

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: P481194

Luminaire Tested: **IFLD-S-SA2B-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

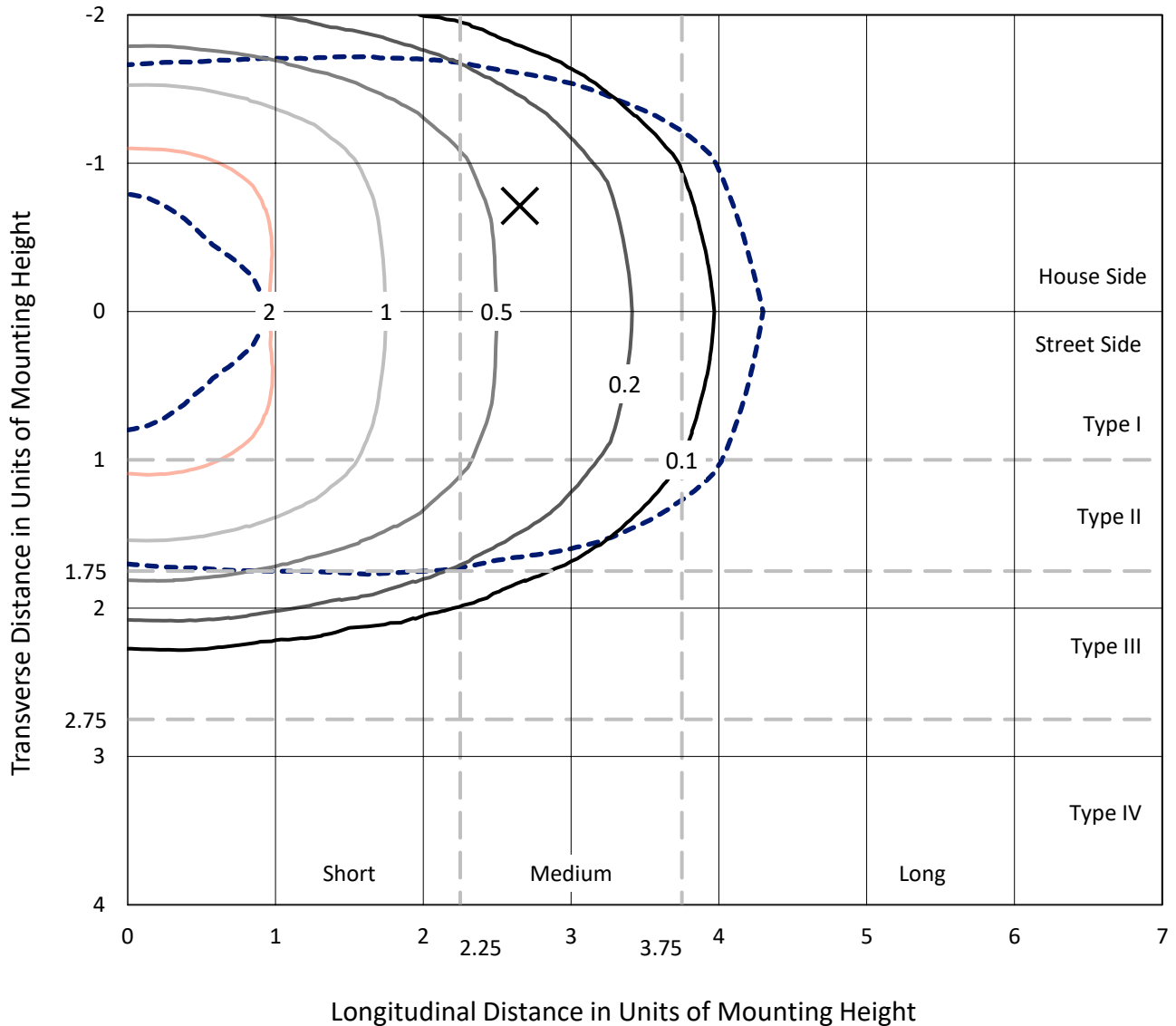
Lumens per Lamp: N/A
Luminaire Lumens: 10709.2 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

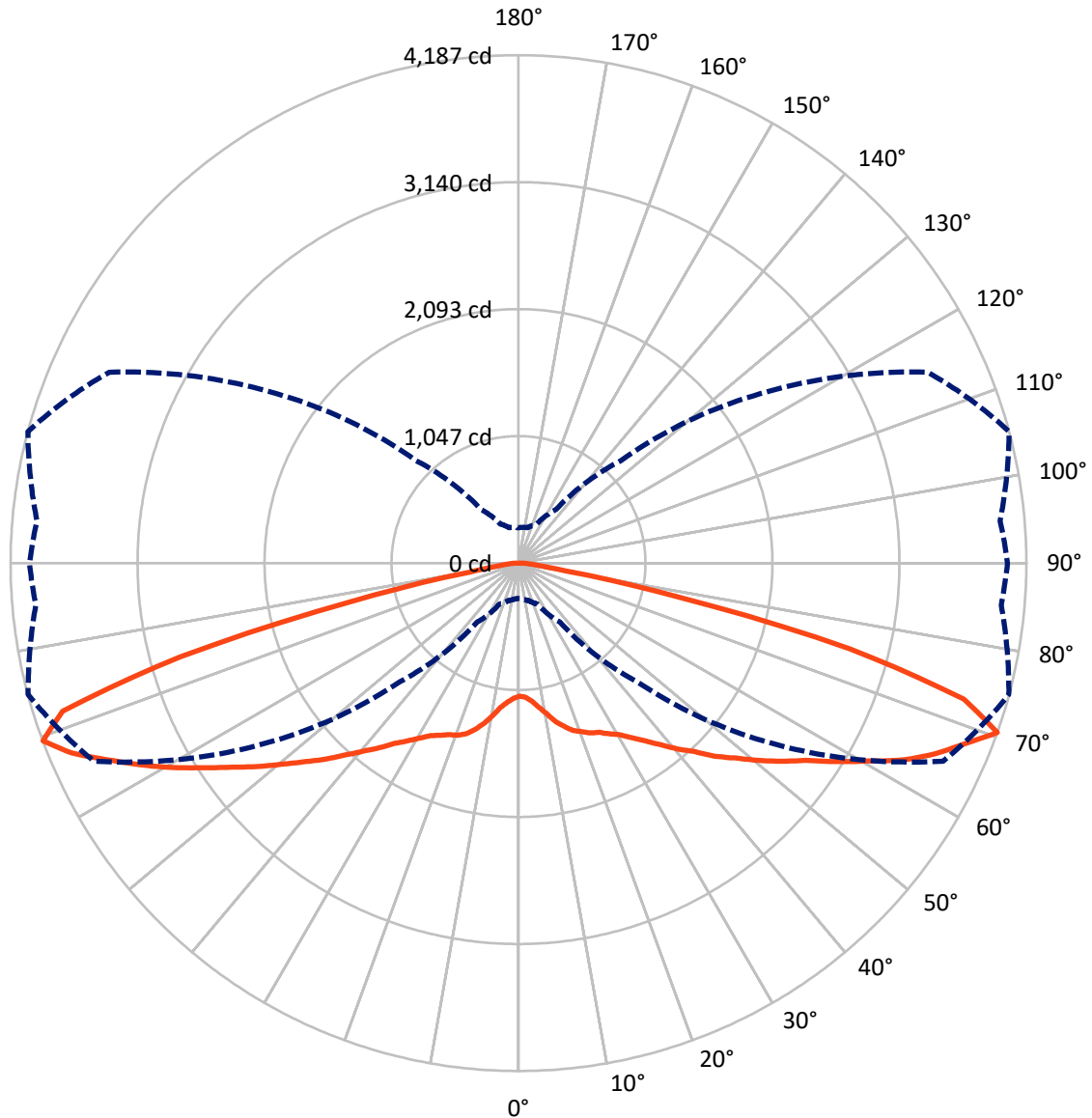
× Max cd
 - - - 1/2 Max cd



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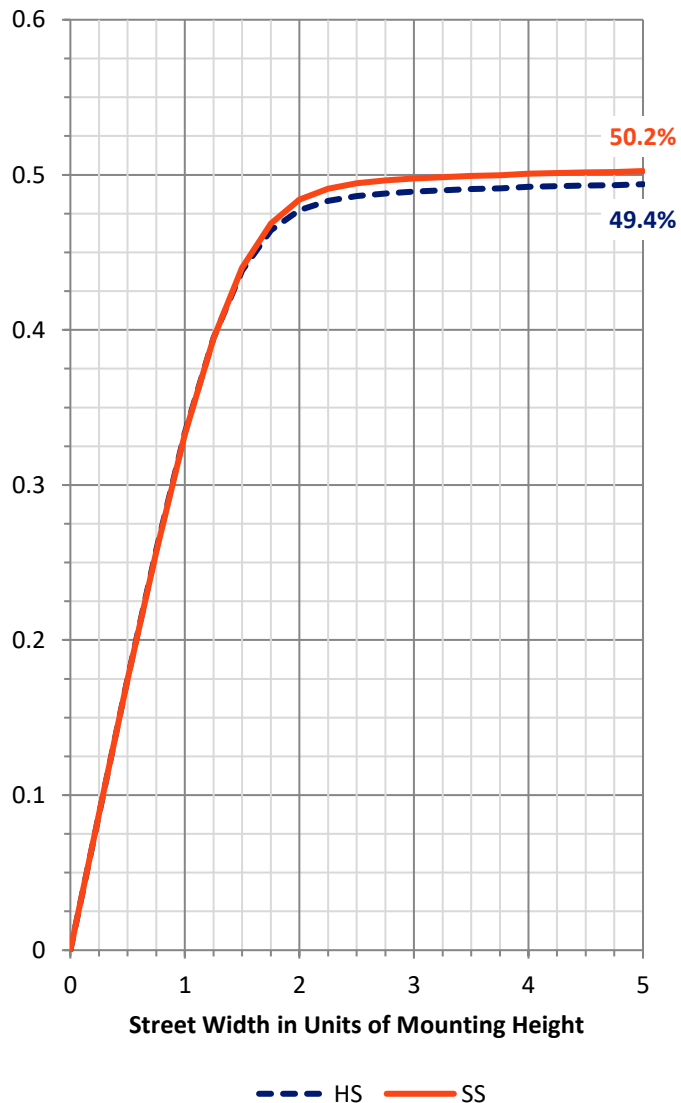
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5316.5	0.0	5316.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	5392.7	0.0	5392.7
	% Fixture	50.4	0.0	50.4
Total	Lumens	10709.2	0.0	10709.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.0
10°-20°	371.6	3.5
20°-30°	719.6	6.7
30°-40°	1217.2	11.4
40°-50°	1941.8	18.1
50°-60°	2657.9	24.8
60°-70°	2505.2	23.4
70°-80°	1103.6	10.3
80°-90°	83.0	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°	10709.2	100.0
0°-180°	10709.2	100.0

Coefficient of Utilization



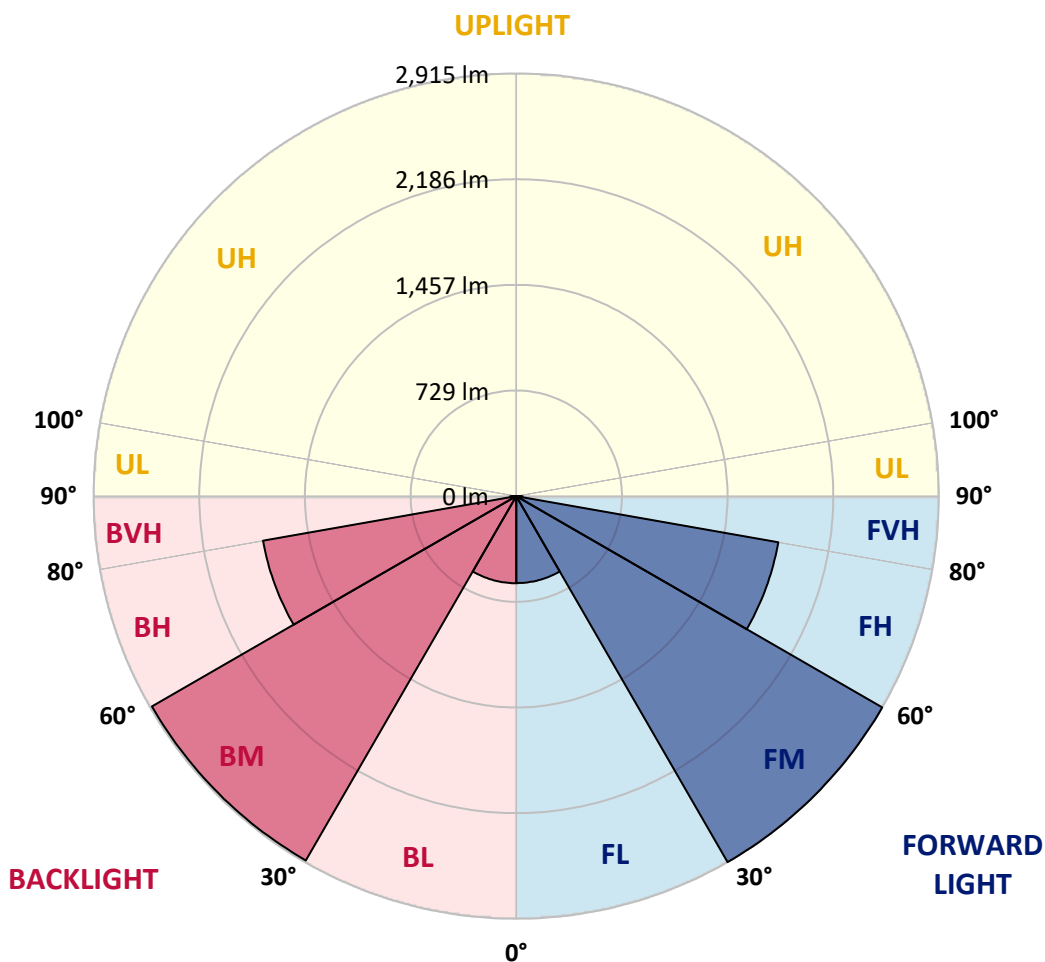
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	5.6			
FM (30°-60°)	2915.0	27.2			
FH (60°-80°)	1835.4	17.1			G2/5000
FVH (80°-90°)	42.4	0.4			G1/100
BL (0°-30°)	600.5	5.6	B2/1000		
BM (30°-60°)	2901.9	27.1	B3/5000		
BH (60°-80°)	1773.4	16.6	B3/2500		G3/2500
BVH (80°-90°)	40.6	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°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1089.7	1089.7	1088.5	1094.3	1100.1	1102.4	1107.0	1108.2	1115.1	1109.3	1120.9
5°	1086.2	1085.1	1094.3	1108.2	1108.2	1123.2	1132.4	1145.1	1148.6	1155.5	1157.8
7.5°	1110.5	1108.2	1103.5	1118.5	1131.2	1154.3	1167.0	1189.0	1197.0	1206.3	1216.7
10°	1125.5	1125.5	1120.9	1147.4	1158.9	1190.1	1217.8	1239.8	1270.9	1281.3	1282.5
12.5°	1127.8	1131.2	1145.1	1179.7	1212.0	1252.4	1273.2	1314.8	1345.9	1365.6	1372.5
15°	1162.4	1155.5	1170.5	1217.8	1265.1	1300.9	1337.9	1367.9	1412.9	1438.3	1454.5
17.5°	1193.6	1186.7	1214.4	1270.9	1319.4	1374.8	1407.1	1439.4	1471.8	1494.9	1496.0
20°	1243.2	1249.0	1273.2	1334.4	1397.9	1446.4	1483.3	1489.1	1505.2	1538.7	1532.9
22.5°	1304.4	1299.8	1350.6	1417.5	1486.8	1527.2	1548.0	1532.9	1524.9	1560.7	1568.7
25°	1365.6	1379.4	1425.6	1487.9	1571.0	1625.3	1631.1	1589.5	1559.5	1572.2	1568.7
27.5°	1459.1	1461.4	1509.9	1583.7	1668.0	1715.3	1711.9	1653.0	1595.3	1596.4	1598.7
30°	1579.1	1567.6	1620.7	1687.6	1770.7	1813.5	1819.2	1735.0	1657.6	1634.5	1640.3
32.5°	1694.6	1708.4	1754.6	1830.8	1891.9	1916.2	1903.5	1828.5	1728.0	1696.9	1700.3
35°	1842.3	1840.0	1903.5	1968.1	2014.3	2018.9	2008.5	1898.9	1804.2	1763.8	1747.7
37.5°	2000.5	2021.2	2062.8	2115.9	2164.4	2166.7	2110.1	2022.4	1905.8	1838.8	1858.5
40°	2177.1	2200.2	2230.2	2307.5	2343.3	2306.4	2248.6	2129.7	2008.5	1949.7	1958.9
42.5°	2332.9	2343.3	2404.5	2495.7	2513.0	2496.8	2411.4	2267.1	2126.3	2061.6	2066.3
45°	2476.0	2489.9	2569.5	2651.5	2691.9	2664.2	2564.9	2427.6	2263.6	2208.2	2186.3
47.5°	2607.6	2635.3	2712.7	2796.9	2859.3	2861.6	2739.2	2573.0	2399.9	2327.1	2326.0
50°	2696.5	2736.9	2813.1	2908.9	3000.1	3035.9	2913.5	2734.6	2548.8	2471.4	2463.3
52.5°	2745.0	2786.6	2862.7	3011.6	3113.2	3168.6	3110.9	2885.8	2723.1	2642.3	2629.6
55°	2686.1	2713.8	2838.5	3047.4	3204.4	3295.6	3257.5	3094.8	2896.2	2830.4	2842.0
57.5°	2435.6	2493.4	2646.9	2907.8	3202.1	3426.1	3422.6	3292.1	3095.9	3033.6	3035.9
60°	2005.1	2053.6	2242.9	2607.6	3072.8	3479.1	3601.5	3483.8	3319.9	3247.1	3244.8
62.5°	1415.2	1476.4	1695.7	2094.0	2691.9	3405.3	3807.0	3725.0	3539.2	3486.1	3505.7
65°	791.9	828.8	1032.0	1392.1	2051.2	2998.9	3843.9	3975.5	3762.0	3681.2	3684.6
67.5°	423.6	437.5	532.1	730.7	1254.8	2312.1	3471.1	4119.8	4003.2	3863.5	3841.6
70°	290.9	295.5	319.7	374.0	593.3	1382.9	2618.0	3862.4	4184.4	3994.0	4030.9
72.5°	245.9	243.6	249.3	255.1	310.5	618.7	1536.4	2972.4	3950.1	3878.5	3864.7
75°	213.6	212.4	214.7	208.9	215.9	272.4	679.9	1852.7	2891.6	3227.5	3279.5
77.5°	176.6	177.8	178.9	173.1	170.8	180.1	273.6	813.8	1423.3	1571.0	1694.6
80°	133.9	136.2	145.4	139.7	130.4	131.6	161.6	272.4	408.6	370.5	382.1
82.5°	91.2	92.3	112.0	105.0	98.1	88.9	103.9	140.8	159.3	121.2	106.2
85°	64.6	63.5	72.7	67.0	62.3	45.0	62.3	79.6	95.8	60.0	54.3
87.5°	15.0	15.0	30.0	24.2	23.1	18.5	24.2	31.2	41.6	26.5	24.2
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°	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6	1096.6
2.5°	1117.4	1107.0	1107.0	1104.7	1095.5	1093.2	1085.1	1087.4	1081.6	1075.8
5°	1156.6	1142.8	1142.8	1123.2	1104.7	1102.4	1093.2	1093.2	1083.9	1086.2
7.5°	1210.9	1198.2	1177.4	1160.1	1134.7	1124.3	1107.0	1104.7	1102.4	1097.8
10°	1275.5	1259.4	1238.6	1202.8	1182.0	1162.4	1145.1	1120.9	1115.1	1116.2
12.5°	1363.3	1337.9	1292.8	1261.7	1235.1	1209.7	1184.3	1148.6	1140.5	1143.9
15°	1425.6	1393.3	1348.3	1336.7	1300.9	1269.8	1228.2	1187.8	1174.0	1170.5
17.5°	1476.4	1449.8	1423.3	1406.0	1377.1	1339.0	1281.3	1235.1	1204.0	1200.5
20°	1517.9	1483.3	1477.5	1487.9	1452.1	1426.8	1356.3	1299.8	1258.2	1240.9
22.5°	1543.3	1521.4	1537.6	1546.8	1544.5	1501.8	1429.1	1363.3	1311.3	1295.2
25°	1571.0	1545.6	1603.4	1634.5	1642.6	1572.2	1515.6	1429.1	1378.3	1367.9
27.5°	1584.9	1594.1	1661.1	1726.9	1721.1	1666.9	1590.7	1513.3	1472.9	1454.5
30°	1625.3	1640.3	1741.9	1815.8	1816.9	1763.8	1706.1	1618.4	1573.4	1565.3
32.5°	1698.0	1716.5	1825.0	1903.5	1917.3	1876.9	1819.2	1765.0	1718.8	1700.3
35°	1753.4	1800.8	1923.1	1994.7	2031.6	2007.4	1975.1	1918.5	1870.0	1853.9
37.5°	1833.1	1898.9	2016.6	2113.6	2155.1	2152.8	2128.6	2067.4	2027.0	2013.2
40°	1947.4	2013.2	2120.5	2248.6	2326.0	2322.5	2308.7	2261.3	2201.3	2194.4
42.5°	2068.6	2122.8	2262.5	2409.1	2519.9	2508.4	2471.4	2416.0	2374.5	2365.2
45°	2186.3	2270.6	2399.9	2588.0	2671.1	2700.0	2656.1	2561.5	2514.1	2508.4
47.5°	2334.1	2401.0	2562.6	2731.1	2854.7	2859.3	2784.2	2696.5	2609.9	2628.4
50°	2465.6	2554.5	2718.4	2903.1	3050.9	2997.8	2902.0	2792.3	2730.0	2705.7
52.5°	2606.5	2715.0	2905.4	3093.6	3175.6	3122.5	2966.6	2844.3	2749.6	2739.2
55°	2811.9	2868.5	3117.8	3262.1	3288.7	3176.7	2947.0	2773.9	2651.5	2621.5
57.5°	3020.9	3086.7	3304.8	3429.5	3401.8	3146.7	2820.0	2552.2	2391.8	2349.1
60°	3232.1	3312.9	3496.5	3610.7	3467.6	2940.1	2461.0	2115.9	1928.9	1890.8
62.5°	3467.6	3572.7	3736.6	3777.0	3272.5	2531.4	1953.1	1527.2	1337.9	1274.4
65°	3676.5	3783.9	3985.9	3742.3	2858.1	1888.5	1262.8	872.7	733.0	682.2
67.5°	3848.5	3969.7	4069.0	3311.8	2092.8	1105.8	658.0	459.4	407.5	389.0
70°	3984.7	4186.8	3722.7	2434.5	1195.9	539.1	355.5	302.4	295.5	290.9
72.5°	3865.8	3839.3	2779.6	1404.8	524.1	296.7	257.4	249.3	248.2	249.3
75°	3161.7	2820.0	1662.2	610.6	263.2	214.7	213.6	210.1	215.9	215.9
77.5°	1534.1	1341.3	694.9	262.0	173.1	168.5	174.3	174.3	174.3	174.3
80°	355.5	393.6	248.2	159.3	125.8	125.8	138.5	139.7	133.9	131.6
82.5°	121.2	161.6	136.2	100.4	83.1	93.5	105.0	107.4	88.9	90.0
85°	60.0	94.7	73.9	57.7	42.7	57.7	68.1	71.6	61.2	58.9
87.5°	27.7	41.6	27.7	19.6	15.0	20.8	19.6	16.2	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)