

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: P479009

Luminaire Tested: **IFLD-S-SA2A-760-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-760-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

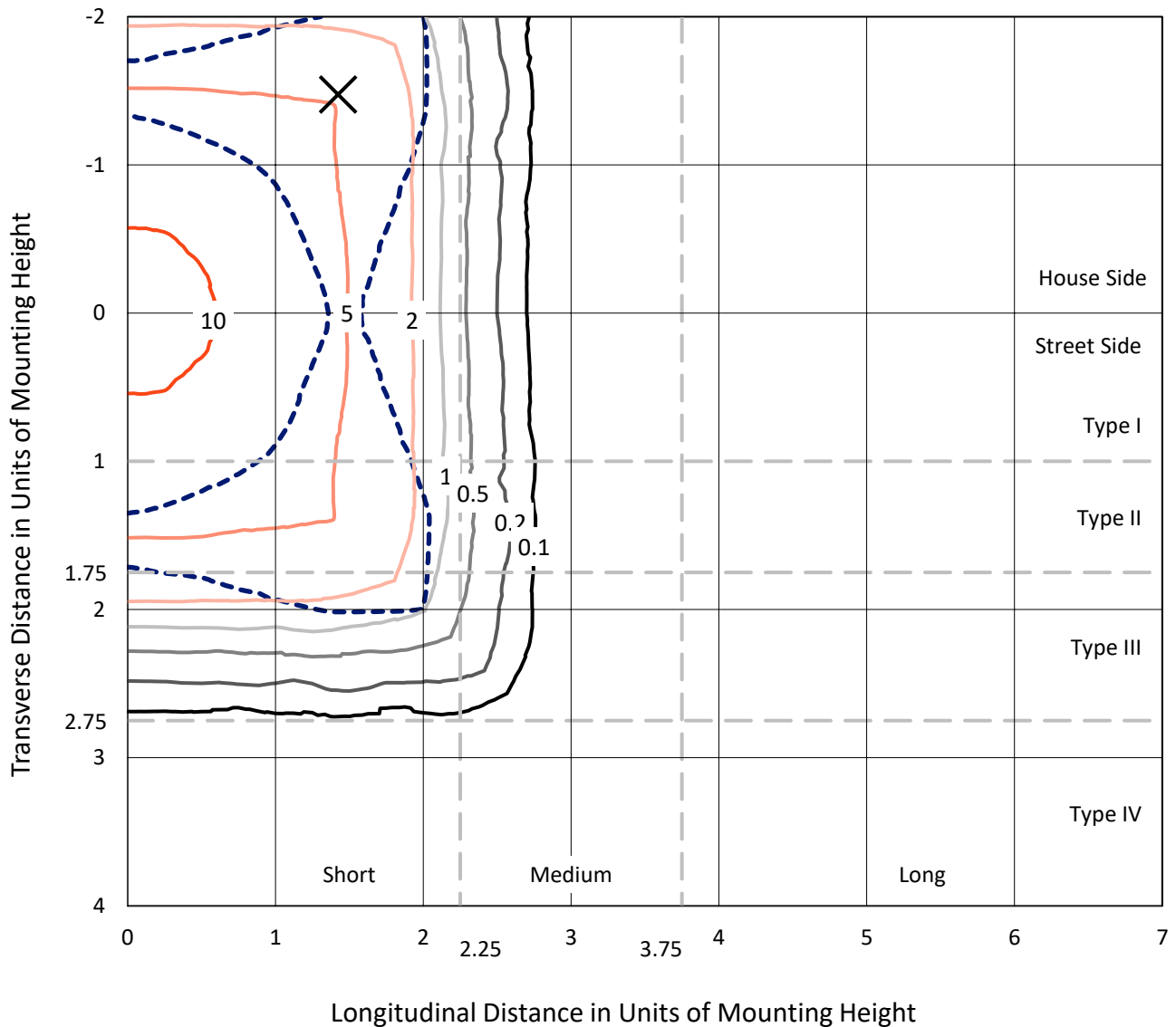
Lumens per Lamp: N/A
Luminaire Lumens: 9418.8 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

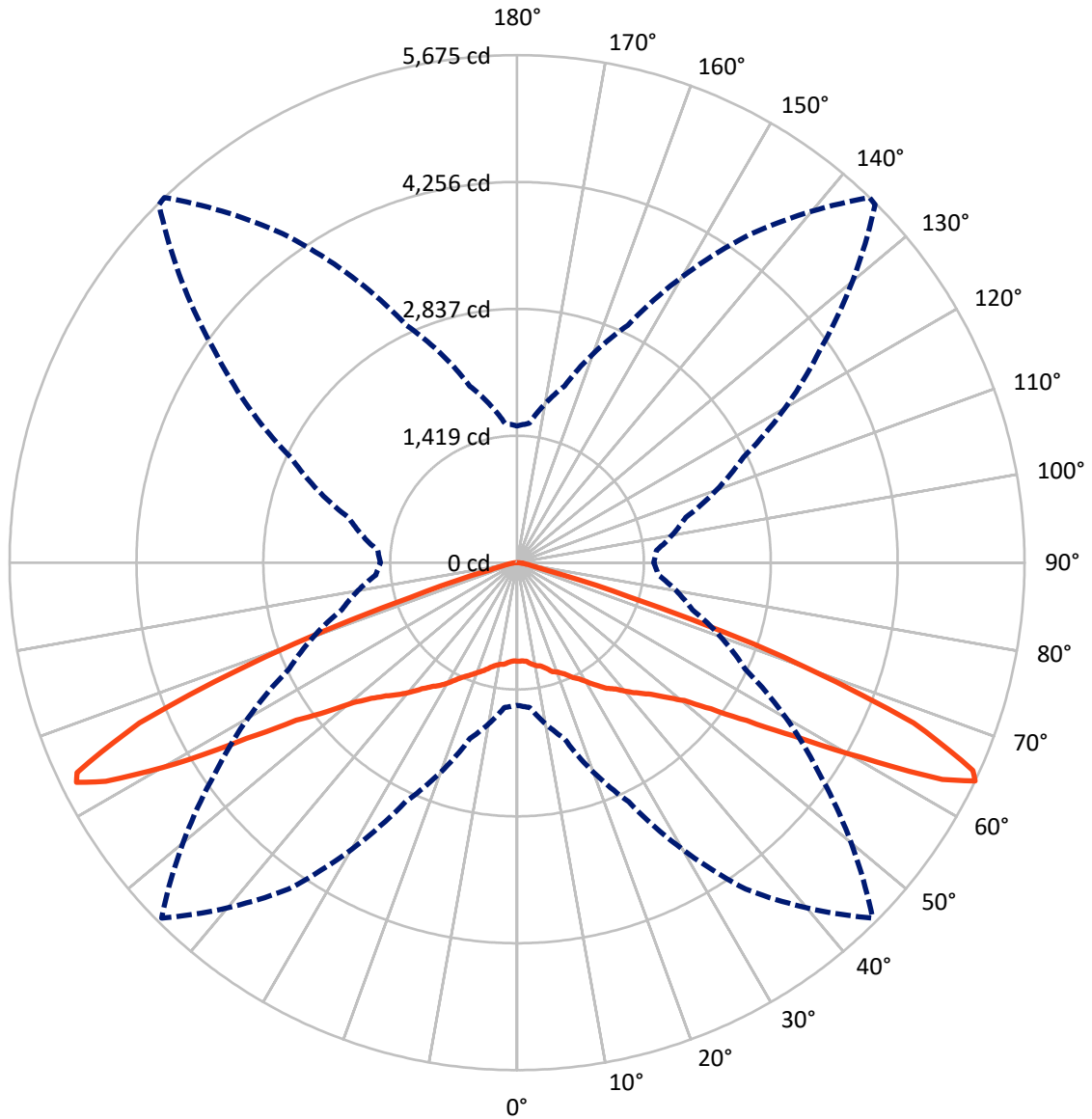
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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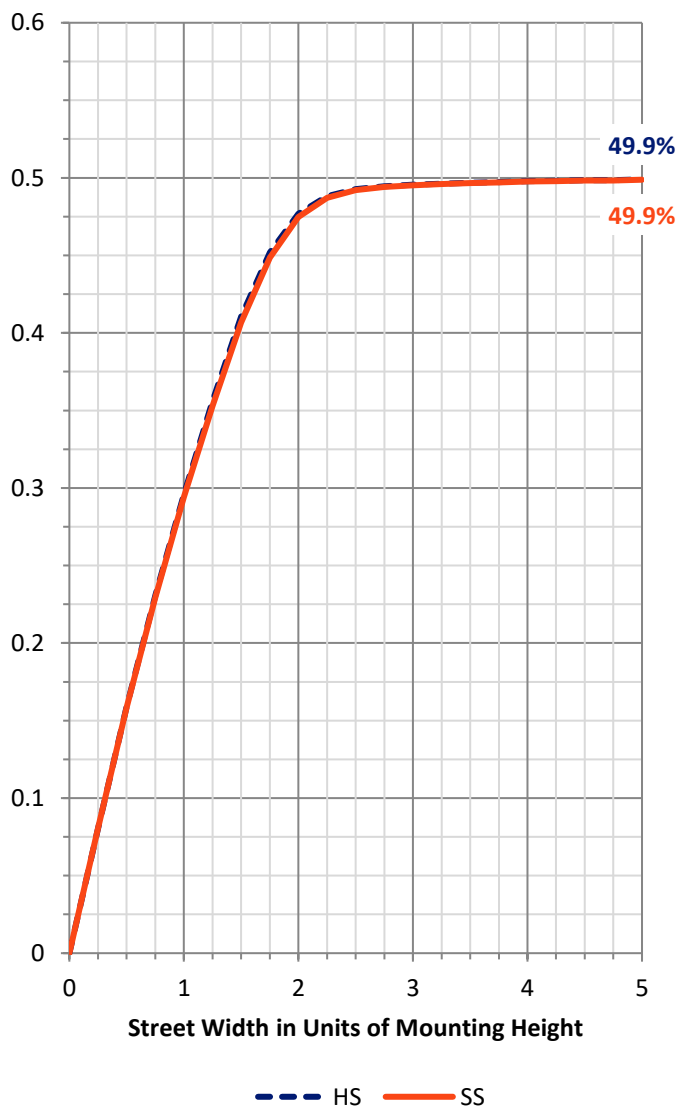
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4713.9	0.0	4713.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4704.9	0.0	4704.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9418.8	0.0	9418.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.2
10°-20°	349.2	3.7
20°-30°	656.3	7.0
30°-40°	1082.4	11.5
40°-50°	1692.8	18.0
50°-60°	2735.2	29.0
60°-70°	2462.8	26.1
70°-80°	291.7	3.1
80°-90°	39.9	0.4
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°	9418.8	100.0
0°-180°	9418.8	100.0

Coefficient of Utilization



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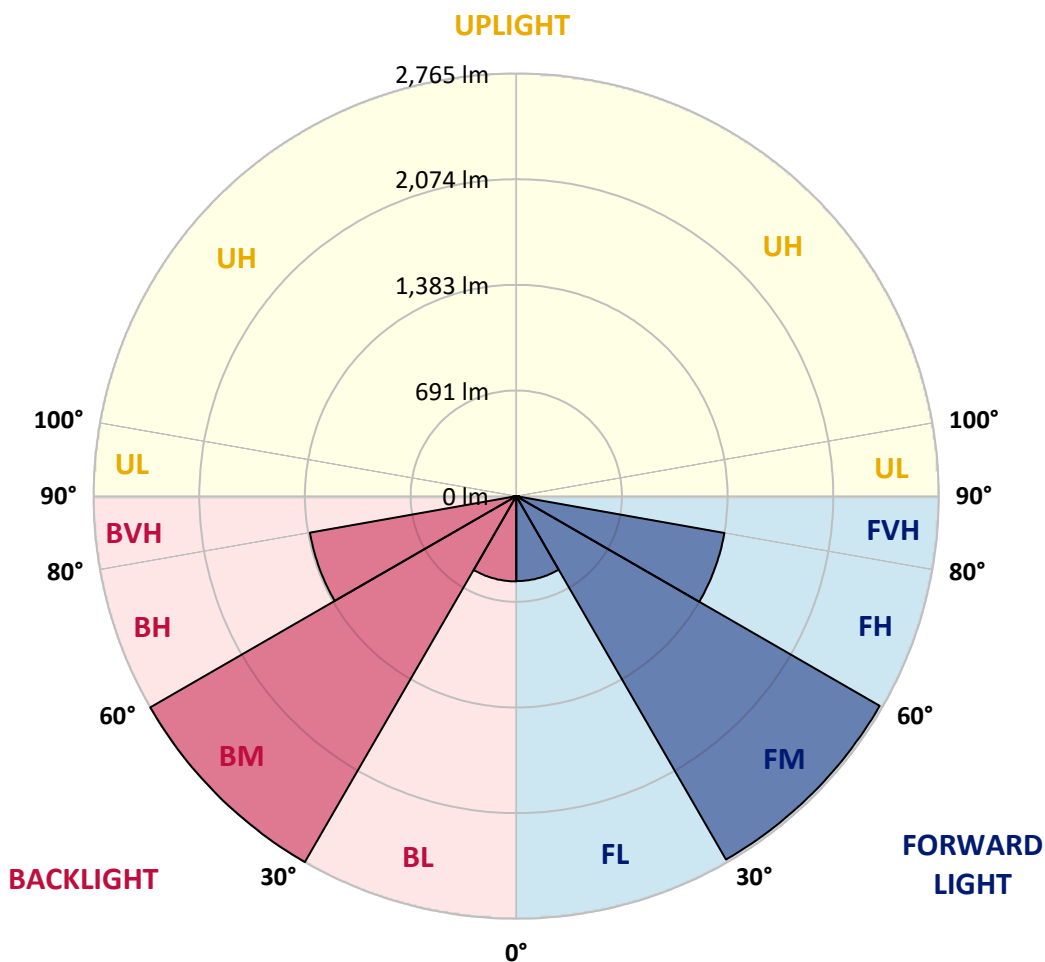
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.9	5.9			
FM (30°-60°)	2745.3	29.1			
FH (60°-80°)	1383.3	14.7			G1/1800
FVH (80°-90°)	20.5	0.2			G1/100
BL (0°-30°)	558.0	5.9	B2/1000		
BM (30°-60°)	2765.1	29.4	B3/5000		
BH (60°-80°)	1371.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	19.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1089.8	1092.0	1111.4	1103.8	1110.3	1098.4	1107.1	1125.4	1103.8	1120.0	1125.4
5°	1101.7	1104.9	1104.9	1112.5	1116.8	1114.6	1120.0	1112.5	1133.0	1124.4	1137.3
7.5°	1144.9	1139.5	1130.8	1137.3	1138.4	1143.8	1149.2	1158.9	1155.7	1148.1	1161.1
10°	1152.4	1148.1	1161.1	1162.2	1156.8	1152.4	1157.8	1157.8	1167.6	1169.7	1169.7
12.5°	1165.4	1169.7	1168.6	1177.3	1178.4	1175.1	1183.8	1200.0	1195.6	1198.9	1191.3
15°	1215.1	1209.7	1208.6	1217.2	1231.3	1210.8	1225.9	1224.8	1220.5	1227.0	1209.7
17.5°	1258.3	1241.0	1248.6	1262.6	1257.2	1261.5	1281.0	1263.7	1268.0	1260.4	1255.0
20°	1296.1	1282.0	1283.1	1288.5	1288.5	1301.5	1309.0	1302.6	1298.2	1297.2	1299.3
22.5°	1338.2	1322.0	1323.1	1345.8	1353.3	1349.0	1343.6	1354.4	1356.6	1347.9	1357.6
25°	1369.5	1386.8	1392.2	1403.0	1386.8	1398.7	1394.4	1414.9	1427.9	1410.6	1422.5
27.5°	1451.6	1444.1	1458.1	1457.0	1470.0	1458.1	1465.7	1472.1	1477.5	1478.6	1473.2
30°	1525.1	1528.3	1514.3	1552.1	1521.8	1541.3	1554.2	1557.5	1563.9	1563.9	1547.7
32.5°	1602.8	1596.3	1619.0	1610.4	1605.0	1620.1	1606.1	1650.3	1624.4	1639.5	1621.2
35°	1690.3	1690.3	1699.0	1722.7	1690.3	1680.6	1706.5	1724.9	1724.9	1697.9	1704.4
37.5°	1788.6	1780.0	1790.8	1821.0	1796.2	1763.8	1811.3	1818.8	1813.4	1805.9	1792.9
40°	1857.7	1855.6	1877.2	1917.1	1881.5	1875.0	1883.6	1904.2	1910.6	1918.2	1900.9
42.5°	1974.4	1984.1	2046.7	2037.0	2007.9	1985.2	1983.0	2059.7	2041.3	2021.9	2012.2
45°	2147.2	2138.5	2170.9	2172.0	2134.2	2084.5	2095.3	2165.5	2196.9	2153.7	2169.9
47.5°	2284.3	2288.7	2311.4	2357.8	2270.3	2218.5	2258.4	2371.8	2362.1	2345.9	2361.0
50°	2468.0	2487.4	2558.7	2542.5	2464.7	2401.0	2488.5	2595.4	2607.3	2547.9	2537.1
52.5°	2721.8	2752.0	2790.9	2803.9	2729.3	2706.7	2712.1	2844.9	2815.7	2758.5	2721.8
55°	2944.3	2958.3	3029.6	3136.5	3131.1	3022.0	3084.7	3134.4	3015.6	2897.8	2907.5
57.5°	3039.3	3045.8	3244.5	3458.4	3585.8	3610.7	3539.4	3372.0	3089.0	2862.2	2848.1
60°	2802.8	2864.3	3104.1	3586.9	4169.1	4456.4	3982.2	3399.0	2917.3	2641.9	2621.3
62.5°	2240.1	2243.3	2599.7	3332.0	4532.0	5284.8	4151.8	3145.2	2459.3	2147.2	2065.1
64°	1595.3	1625.5	2034.9	2949.7	4456.4	5621.8	4131.3	2813.6	2027.3	1584.5	1527.2
65°	1144.9	1187.0	1582.3	2560.8	4279.2	5581.8	4069.7	2528.4	1639.5	1209.7	1151.4
67.5°	421.2	438.5	621.0	1281.0	3072.8	4756.6	3225.1	1390.1	720.4	513.0	461.2
70°	195.5	196.6	230.1	423.4	1343.6	3180.8	1539.1	521.7	271.1	214.9	199.8
72.5°	143.6	146.9	160.9	195.5	395.3	1346.8	505.5	213.9	158.8	140.4	137.2
75°	116.6	118.8	123.1	141.5	182.5	360.7	205.2	148.0	126.4	113.4	109.1
77.5°	89.6	89.6	99.4	108.0	121.0	168.5	136.1	117.7	102.6	89.6	86.4
80°	64.8	65.9	77.8	84.2	82.1	111.2	98.3	97.2	84.2	70.2	64.8
82.5°	37.8	41.0	56.2	60.5	58.3	65.9	71.3	75.6	65.9	48.6	44.3
85°	21.6	22.7	32.4	33.5	33.5	31.3	41.0	45.4	44.3	30.2	27.0
87.5°	6.5	6.5	8.6	8.6	9.7	10.8	16.2	19.4	21.6	15.1	14.0
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°	136°	145°	155°	165°	175°	180°
0°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8
2.5°	1120.0	1103.8	1104.9	1109.2	1095.2	1100.6	1116.8	1104.9	1101.7	1095.2	1092.0
5°	1114.6	1131.9	1125.4	1127.6	1124.4	1109.2	1107.1	1116.8	1122.2	1112.5	1131.9
7.5°	1152.4	1144.9	1136.2	1139.5	1131.9	1144.9	1153.5	1134.1	1143.8	1138.4	1127.6
10°	1174.0	1160.0	1166.5	1164.3	1158.9	1171.9	1163.2	1161.1	1152.4	1140.6	1157.8
12.5°	1181.6	1197.8	1208.6	1190.2	1193.5	1187.0	1181.6	1181.6	1171.9	1168.6	1171.9
15°	1215.1	1229.1	1224.8	1238.8	1220.5	1227.0	1233.4	1217.2	1225.9	1202.1	1220.5
17.5°	1276.6	1264.8	1279.9	1261.5	1268.0	1281.0	1260.4	1260.4	1266.9	1254.0	1237.8
20°	1315.5	1310.1	1304.7	1305.8	1295.0	1306.9	1300.4	1297.2	1287.4	1291.8	1300.4
22.5°	1352.2	1344.7	1346.8	1350.1	1357.6	1352.2	1349.0	1352.2	1328.5	1350.1	1319.8
25°	1397.6	1418.1	1411.7	1425.7	1404.1	1418.1	1417.1	1396.5	1409.5	1400.9	1394.4
27.5°	1473.2	1462.4	1472.1	1454.9	1470.0	1471.1	1458.1	1492.7	1477.5	1475.4	1471.1
30°	1570.4	1562.9	1556.4	1546.7	1558.5	1548.8	1559.6	1562.9	1548.8	1538.0	1517.5
32.5°	1625.5	1646.0	1653.6	1629.8	1630.9	1636.3	1626.6	1616.9	1625.5	1628.7	1625.5
35°	1703.3	1722.7	1727.0	1708.7	1699.0	1726.0	1706.5	1738.9	1710.8	1711.9	1682.7
37.5°	1794.0	1799.4	1836.1	1815.6	1807.0	1794.0	1829.6	1825.3	1831.8	1780.0	1805.9
40°	1896.6	1916.0	1936.6	1884.7	1883.6	1895.5	1893.4	1918.2	1906.3	1898.8	1880.4
42.5°	2008.9	2050.0	2053.2	2018.7	1997.0	1994.9	2005.7	2060.8	2061.9	2012.2	1990.6
45°	2158.0	2203.3	2191.5	2124.5	2100.7	2097.5	2150.4	2174.2	2194.7	2175.3	2156.9
47.5°	2343.8	2374.0	2365.4	2303.8	2227.1	2248.7	2300.5	2375.1	2353.5	2327.6	2305.9
50°	2542.5	2578.1	2559.8	2498.2	2424.8	2424.8	2488.5	2583.5	2577.0	2526.3	2506.8
52.5°	2762.8	2814.7	2856.8	2769.3	2707.7	2717.5	2817.9	2852.5	2836.3	2800.6	2784.4
55°	2927.0	3026.4	3112.8	3117.1	3120.3	3119.2	3145.2	3179.7	3064.2	3006.9	2948.6
57.5°	2887.0	3075.0	3370.9	3571.8	3631.2	3662.5	3653.9	3494.0	3220.8	3032.8	3052.3
60°	2601.9	2908.6	3386.0	4030.8	4462.8	4419.6	4262.0	3630.1	3134.4	2816.8	2776.9
62.5°	2075.9	2445.3	3132.2	4160.4	5350.7	5337.7	4512.5	3315.8	2611.6	2209.8	2185.0
64°	1563.9	1952.8	2794.1	4126.9	5661.7	5674.7	4448.8	2929.2	2043.5	1563.9	1526.1
65°	1196.7	1557.5	2462.6	4057.8	5594.8	5602.3	4271.7	2529.5	1553.1	1110.3	1069.3
67.5°	476.3	663.2	1336.0	3077.1	4804.2	4783.6	3048.0	1223.7	594.0	386.7	379.1
70°	203.1	252.7	468.8	1458.1	3216.4	3157.0	1312.3	397.5	220.3	184.7	183.6
72.5°	139.3	154.5	200.9	450.4	1337.1	1305.8	373.7	184.7	150.1	138.2	138.2
75°	112.3	123.1	145.8	189.0	354.3	341.3	176.1	136.1	119.9	111.2	110.2
77.5°	87.5	98.3	114.5	130.7	162.0	160.9	117.7	102.6	92.9	86.4	84.2
80°	69.1	79.9	90.7	92.9	105.8	103.7	79.9	81.0	75.6	62.6	61.6
82.5°	47.5	64.8	72.4	65.9	62.6	62.6	57.2	57.2	52.9	38.9	35.6
85°	29.2	43.2	45.4	38.9	29.2	29.2	31.3	30.2	28.1	20.5	19.4
87.5°	15.1	20.5	18.4	15.1	9.7	9.7	8.6	6.5	6.5	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)