

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: P478777

Luminaire Tested: **IFLD-S-SA2C-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

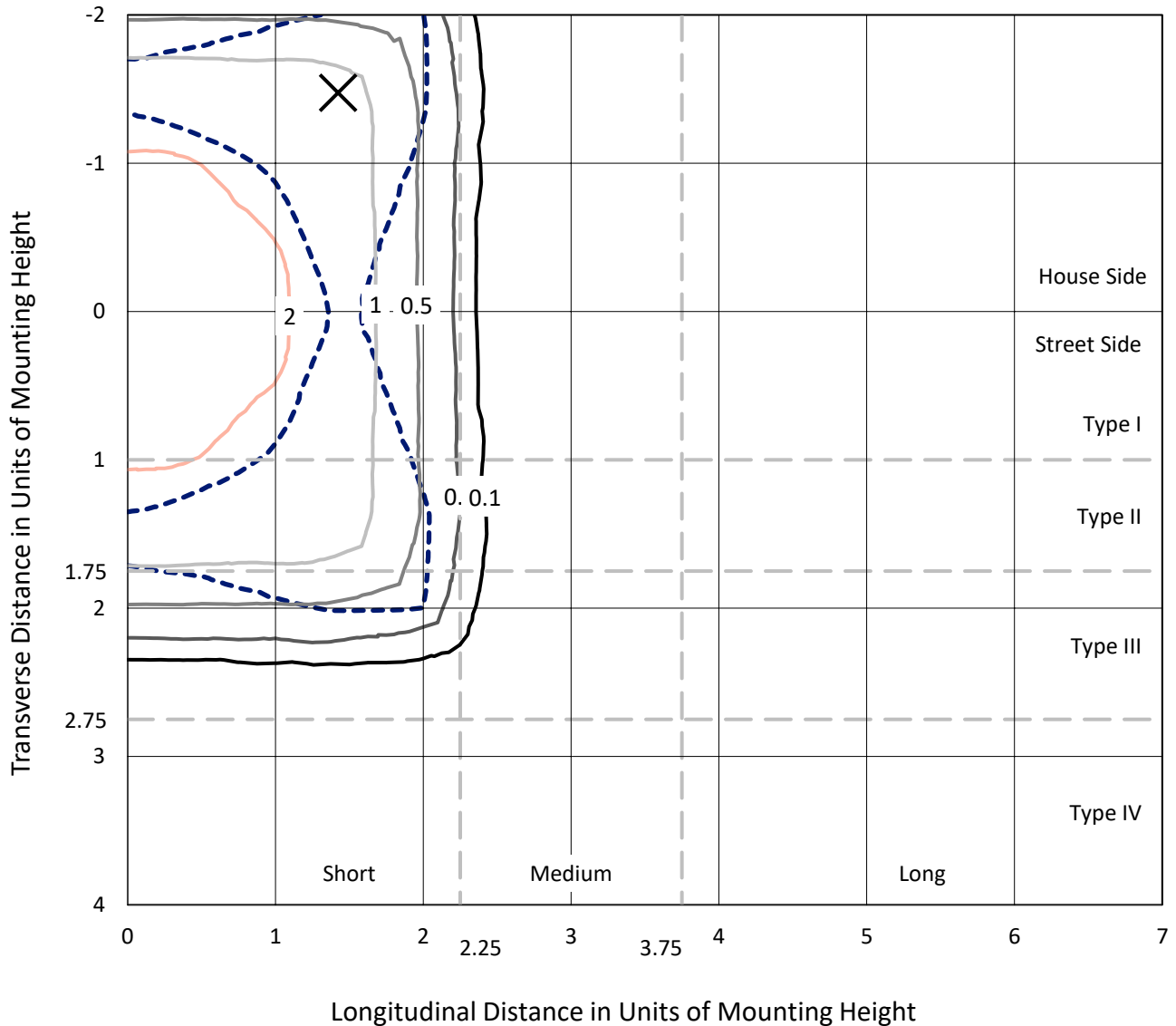
Lumens per Lamp: N/A
Luminaire Lumens: 10442.1 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 108.2
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

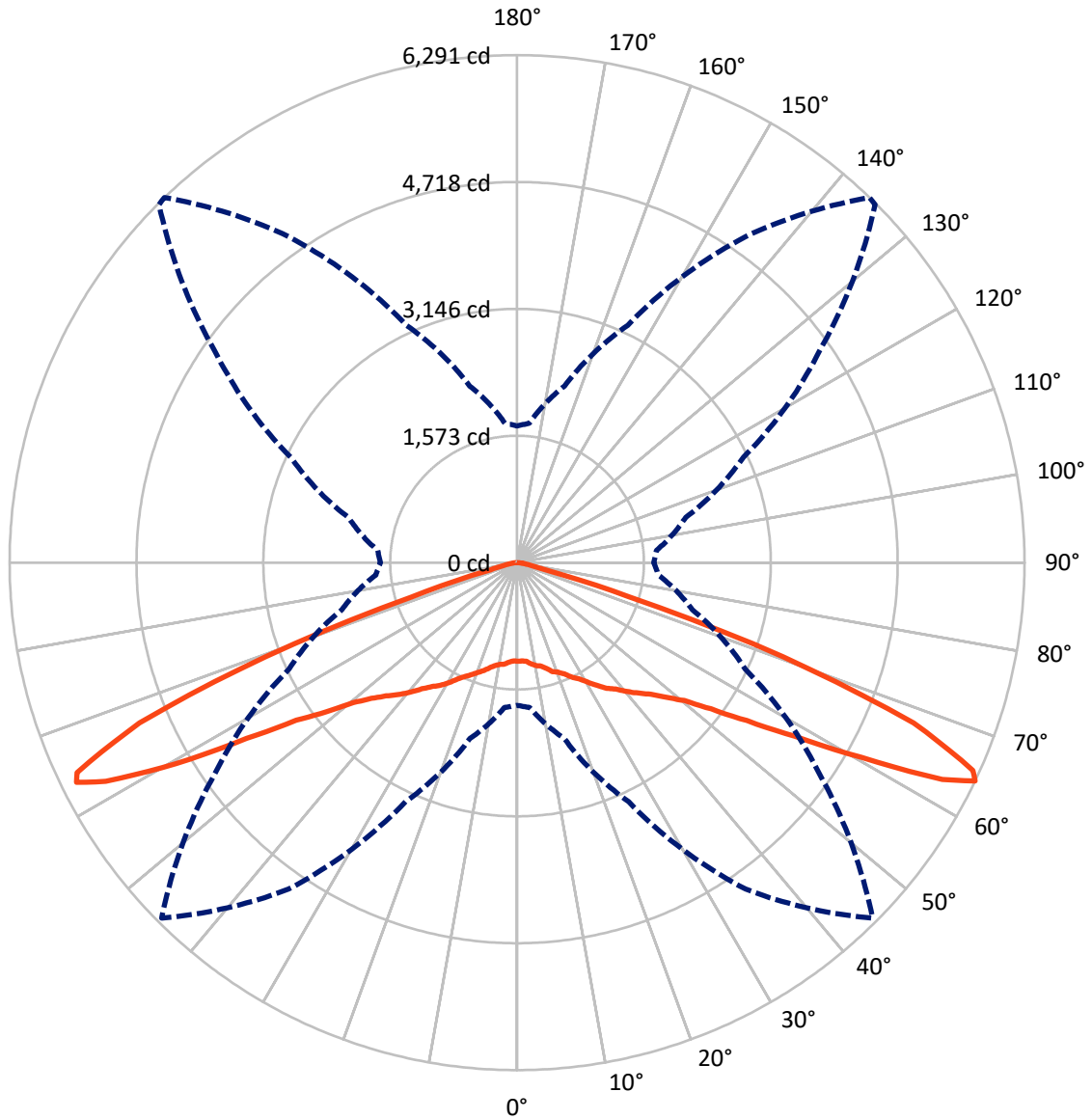
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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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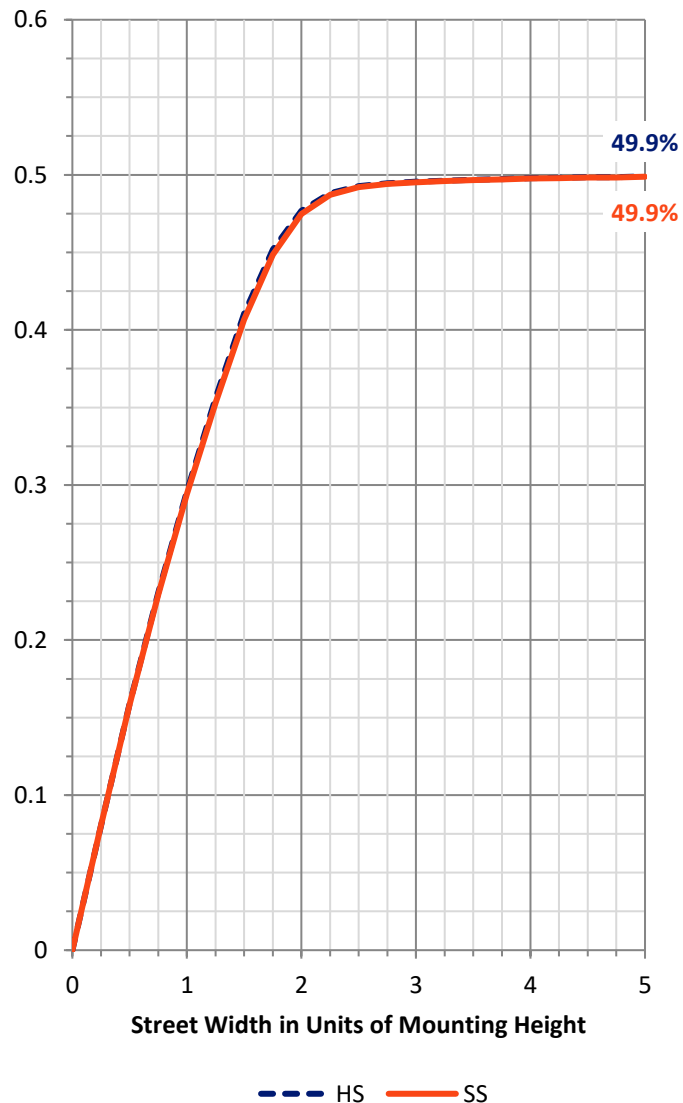
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5226.0	0.0	5226.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5216.1	0.0	5216.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10442.1	0.0	10442.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.2
10°-20°	387.2	3.7
20°-30°	727.6	7.0
30°-40°	1200.0	11.5
40°-50°	1876.7	18.0
50°-60°	3032.3	29.0
60°-70°	2730.4	26.1
70°-80°	323.4	3.1
80°-90°	44.3	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°	10442.1	100.0
0°-180°	10442.1	100.0

Coefficient of Utilization



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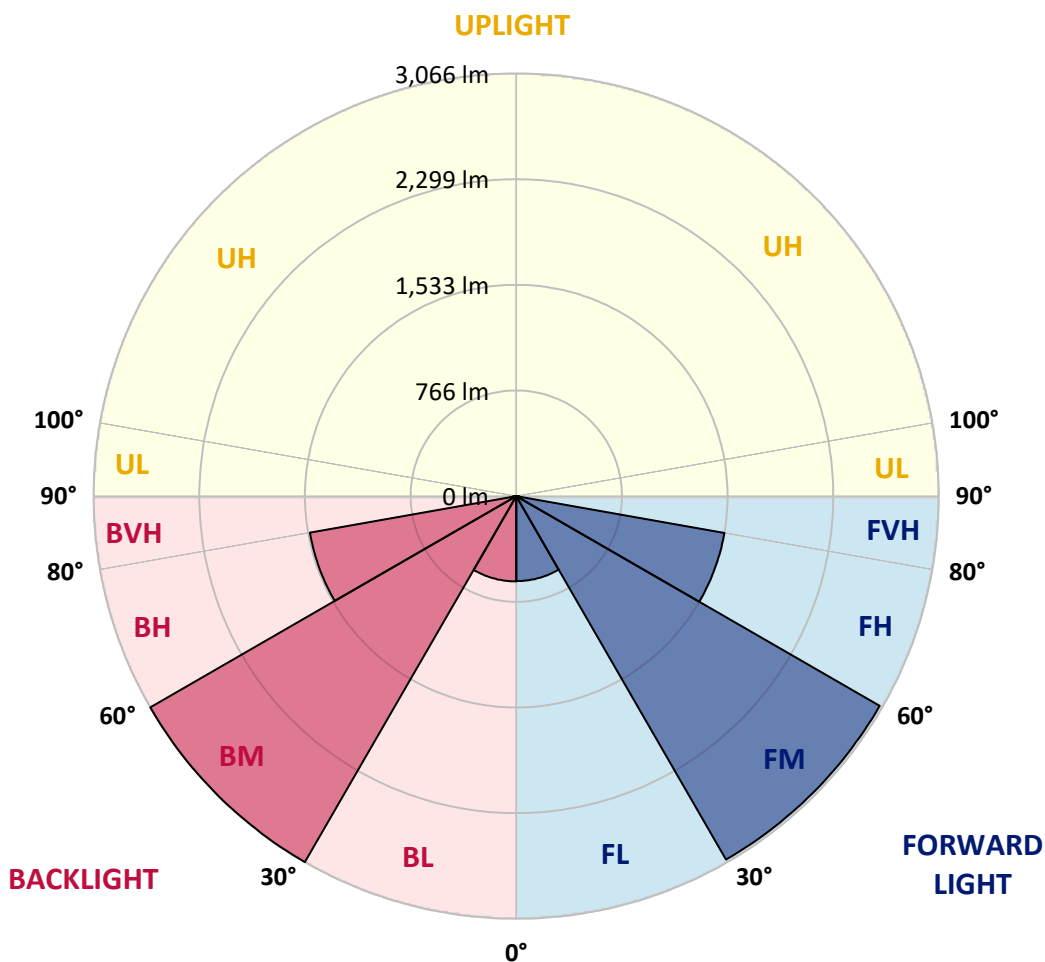
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	616.3	5.9			
FM (30°-60°)	3043.5	29.1			
FH (60°-80°)	1533.5	14.7			G1/1800
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	618.7	5.9	B2/1000		
BM (30°-60°)	3065.5	29.4	B3/5000		
BH (60°-80°)	1520.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	21.6	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°	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6
2.5°	1208.2	1210.6	1232.1	1223.8	1230.9	1217.8	1227.3	1247.7	1223.8	1241.7	1247.7
5°	1221.4	1224.9	1224.9	1233.3	1238.1	1235.7	1241.7	1233.3	1256.1	1246.5	1260.9
7.5°	1269.3	1263.3	1253.7	1260.9	1262.1	1268.1	1274.0	1284.8	1281.2	1272.8	1287.2
10°	1277.6	1272.8	1287.2	1288.4	1282.4	1277.6	1283.6	1283.6	1294.4	1296.8	1296.8
12.5°	1292.0	1296.8	1295.6	1305.2	1306.4	1302.8	1312.4	1330.3	1325.5	1329.1	1320.7
15°	1347.1	1341.1	1339.9	1349.5	1365.0	1342.3	1359.1	1357.9	1353.1	1360.3	1341.1
17.5°	1395.0	1375.8	1384.2	1399.8	1393.8	1398.6	1420.1	1401.0	1405.8	1397.4	1391.4
20°	1436.9	1421.3	1422.5	1428.5	1428.5	1442.9	1451.3	1444.1	1439.3	1438.1	1440.5
22.5°	1483.6	1465.6	1466.8	1492.0	1500.4	1495.6	1489.6	1501.6	1503.9	1494.4	1505.1
25°	1518.3	1537.5	1543.5	1555.4	1537.5	1550.6	1545.9	1568.6	1583.0	1563.8	1577.0
27.5°	1609.3	1600.9	1616.5	1615.3	1629.7	1616.5	1624.9	1632.1	1638.1	1639.3	1633.3
30°	1690.7	1694.3	1678.8	1720.7	1687.1	1708.7	1723.1	1726.7	1733.8	1733.8	1715.9
32.5°	1777.0	1769.8	1794.9	1785.3	1779.3	1796.1	1780.5	1829.6	1800.9	1817.7	1797.3
35°	1873.9	1873.9	1883.5	1909.9	1873.9	1863.2	1891.9	1912.3	1912.3	1882.3	1889.5
37.5°	1982.9	1973.3	1985.3	2018.8	1991.3	1955.4	2008.1	2016.4	2010.4	2002.1	1987.7
40°	2059.5	2057.1	2081.1	2125.4	2085.9	2078.7	2088.3	2111.0	2118.2	2126.6	2107.4
42.5°	2188.9	2199.6	2269.1	2258.3	2226.0	2200.8	2198.4	2283.5	2263.1	2241.5	2230.8
45°	2380.4	2370.9	2406.8	2408.0	2366.1	2311.0	2323.0	2400.8	2435.5	2387.6	2405.6
47.5°	2532.5	2537.3	2562.5	2613.9	2517.0	2459.5	2503.8	2629.5	2618.7	2600.8	2617.5
50°	2736.1	2757.6	2836.7	2818.7	2732.5	2661.8	2758.8	2877.4	2890.5	2824.7	2812.7
52.5°	3017.5	3051.0	3094.1	3108.5	3025.9	3000.7	3006.7	3154.0	3121.6	3058.2	3017.5
55°	3264.1	3279.7	3358.7	3477.3	3471.3	3350.3	3419.8	3474.9	3343.2	3212.6	3223.4
57.5°	3369.5	3376.7	3597.0	3834.1	3975.4	4002.9	3923.9	3738.3	3424.6	3173.1	3157.6
60°	3107.3	3175.5	3441.4	3976.6	4622.0	4940.5	4414.8	3768.2	3234.2	2928.9	2906.1
62.5°	2483.4	2487.0	2882.2	3694.0	5024.3	5858.9	4602.8	3486.9	2726.5	2380.4	2289.4
64°	1768.6	1802.1	2255.9	3270.1	4940.5	6232.5	4580.1	3119.2	2247.5	1756.6	1693.1
65°	1269.3	1316.0	1754.2	2839.1	4744.1	6188.2	4511.8	2803.1	1817.7	1341.1	1276.4
67.5°	467.0	486.1	688.5	1420.1	3406.6	5273.4	3575.5	1541.1	798.7	568.8	511.3
70°	216.7	217.9	255.0	469.4	1489.6	3526.4	1706.3	578.3	300.5	238.3	221.5
72.5°	159.3	162.8	178.4	216.7	438.3	1493.2	560.4	237.1	176.0	155.7	152.1
75°	129.3	131.7	136.5	156.9	202.4	399.9	227.5	164.0	140.1	125.7	120.9
77.5°	99.4	99.4	110.2	119.7	134.1	186.8	150.9	130.5	113.8	99.4	95.8
80°	71.8	73.0	86.2	93.4	91.0	123.3	109.0	107.8	93.4	77.8	71.8
82.5°	41.9	45.5	62.3	67.1	64.7	73.0	79.0	83.8	73.0	53.9	49.1
85°	23.9	25.1	35.9	37.1	37.1	34.7	45.5	50.3	49.1	33.5	29.9
87.5°	7.2	7.2	9.6	9.6	10.8	12.0	18.0	21.6	23.9	16.8	15.6
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°	136°	145°	155°	165°	175°	180°
0°	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6	1222.6
2.5°	1241.7	1223.8	1224.9	1229.7	1214.2	1220.2	1238.1	1224.9	1221.4	1214.2	1210.6
5°	1235.7	1254.9	1247.7	1250.1	1246.5	1229.7	1227.3	1238.1	1244.1	1233.3	1254.9
7.5°	1277.6	1269.3	1259.7	1263.3	1254.9	1269.3	1278.8	1257.3	1268.1	1262.1	1250.1
10°	1301.6	1286.0	1293.2	1290.8	1284.8	1299.2	1289.6	1287.2	1277.6	1264.5	1283.6
12.5°	1310.0	1327.9	1339.9	1319.5	1323.1	1316.0	1310.0	1310.0	1299.2	1295.6	1299.2
15°	1347.1	1362.7	1357.9	1373.4	1353.1	1360.3	1367.4	1349.5	1359.1	1332.7	1353.1
17.5°	1415.3	1402.2	1418.9	1398.6	1405.8	1420.1	1397.4	1397.4	1404.6	1390.2	1372.2
20°	1458.4	1452.5	1446.5	1447.7	1435.7	1448.9	1441.7	1438.1	1427.3	1432.1	1441.7
22.5°	1499.2	1490.8	1493.2	1496.8	1505.1	1499.2	1495.6	1499.2	1472.8	1496.8	1463.2
25°	1549.4	1572.2	1565.0	1580.6	1556.6	1572.2	1571.0	1548.2	1562.6	1553.0	1545.9
27.5°	1633.3	1621.3	1632.1	1612.9	1629.7	1630.9	1616.5	1654.8	1638.1	1635.7	1630.9
30°	1741.0	1732.7	1725.5	1714.7	1727.9	1717.1	1729.1	1732.7	1717.1	1705.1	1682.4
32.5°	1802.1	1824.9	1833.2	1806.9	1808.1	1814.1	1803.3	1792.5	1802.1	1805.7	1802.1
35°	1888.3	1909.9	1914.7	1894.3	1883.5	1913.5	1891.9	1927.8	1896.7	1897.9	1865.6
37.5°	1988.9	1994.9	2035.6	2012.8	2003.3	1988.9	2028.4	2023.6	2030.8	1973.3	2002.1
40°	2102.6	2124.2	2147.0	2089.5	2088.3	2101.5	2099.1	2126.6	2113.4	2105.0	2084.7
42.5°	2227.2	2272.7	2276.3	2238.0	2214.0	2211.6	2223.6	2284.7	2285.9	2230.8	2206.8
45°	2392.4	2442.7	2429.5	2355.3	2329.0	2325.4	2384.0	2410.4	2433.1	2411.6	2391.2
47.5°	2598.4	2631.9	2622.3	2554.1	2469.1	2493.0	2550.5	2633.1	2609.2	2580.4	2556.5
50°	2818.7	2858.2	2837.9	2769.6	2688.2	2688.2	2758.8	2864.2	2857.0	2800.7	2779.2
52.5°	3063.0	3120.4	3167.1	3070.2	3001.9	3012.7	3124.0	3162.4	3144.4	3104.9	3086.9
55°	3245.0	3355.1	3450.9	3455.7	3459.3	3458.1	3486.9	3525.2	3397.0	3333.6	3268.9
57.5°	3200.7	3409.0	3737.1	3959.8	4025.7	4060.4	4050.8	3873.6	3570.7	3362.3	3383.9
60°	2884.6	3224.6	3753.9	4468.7	4947.7	4899.8	4725.0	4024.5	3474.9	3122.8	3078.5
62.5°	2301.4	2710.9	3472.5	4612.4	5932.0	5917.6	5002.8	3676.0	2895.3	2449.9	2422.4
64°	1733.8	2164.9	3097.7	4575.3	6276.8	6291.2	4932.1	3247.4	2265.5	1733.8	1691.9
65°	1326.7	1726.7	2730.1	4498.7	6202.6	6211.0	4735.8	2804.3	1721.9	1230.9	1185.4
67.5°	528.1	735.2	1481.2	3411.4	5326.1	5303.3	3379.1	1356.7	658.6	428.7	420.3
70°	225.1	280.2	519.7	1616.5	3565.9	3500.0	1454.9	440.6	244.3	204.8	203.6
72.5°	154.5	171.2	222.7	499.3	1482.4	1447.7	414.3	204.8	166.4	153.3	153.3
75°	124.5	136.5	161.7	209.5	392.8	378.4	195.2	150.9	132.9	123.3	122.1
77.5°	97.0	109.0	126.9	144.9	179.6	178.4	130.5	113.8	103.0	95.8	93.4
80°	76.6	88.6	100.6	103.0	117.3	115.0	88.6	89.8	83.8	69.4	68.3
82.5°	52.7	71.8	80.2	73.0	69.4	69.4	63.5	63.5	58.7	43.1	39.5
85°	32.3	47.9	50.3	43.1	32.3	32.3	34.7	33.5	31.1	22.8	21.6
87.5°	16.8	22.8	20.4	16.8	10.8	10.8	9.6	7.2	7.2	6.0	6.0
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)