

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: P481272

Luminaire Tested: **IFLD-S-SA2B-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481272
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

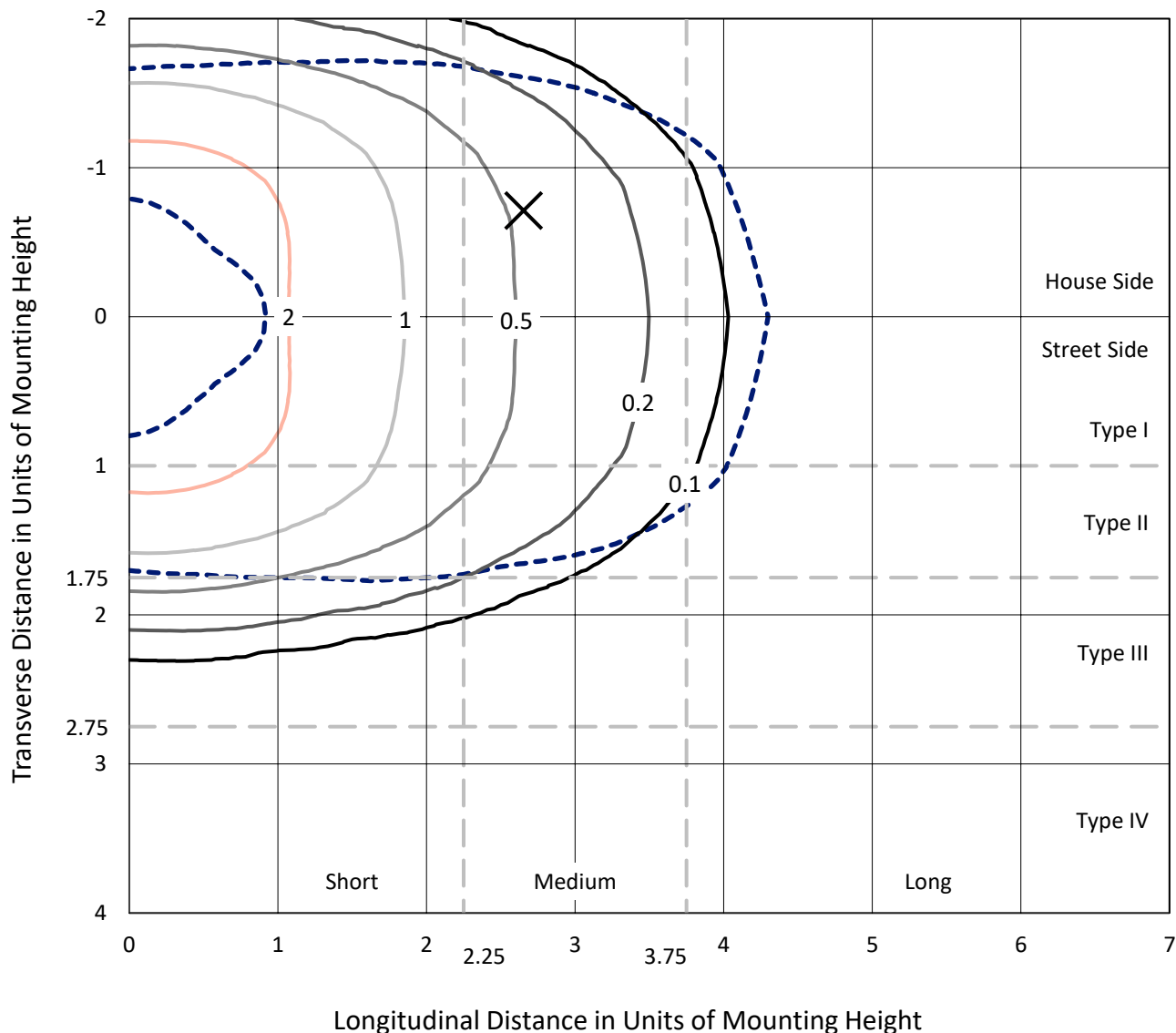
Lumens per Lamp: N/A
Luminaire Lumens: 11760.6 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 82.4
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

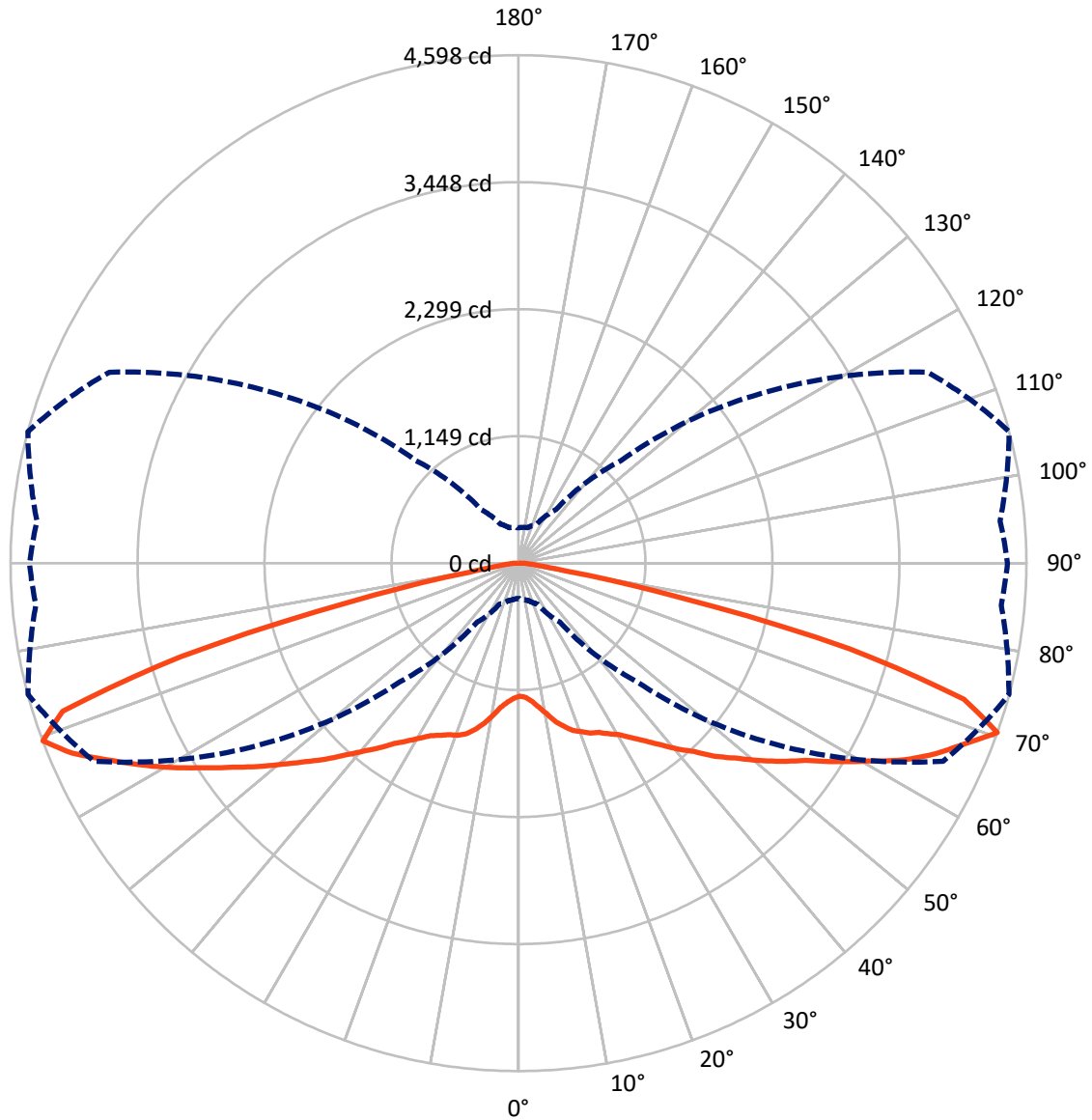
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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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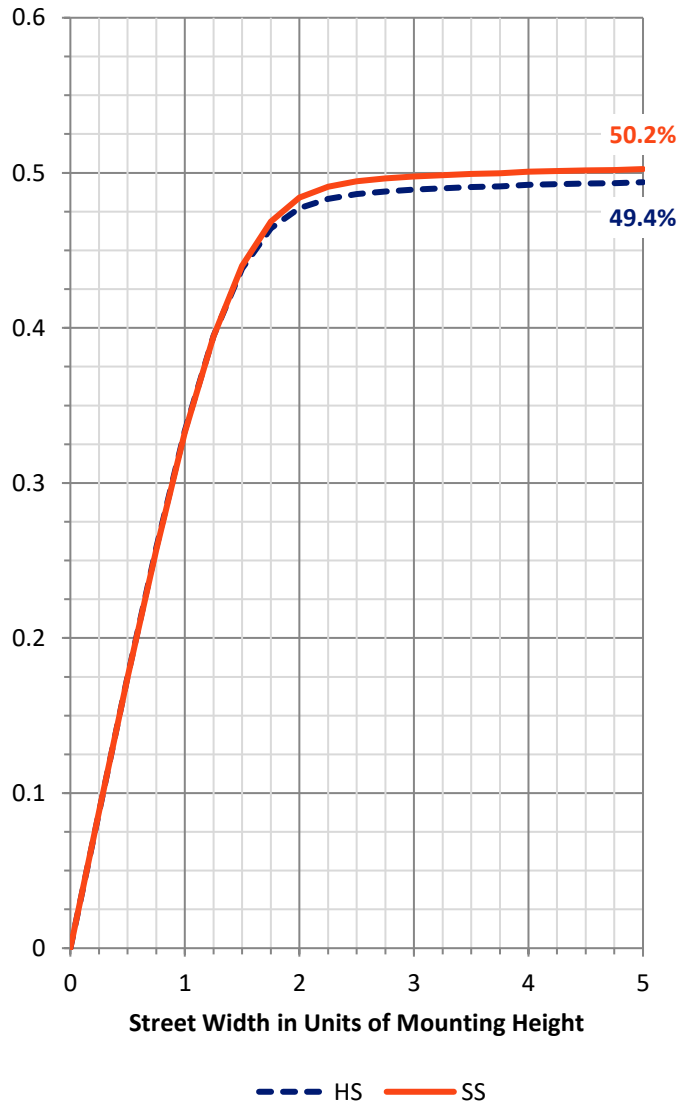
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5838.5	0.0	5838.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5922.1	0.0	5922.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	11760.6	0.0	11760.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.0
10°-20°	408.1	3.5
20°-30°	790.3	6.7
30°-40°	1336.7	11.4
40°-50°	2132.4	18.1
50°-60°	2918.8	24.8
60°-70°	2751.2	23.4
70°-80°	1212.0	10.3
80°-90°	91.2	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°	11760.6	100.0
0°-180°	11760.6	100.0

Coefficient of Utilization



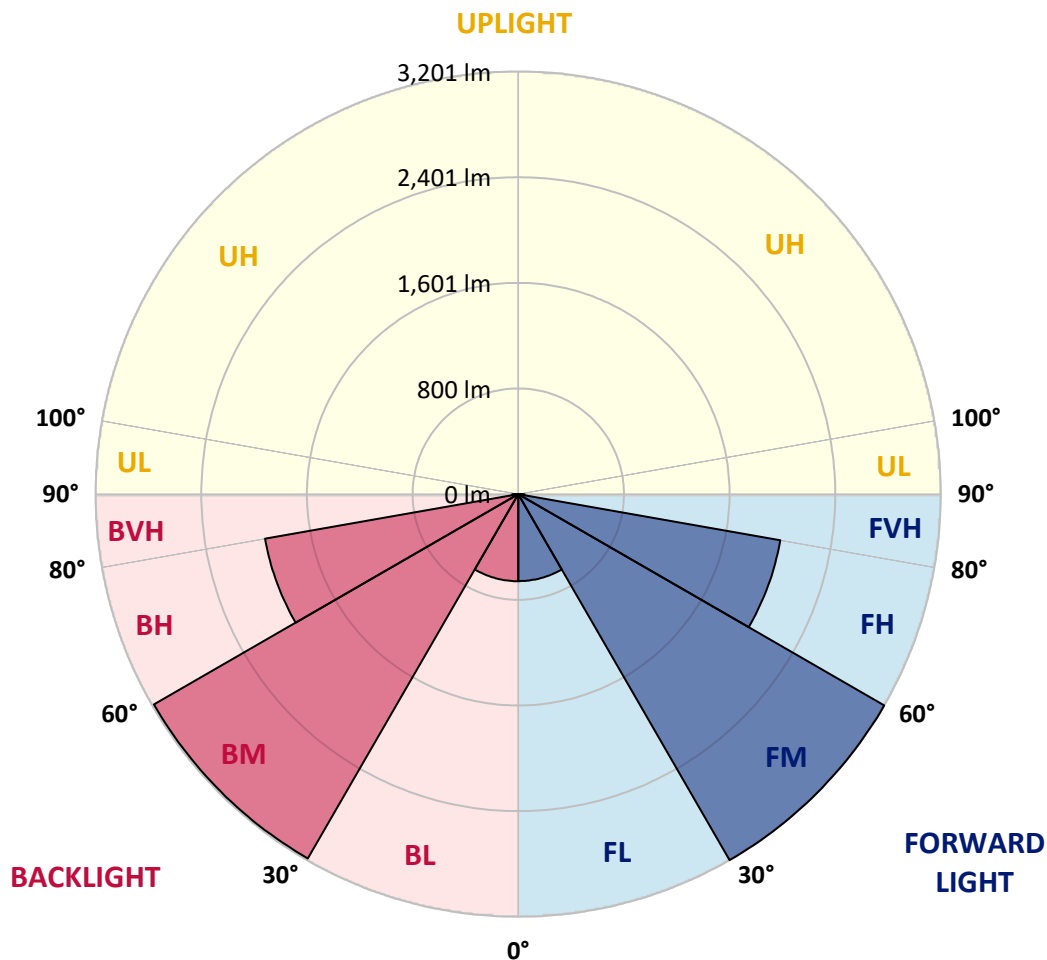
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.8	5.6			
FM (30°-60°)	3201.1	27.2			
FH (60°-80°)	2015.6	17.1			G2/5000
FVH (80°-90°)	46.6	0.4			G1/100
BL (0°-30°)	659.5	5.6	B2/1000		
BM (30°-60°)	3186.8	27.1	B3/5000		
BH (60°-80°)	1947.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	44.6	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°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1196.7	1196.7	1195.4	1201.7	1208.1	1210.6	1215.7	1217.0	1224.6	1218.2	1230.9
5°	1192.9	1191.6	1201.7	1217.0	1217.0	1233.4	1243.6	1257.5	1261.3	1268.9	1271.5
7.5°	1219.5	1217.0	1211.9	1228.4	1242.3	1267.7	1281.6	1305.7	1314.6	1324.7	1336.1
10°	1236.0	1236.0	1230.9	1260.1	1272.7	1307.0	1337.4	1361.5	1395.7	1407.1	1408.4
12.5°	1238.5	1242.3	1257.5	1295.5	1331.0	1375.4	1398.2	1443.9	1478.1	1499.6	1507.2
15°	1276.5	1268.9	1285.4	1337.4	1389.4	1428.7	1469.2	1502.2	1551.6	1579.5	1597.2
17.5°	1310.8	1303.2	1333.6	1395.7	1448.9	1509.8	1545.3	1580.8	1616.3	1641.6	1642.9
20°	1365.3	1371.6	1398.2	1465.4	1535.1	1588.4	1628.9	1635.3	1653.0	1689.8	1683.5
22.5°	1432.5	1427.4	1483.2	1556.7	1632.7	1677.1	1699.9	1683.5	1674.6	1713.9	1722.7
25°	1499.6	1514.9	1565.6	1634.0	1725.3	1784.9	1791.2	1745.6	1712.6	1726.6	1722.7
27.5°	1602.3	1604.9	1658.1	1739.2	1831.8	1883.7	1879.9	1815.3	1751.9	1753.2	1755.7
30°	1734.2	1721.5	1779.8	1853.3	1944.6	1991.5	1997.8	1905.3	1820.4	1795.0	1801.3
32.5°	1860.9	1876.1	1926.8	2010.5	2077.7	2104.3	2090.4	2008.0	1897.7	1863.5	1867.3
35°	2023.2	2020.6	2090.4	2161.4	2212.1	2217.1	2205.7	2085.3	1981.3	1937.0	1919.2
37.5°	2196.9	2219.7	2265.3	2323.6	2376.9	2379.4	2317.3	2220.9	2092.9	2019.4	2040.9
40°	2390.8	2416.2	2449.1	2534.0	2573.3	2532.8	2469.4	2338.8	2205.7	2141.1	2151.2
42.5°	2561.9	2573.3	2640.5	2740.7	2759.7	2741.9	2648.1	2489.7	2335.0	2264.0	2269.1
45°	2719.1	2734.3	2821.8	2911.8	2956.2	2925.8	2816.7	2665.9	2485.9	2425.0	2400.9
47.5°	2863.6	2894.1	2979.0	3071.5	3140.0	3142.5	3008.2	2825.6	2635.5	2555.6	2554.3
50°	2961.2	3005.6	3089.3	3194.5	3294.6	3333.9	3199.6	3003.1	2799.0	2714.1	2705.2
52.5°	3014.5	3060.1	3143.8	3307.3	3418.9	3479.7	3416.3	3169.1	2990.4	2901.7	2887.7
55°	2949.8	2980.3	3117.2	3346.6	3519.0	3619.2	3577.3	3398.6	3180.6	3108.3	3121.0
57.5°	2674.8	2738.1	2906.7	3193.2	3516.5	3762.4	3758.6	3615.4	3399.9	3331.4	3333.9
60°	2201.9	2255.2	2463.1	2863.6	3374.5	3820.7	3955.1	3825.8	3645.8	3565.9	3563.4
62.5°	1554.1	1621.3	1862.2	2299.5	2956.2	3739.6	4180.7	4090.7	3886.6	3828.3	3849.9
65°	869.6	910.2	1133.3	1528.8	2252.6	3293.4	4221.3	4365.8	4131.3	4042.6	4046.4
67.5°	465.2	480.4	584.4	802.4	1377.9	2539.1	3811.8	4524.3	4396.2	4242.9	4218.8
70°	319.4	324.5	351.1	410.7	651.6	1518.7	2875.0	4241.6	4595.3	4386.1	4426.7
72.5°	270.0	267.5	273.8	280.2	341.0	679.5	1687.3	3264.2	4337.9	4259.3	4244.1
75°	234.5	233.2	235.8	229.4	237.1	299.2	746.7	2034.6	3175.5	3544.4	3601.4
77.5°	194.0	195.2	196.5	190.1	187.6	197.8	300.4	893.7	1563.0	1725.3	1860.9
80°	147.0	149.6	159.7	153.4	143.2	144.5	177.5	299.2	448.8	406.9	419.6
82.5°	100.1	101.4	123.0	115.4	107.8	97.6	114.1	154.7	174.9	133.1	116.6
85°	71.0	69.7	79.9	73.5	68.5	49.4	68.5	87.5	105.2	65.9	59.6
87.5°	16.5	16.5	33.0	26.6	25.4	20.3	26.6	34.2	45.6	29.2	26.6
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°	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3	1204.3
2.5°	1227.1	1215.7	1215.7	1213.1	1203.0	1200.5	1191.6	1194.1	1187.8	1181.5
5°	1270.2	1255.0	1255.0	1233.4	1213.1	1210.6	1200.5	1200.5	1190.3	1192.9
7.5°	1329.8	1315.8	1293.0	1274.0	1246.1	1234.7	1215.7	1213.1	1210.6	1205.5
10°	1400.8	1383.0	1360.2	1320.9	1298.1	1276.5	1257.5	1230.9	1224.6	1225.8
12.5°	1497.1	1469.2	1419.8	1385.6	1356.4	1328.5	1300.6	1261.3	1252.4	1256.2
15°	1565.6	1530.1	1480.6	1467.9	1428.7	1394.4	1348.8	1304.4	1289.2	1285.4
17.5°	1621.3	1592.2	1563.0	1544.0	1512.3	1470.5	1407.1	1356.4	1322.2	1318.4
20°	1667.0	1628.9	1622.6	1634.0	1594.7	1566.8	1489.5	1427.4	1381.7	1362.7
22.5°	1694.9	1670.8	1688.5	1698.7	1696.1	1649.2	1569.4	1497.1	1440.1	1422.3
25°	1725.3	1697.4	1760.8	1795.0	1803.9	1726.6	1664.4	1569.4	1513.6	1502.2
27.5°	1740.5	1750.6	1824.2	1896.4	1890.1	1830.5	1746.8	1661.9	1617.5	1597.2
30°	1784.9	1801.3	1912.9	1994.0	1995.3	1937.0	1873.6	1777.3	1727.8	1718.9
32.5°	1864.7	1885.0	2004.2	2090.4	2105.6	2061.2	1997.8	1938.2	1887.5	1867.3
35°	1925.6	1977.5	2111.9	2190.5	2231.1	2204.5	2169.0	2106.8	2053.6	2035.9
37.5°	2013.0	2085.3	2214.6	2321.1	2366.7	2364.2	2337.6	2270.4	2226.0	2210.8
40°	2138.5	2210.8	2328.7	2469.4	2554.3	2550.5	2535.3	2483.3	2417.4	2409.8
42.5°	2271.6	2331.2	2484.6	2645.6	2767.3	2754.6	2714.1	2653.2	2607.6	2597.4
45°	2400.9	2493.5	2635.5	2842.1	2933.4	2965.1	2916.9	2812.9	2761.0	2754.6
47.5°	2563.2	2636.7	2814.2	2999.3	3134.9	3140.0	3057.6	2961.2	2866.2	2886.5
50°	2707.7	2805.3	2985.3	3188.2	3350.4	3292.1	3186.9	3066.5	2998.0	2971.4
52.5°	2862.4	2981.5	3190.7	3397.3	3487.3	3429.0	3257.9	3123.5	3019.6	3008.2
55°	3088.0	3150.1	3423.9	3582.4	3611.6	3488.6	3236.3	3046.2	2911.8	2878.9
57.5°	3317.5	3389.7	3629.3	3766.2	3735.8	3455.6	3096.9	2802.8	2626.6	2579.7
60°	3549.4	3638.2	3839.7	3965.2	3808.0	3228.7	2702.6	2323.6	2118.3	2076.4
62.5°	3808.0	3923.4	4103.4	4147.8	3593.8	2780.0	2144.9	1677.1	1469.2	1399.5
65°	4037.5	4155.4	4377.2	4109.7	3138.7	2073.9	1386.8	958.3	805.0	749.2
67.5°	4226.4	4359.5	4468.5	3636.9	2298.3	1214.4	722.6	504.5	447.5	427.2
70°	4376.0	4597.8	4088.2	2673.5	1313.3	592.0	390.4	332.1	324.5	319.4
72.5°	4245.4	4216.2	3052.5	1542.7	575.5	325.8	282.7	273.8	272.5	273.8
75°	3472.1	3096.9	1825.4	670.6	289.0	235.8	234.5	230.7	237.1	237.1
77.5°	1684.7	1473.0	763.1	287.8	190.1	185.1	191.4	191.4	191.4	191.4
80°	390.4	432.3	272.5	174.9	138.2	138.2	152.1	153.4	147.0	144.5
82.5°	133.1	177.5	149.6	110.3	91.3	102.7	115.4	117.9	97.6	98.9
85°	65.9	103.9	81.1	63.4	46.9	63.4	74.8	78.6	67.2	64.7
87.5°	30.4	45.6	30.4	21.6	16.5	22.8	21.6	17.7	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)