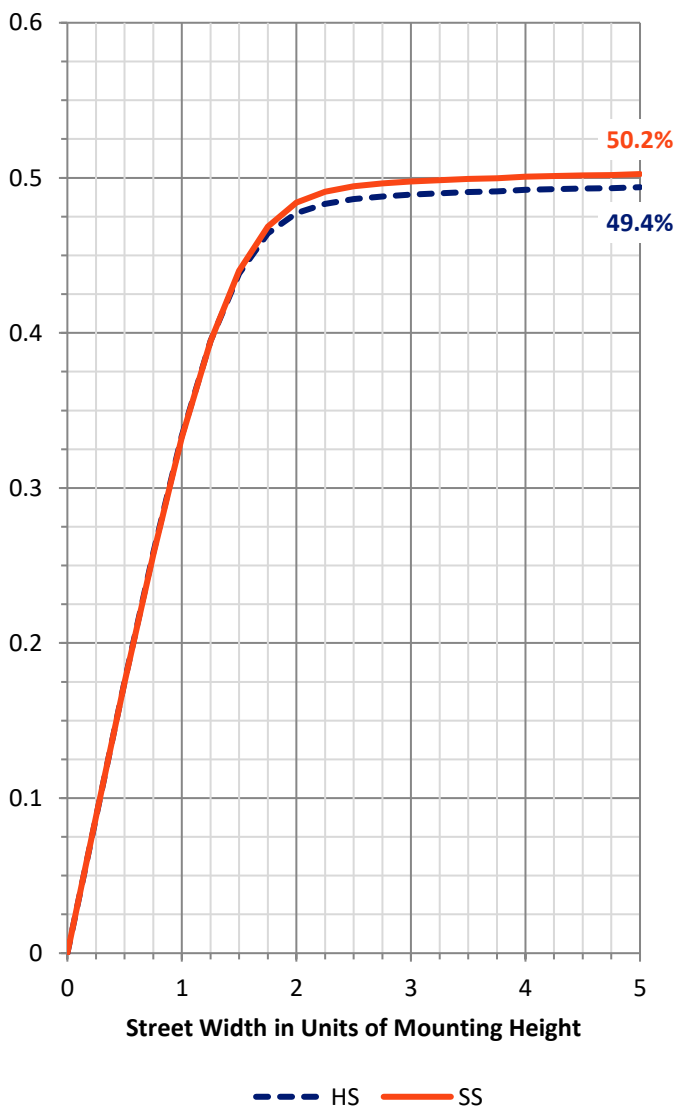
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5182.3	0.0	5182.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5256.6	0.0	5256.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	10438.8	0.0	10438.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.0
10°-20°	362.3	3.5
20°-30°	701.5	6.7
30°-40°	1186.5	11.4
40°-50°	1892.8	18.1
50°-60°	2590.8	24.8
60°-70°	2442.0	23.4
70°-80°	1075.8	10.3
80°-90°	80.9	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°	10438.8	100.0
0°-180°	10438.8	100.0



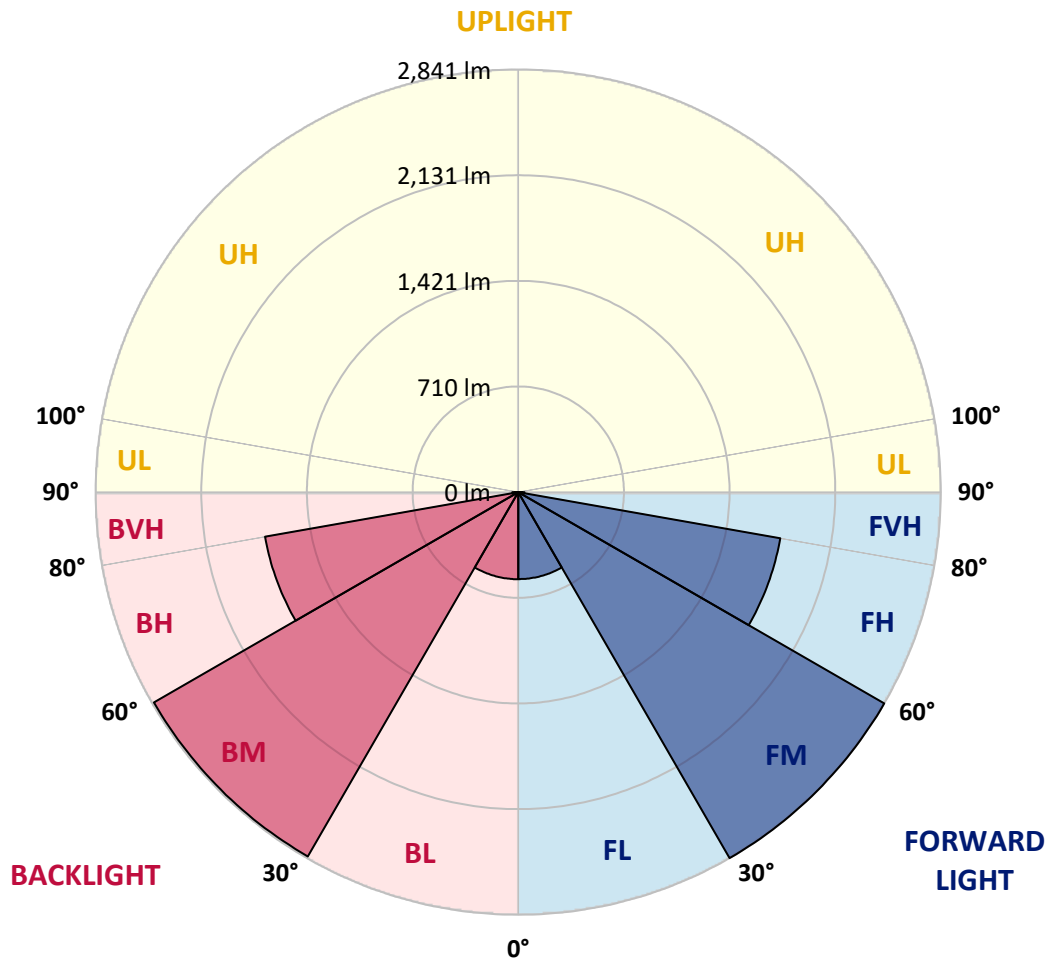
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.7	5.6			
FM (30°-60°)	2841.4	27.2			
FH (60°-80°)	1789.1	17.1			G1/1800
FVH (80°-90°)	41.3	0.4			G1/100
BL (0°-30°)	585.4	5.6	B2/1000		
BM (30°-60°)	2828.7	27.1	B3/5000		
BH (60°-80°)	1728.7	16.6	B3/2500		G3/2500
BVH (80°-90°)	39.6	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°	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9
2.5°	1062.2	1062.2	1061.1	1066.7	1072.3	1074.6	1079.1	1080.2	1086.9	1081.3	1092.6
5°	1058.8	1057.7	1066.7	1080.2	1080.2	1094.8	1103.8	1116.2	1119.6	1126.3	1128.6
7.5°	1082.4	1080.2	1075.7	1090.3	1102.7	1125.2	1137.6	1158.9	1166.8	1175.8	1185.9
10°	1097.1	1097.1	1092.6	1118.4	1129.7	1160.1	1187.1	1208.5	1238.8	1249.0	1250.1
12.5°	1099.3	1102.7	1116.2	1149.9	1181.4	1220.8	1241.1	1281.6	1312.0	1331.1	1337.8
15°	1133.1	1126.3	1140.9	1187.1	1233.2	1268.1	1304.1	1333.3	1377.2	1402.0	1417.7
17.5°	1163.4	1156.7	1183.7	1238.8	1286.1	1340.1	1371.6	1403.1	1434.6	1457.1	1458.2
20°	1211.8	1217.5	1241.1	1300.7	1362.6	1409.9	1445.9	1451.5	1467.2	1499.9	1494.2
22.5°	1271.5	1267.0	1316.5	1381.7	1449.2	1488.6	1508.9	1494.2	1486.4	1521.3	1529.1
25°	1331.1	1344.6	1389.6	1450.4	1531.4	1584.3	1589.9	1549.4	1520.1	1532.5	1529.1
27.5°	1422.2	1424.5	1471.7	1543.8	1625.9	1672.0	1668.7	1611.3	1555.0	1556.1	1558.4
30°	1539.3	1528.0	1579.8	1645.0	1726.0	1767.7	1773.3	1691.2	1615.8	1593.3	1598.9
32.5°	1651.8	1665.3	1710.3	1784.5	1844.2	1867.8	1855.4	1782.3	1684.4	1654.0	1657.4
35°	1795.8	1793.5	1855.4	1918.4	1963.5	1968.0	1957.8	1850.9	1758.7	1719.3	1703.5
37.5°	1949.9	1970.2	2010.7	2062.5	2109.7	2112.0	2056.8	1971.3	1857.7	1792.4	1811.6
40°	2122.1	2144.6	2173.9	2249.2	2284.1	2248.1	2191.9	2076.0	1957.8	1900.4	1909.4
42.5°	2274.0	2284.1	2343.8	2432.7	2449.5	2433.8	2350.5	2209.9	2072.6	2009.6	2014.1
45°	2413.5	2427.0	2504.7	2584.6	2623.9	2596.9	2500.2	2366.3	2206.5	2152.5	2131.1
47.5°	2541.8	2568.8	2644.2	2726.3	2787.1	2789.3	2670.1	2508.0	2339.3	2268.4	2267.3
50°	2628.4	2667.8	2742.1	2835.5	2924.4	2959.2	2840.0	2665.6	2484.4	2409.0	2401.1
52.5°	2675.7	2716.2	2790.5	2935.6	3034.6	3088.6	3032.4	2813.0	2654.3	2575.6	2563.2
55°	2618.3	2645.3	2766.8	2970.5	3123.5	3212.4	3175.3	3016.6	2823.1	2759.0	2770.2
57.5°	2374.1	2430.4	2580.1	2834.3	3121.3	3339.6	3336.2	3209.0	3017.8	2957.0	2959.2
60°	1954.4	2001.7	2186.2	2541.8	2995.2	3391.3	3510.6	3395.8	3236.0	3165.1	3162.9
62.5°	1379.5	1439.1	1652.9	2041.1	2623.9	3319.3	3710.9	3631.0	3449.8	3398.1	3417.2
65°	771.9	807.9	1005.9	1357.0	1999.5	2923.2	3746.9	3875.1	3667.0	3588.2	3591.6
67.5°	412.9	426.4	518.7	712.2	1223.1	2253.7	3383.4	4015.8	3902.1	3766.0	3744.6
70°	283.5	288.0	311.7	364.6	578.3	1348.0	2551.9	3764.9	4078.8	3893.1	3929.2
72.5°	239.7	237.4	243.0	248.7	302.7	603.1	1497.6	2897.4	3850.4	3780.6	3767.1
75°	208.2	207.0	209.3	203.7	210.4	265.5	662.7	1805.9	2818.6	3146.0	3196.7
77.5°	172.2	173.3	174.4	168.8	166.5	175.5	266.7	793.3	1387.4	1531.4	1651.8
80°	130.5	132.8	141.8	136.1	127.1	128.3	157.5	265.5	398.3	361.2	372.4
82.5°	88.9	90.0	109.1	102.4	95.6	86.6	101.3	137.3	155.3	118.1	103.5
85°	63.0	61.9	70.9	65.3	60.8	43.9	60.8	77.6	93.4	58.5	52.9
87.5°	14.6	14.6	29.3	23.6	22.5	18.0	23.6	30.4	40.5	25.9	23.6
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°	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9	1068.9
2.5°	1089.2	1079.1	1079.1	1076.8	1067.8	1065.6	1057.7	1059.9	1054.3	1048.7
5°	1127.4	1113.9	1113.9	1094.8	1076.8	1074.6	1065.6	1065.6	1056.6	1058.8
7.5°	1180.3	1167.9	1147.7	1130.8	1106.1	1095.9	1079.1	1076.8	1074.6	1070.1
10°	1243.3	1227.6	1207.3	1172.4	1152.2	1133.1	1116.2	1092.6	1086.9	1088.1
12.5°	1328.8	1304.1	1260.2	1229.8	1203.9	1179.2	1154.4	1119.6	1111.7	1115.1
15°	1389.6	1358.1	1314.2	1303.0	1268.1	1237.7	1197.2	1157.8	1144.3	1140.9
17.5°	1439.1	1413.2	1387.4	1370.5	1342.3	1305.2	1249.0	1203.9	1173.6	1170.2
20°	1479.6	1445.9	1440.2	1450.4	1415.5	1390.7	1322.1	1267.0	1226.5	1209.6
22.5°	1504.4	1483.0	1498.7	1507.7	1505.5	1463.9	1393.0	1328.8	1278.2	1262.5
25°	1531.4	1506.6	1562.9	1593.3	1601.1	1532.5	1477.4	1393.0	1343.5	1333.3
27.5°	1544.9	1553.9	1619.1	1683.3	1677.7	1624.8	1550.5	1475.1	1435.7	1417.7
30°	1584.3	1598.9	1697.9	1769.9	1771.0	1719.3	1663.0	1577.5	1533.6	1525.8
32.5°	1655.1	1673.2	1778.9	1855.4	1868.9	1829.6	1773.3	1720.4	1675.4	1657.4
35°	1709.2	1755.3	1874.6	1944.3	1980.3	1956.7	1925.2	1870.1	1822.8	1807.0
37.5°	1786.8	1850.9	1965.7	2060.2	2100.7	2098.5	2074.8	2015.2	1975.8	1962.3
40°	1898.2	1962.3	2067.0	2191.9	2267.3	2263.9	2250.4	2204.2	2145.7	2139.0
42.5°	2016.3	2069.2	2205.4	2348.3	2456.3	2445.0	2409.0	2355.0	2314.5	2305.5
45°	2131.1	2213.2	2339.3	2522.7	2603.7	2631.8	2589.1	2496.8	2450.7	2445.0
47.5°	2275.1	2340.4	2497.9	2662.2	2782.6	2787.1	2713.9	2628.4	2544.0	2562.0
50°	2403.4	2490.0	2649.8	2829.8	2973.9	2922.1	2828.7	2721.8	2661.1	2637.4
52.5°	2540.7	2646.4	2832.1	3015.5	3095.4	3043.6	2891.7	2772.5	2680.2	2670.1
55°	2741.0	2796.1	3039.1	3179.8	3205.7	3096.5	2872.6	2703.8	2584.6	2555.3
57.5°	2944.6	3008.7	3221.4	3342.9	3315.9	3067.3	2748.8	2487.8	2331.4	2289.8
60°	3150.5	3229.3	3408.2	3519.6	3380.1	2865.8	2398.9	2062.5	1880.2	1843.1
62.5°	3380.1	3482.5	3642.2	3681.6	3189.9	2467.5	1903.8	1488.6	1304.1	1242.2
65°	3583.7	3688.4	3885.3	3647.9	2786.0	1840.8	1231.0	850.6	714.5	665.0
67.5°	3751.4	3869.5	3966.3	3228.2	2040.0	1077.9	641.4	447.8	397.2	379.2
70°	3884.1	4081.1	3628.7	2373.0	1165.7	525.5	346.6	294.8	288.0	283.5
72.5°	3768.2	3742.4	2709.4	1369.4	510.8	289.2	250.9	243.0	241.9	243.0
75°	3081.9	2748.8	1620.3	595.2	256.5	209.3	208.2	204.8	210.4	210.4
77.5°	1495.4	1307.5	677.4	255.4	168.8	164.3	169.9	169.9	169.9	169.9
80°	346.6	383.7	241.9	155.3	122.6	122.6	135.0	136.1	130.5	128.3
82.5°	118.1	157.5	132.8	97.9	81.0	91.1	102.4	104.6	86.6	87.8
85°	58.5	92.3	72.0	56.3	41.6	56.3	66.4	69.8	59.6	57.4
87.5°	27.0	40.5	27.0	19.1	14.6	20.3	19.1	15.8	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)