

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: P479092

Luminaire Tested: **IFLD-S-SA3A-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479092
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

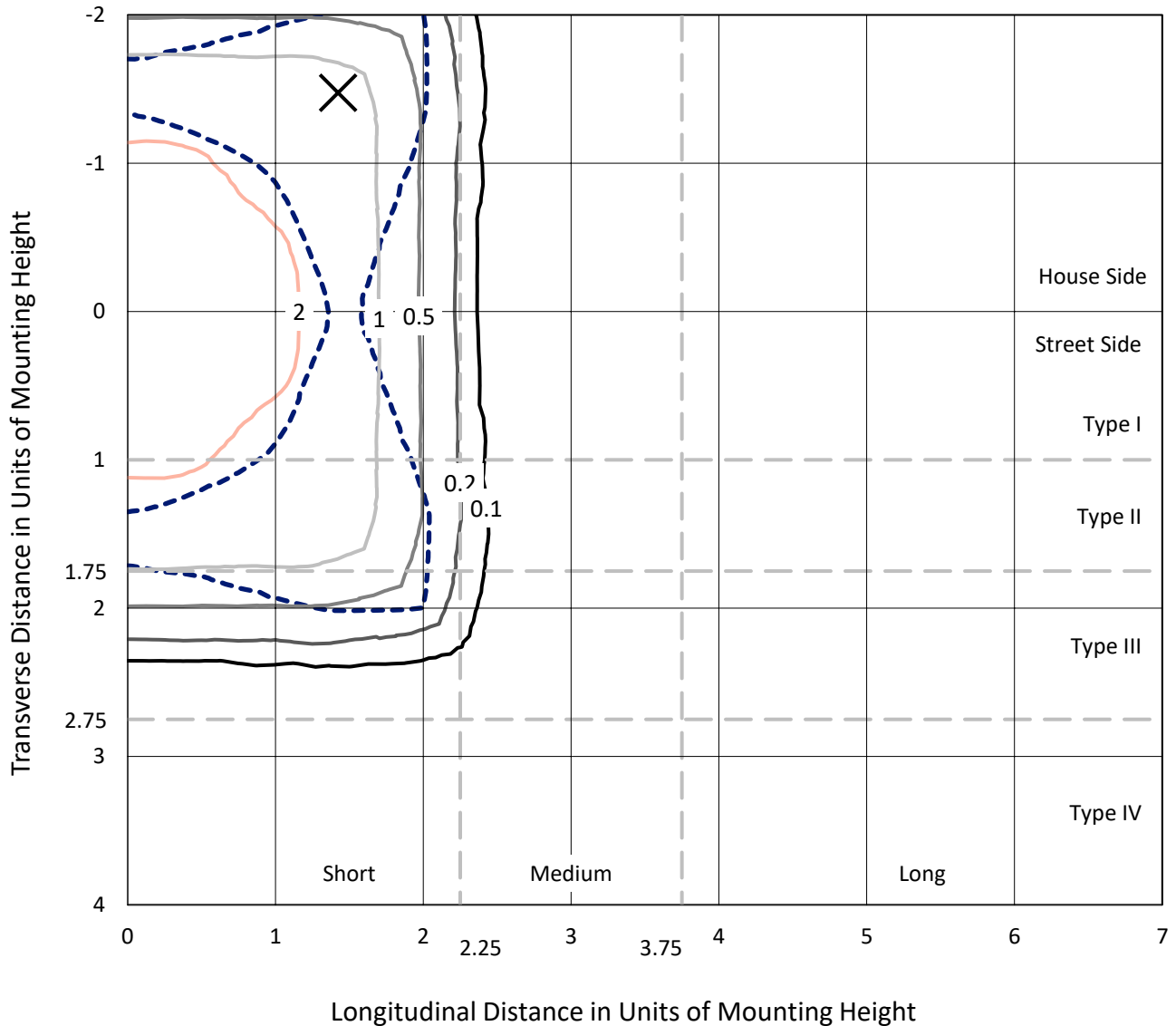
Lumens per Lamp: N/A
Luminaire Lumens: 10903.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 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

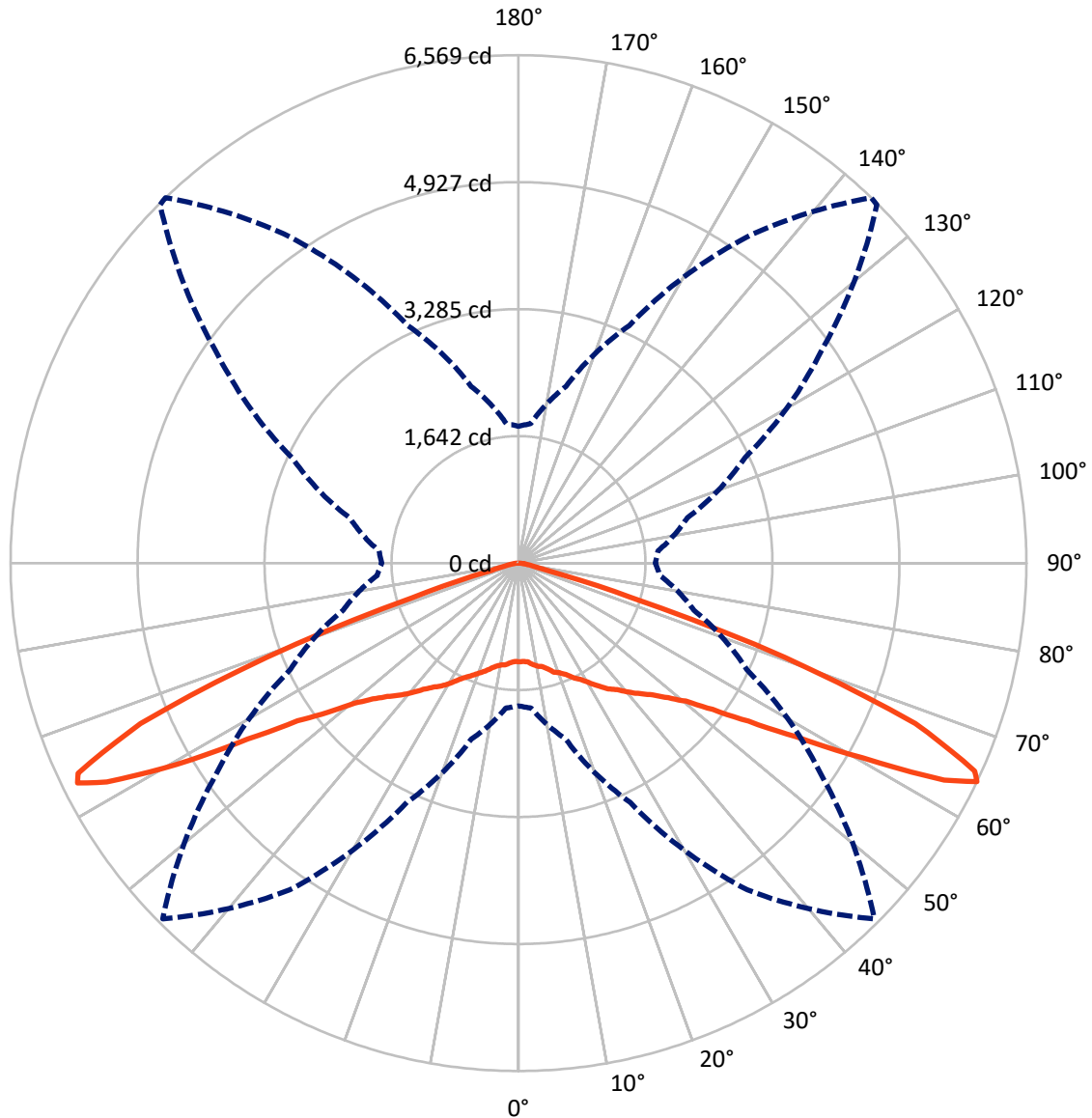
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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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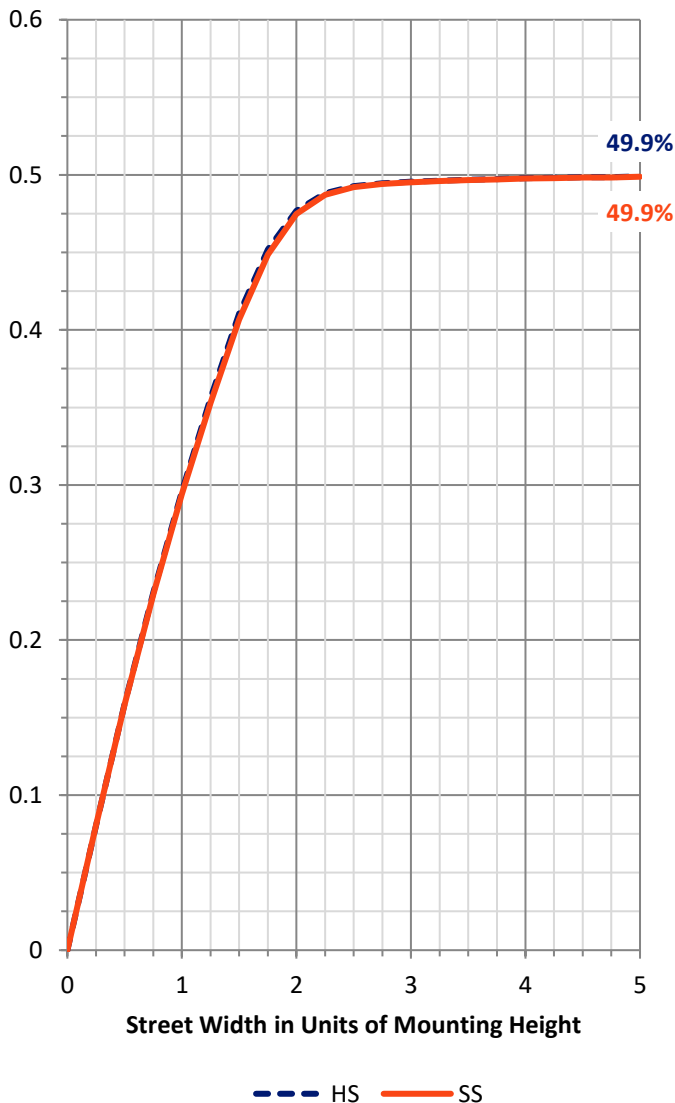
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5457.1	0.0	5457.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5446.7	0.0	5446.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10903.8	0.0	10903.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.2
10°-20°	404.3	3.7
20°-30°	759.8	7.0
30°-40°	1253.1	11.5
40°-50°	1959.7	18.0
50°-60°	3166.4	29.0
60°-70°	2851.1	26.1
70°-80°	337.7	3.1
80°-90°	46.2	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°	10903.8	100.0
0°-180°	10903.8	100.0



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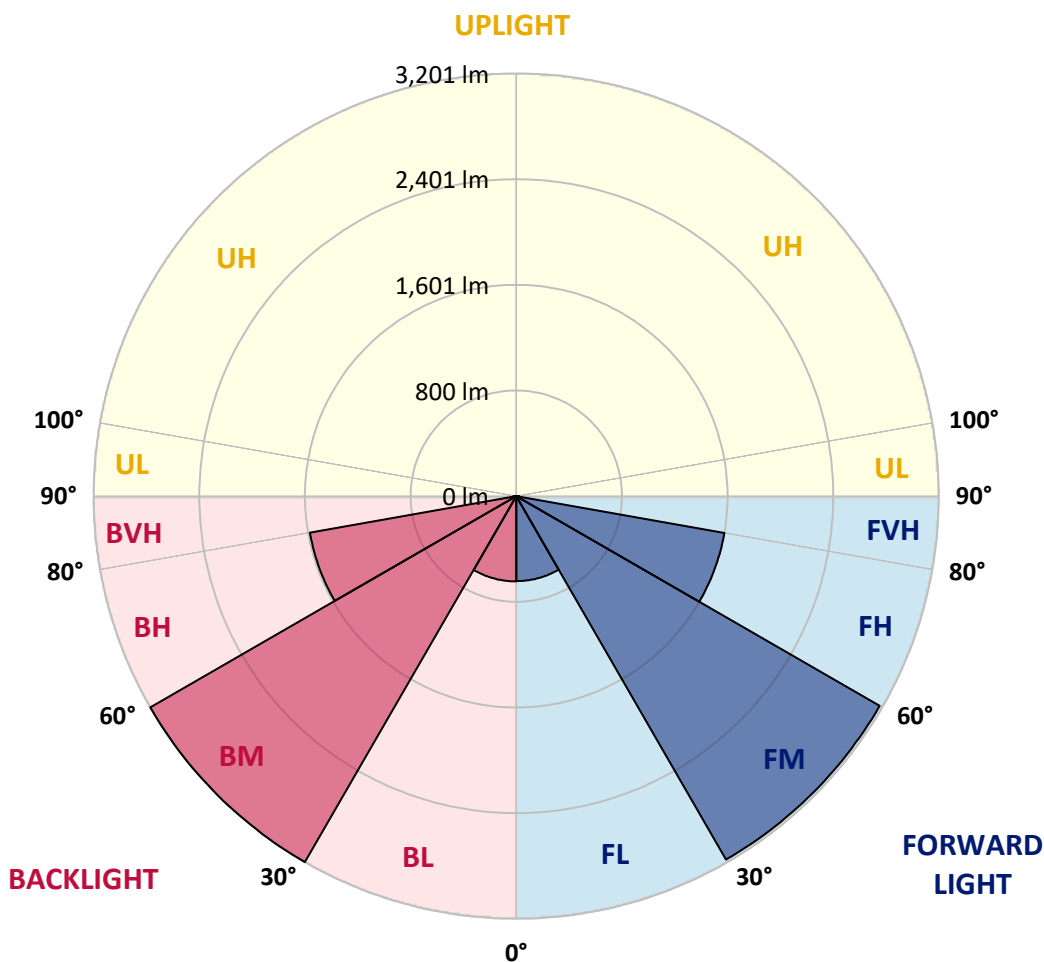
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.5	5.9			
FM (30°-60°)	3178.1	29.1			
FH (60°-80°)	1601.3	14.7			G1/1800
FVH (80°-90°)	23.7	0.2			G1/100
BL (0°-30°)	646.0	5.9	B2/1000		
BM (30°-60°)	3201.1	29.4	B3/5000		
BH (60°-80°)	1587.5	14.6	B3/2500		G1/1800
BVH (80°-90°)	22.5	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°	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6
2.5°	1261.6	1264.1	1286.6	1277.9	1285.4	1271.6	1281.6	1302.9	1277.9	1296.6	1302.9
5°	1275.4	1279.1	1279.1	1287.9	1292.9	1290.4	1296.6	1287.9	1311.6	1301.6	1316.6
7.5°	1325.4	1319.1	1309.1	1316.6	1317.9	1324.1	1330.4	1341.6	1337.9	1329.1	1344.1
10°	1334.1	1329.1	1344.1	1345.4	1339.1	1334.1	1340.4	1340.4	1351.6	1354.1	1354.1
12.5°	1349.1	1354.1	1352.9	1362.9	1364.1	1360.4	1370.4	1389.1	1384.1	1387.9	1379.1
15°	1406.6	1400.4	1399.1	1409.1	1425.4	1401.6	1419.2	1417.9	1412.9	1420.4	1400.4
17.5°	1456.7	1436.7	1445.4	1461.7	1455.4	1460.4	1482.9	1462.9	1467.9	1459.2	1452.9
20°	1500.4	1484.2	1485.4	1491.7	1491.7	1506.7	1515.4	1507.9	1502.9	1501.7	1504.2
22.5°	1549.2	1530.4	1531.7	1557.9	1566.7	1561.7	1555.4	1567.9	1570.4	1560.4	1571.7
25°	1585.4	1605.5	1611.7	1624.2	1605.5	1619.2	1614.2	1638.0	1653.0	1633.0	1646.7
27.5°	1680.5	1671.7	1688.0	1686.7	1701.7	1688.0	1696.7	1704.2	1710.5	1711.7	1705.5
30°	1765.5	1769.3	1753.0	1796.8	1761.7	1784.3	1799.3	1803.0	1810.5	1810.5	1791.8
32.5°	1855.5	1848.0	1874.3	1864.3	1858.0	1875.5	1859.3	1910.5	1880.5	1898.0	1876.8
35°	1956.8	1956.8	1966.8	1994.3	1956.8	1945.6	1975.6	1996.8	1996.8	1965.6	1973.1
37.5°	2070.6	2060.6	2073.1	2108.1	2079.3	2041.8	2096.8	2105.6	2099.3	2090.6	2075.6
40°	2150.6	2148.1	2173.1	2219.4	2178.1	2170.6	2180.6	2204.4	2211.9	2220.6	2200.6
42.5°	2285.6	2296.9	2369.4	2358.2	2324.4	2298.2	2295.7	2384.4	2363.2	2340.7	2329.4
45°	2485.7	2475.7	2513.2	2514.5	2470.7	2413.2	2425.7	2507.0	2543.2	2493.2	2512.0
47.5°	2644.5	2649.5	2675.8	2729.5	2628.2	2568.2	2614.5	2745.8	2734.5	2715.8	2733.3
50°	2857.1	2879.6	2962.1	2943.3	2853.3	2779.5	2880.8	3004.6	3018.4	2949.6	2937.1
52.5°	3150.9	3185.9	3230.9	3245.9	3159.6	3133.4	3139.6	3293.4	3259.7	3193.4	3150.9
55°	3408.5	3424.7	3507.2	3631.0	3624.8	3498.5	3571.0	3628.5	3491.0	3354.7	3366.0
57.5°	3518.5	3526.0	3756.1	4003.6	4151.2	4179.9	4097.4	3903.6	3576.0	3313.4	3297.2
60°	3244.7	3315.9	3593.5	4152.4	4826.4	5159.0	4610.1	3934.9	3377.2	3058.4	3034.6
62.5°	2593.2	2597.0	3009.6	3857.3	5246.5	6118.0	4806.4	3641.0	2847.1	2485.7	2390.7
64°	1846.8	1881.8	2355.7	3414.7	5159.0	6508.1	4782.6	3257.2	2346.9	1834.3	1768.0
65°	1325.4	1374.1	1831.8	2964.6	4953.9	6461.8	4711.3	2927.1	1898.0	1400.4	1332.9
67.5°	487.6	507.6	719.0	1482.9	3557.3	5506.6	3733.6	1609.2	834.0	593.9	533.9
70°	226.3	227.6	266.3	490.1	1555.4	3682.3	1781.8	603.9	313.8	248.8	231.3
72.5°	166.3	170.0	186.3	226.3	457.6	1559.2	585.2	247.6	183.8	162.5	158.8
75°	135.0	137.5	142.5	163.8	211.3	417.6	237.6	171.3	146.3	131.3	126.3
77.5°	103.8	103.8	115.0	125.0	140.0	195.1	157.5	136.3	118.8	103.8	100.0
80°	75.0	76.3	90.0	97.5	95.0	128.8	113.8	112.5	97.5	81.3	75.0
82.5°	43.8	47.5	65.0	70.0	67.5	76.3	82.5	87.5	76.3	56.3	51.3
85°	25.0	26.3	37.5	38.8	38.8	36.3	47.5	52.5	51.3	35.0	31.3
87.5°	7.5	7.5	10.0	10.0	11.3	12.5	18.8	22.5	25.0	17.5	16.3
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°	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6	1276.6
2.5°	1296.6	1277.9	1279.1	1284.1	1267.9	1274.1	1292.9	1279.1	1275.4	1267.9	1264.1
5°	1290.4	1310.4	1302.9	1305.4	1301.6	1284.1	1281.6	1292.9	1299.1	1287.9	1310.4
7.5°	1334.1	1325.4	1315.4	1319.1	1310.4	1325.4	1335.4	1312.9	1324.1	1317.9	1305.4
10°	1359.1	1342.9	1350.4	1347.9	1341.6	1356.6	1346.6	1344.1	1334.1	1320.4	1340.4
12.5°	1367.9	1386.6	1399.1	1377.9	1381.6	1374.1	1367.9	1367.9	1356.6	1352.9	1356.6
15°	1406.6	1422.9	1417.9	1434.2	1412.9	1420.4	1427.9	1409.1	1419.2	1391.6	1412.9
17.5°	1477.9	1464.2	1481.7	1460.4	1467.9	1482.9	1459.2	1459.2	1466.7	1451.7	1432.9
20°	1522.9	1516.7	1510.4	1511.7	1499.2	1512.9	1505.4	1501.7	1490.4	1495.4	1505.4
22.5°	1565.4	1556.7	1559.2	1562.9	1571.7	1565.4	1561.7	1565.4	1537.9	1562.9	1527.9
25°	1618.0	1641.7	1634.2	1650.5	1625.5	1641.7	1640.5	1616.7	1631.7	1621.7	1614.2
27.5°	1705.5	1693.0	1704.2	1684.2	1701.7	1703.0	1688.0	1728.0	1710.5	1708.0	1703.0
30°	1818.0	1809.3	1801.8	1790.5	1804.3	1793.0	1805.5	1809.3	1793.0	1780.5	1756.7
32.5°	1881.8	1905.5	1914.3	1886.8	1888.0	1894.3	1883.0	1871.8	1881.8	1885.5	1881.8
35°	1971.8	1994.3	1999.3	1978.1	1966.8	1998.1	1975.6	2013.1	1980.6	1981.8	1948.1
37.5°	2076.8	2083.1	2125.6	2101.8	2091.8	2076.8	2118.1	2113.1	2120.6	2060.6	2090.6
40°	2195.6	2218.1	2241.9	2181.9	2180.6	2194.4	2191.9	2220.6	2206.9	2198.1	2176.9
42.5°	2325.7	2373.2	2376.9	2336.9	2311.9	2309.4	2321.9	2385.7	2386.9	2329.4	2304.4
45°	2498.2	2550.7	2537.0	2459.4	2431.9	2428.2	2489.5	2517.0	2540.7	2518.2	2497.0
47.5°	2713.3	2748.3	2738.3	2667.0	2578.2	2603.2	2663.3	2749.5	2724.5	2694.5	2669.5
50°	2943.3	2984.6	2963.3	2892.1	2807.0	2807.0	2880.8	2990.8	2983.3	2924.6	2902.1
52.5°	3198.4	3258.4	3307.2	3205.9	3134.6	3145.9	3262.2	3302.2	3283.4	3242.2	3223.4
55°	3388.5	3503.5	3603.5	3608.5	3612.3	3611.0	3641.0	3681.0	3547.3	3481.0	3413.5
57.5°	3342.2	3559.8	3902.4	4134.9	4203.7	4240.0	4229.9	4044.9	3728.6	3511.0	3533.5
60°	3012.1	3367.2	3919.9	4666.3	5166.5	5116.5	4933.9	4202.4	3628.5	3260.9	3214.7
62.5°	2403.2	2830.8	3626.0	4816.4	6194.3	6179.3	5224.0	3838.6	3023.4	2558.2	2529.5
64°	1810.5	2260.6	3234.7	4777.6	6554.4	6569.4	5150.2	3391.0	2365.7	1810.5	1766.8
65°	1385.4	1803.0	2850.8	4697.6	6476.8	6485.6	4945.2	2928.3	1798.0	1285.4	1237.9
67.5°	551.4	767.7	1546.7	3562.3	5561.6	5537.8	3528.5	1416.7	687.7	447.6	438.9
70°	235.1	292.6	542.7	1688.0	3723.6	3654.8	1519.2	460.1	255.1	213.8	212.6
72.5°	161.3	178.8	232.6	521.4	1547.9	1511.7	432.6	213.8	173.8	160.0	160.0
75°	130.0	142.5	168.8	218.8	410.1	395.1	203.8	157.5	138.8	128.8	127.5
77.5°	101.3	113.8	132.5	151.3	187.6	186.3	136.3	118.8	107.5	100.0	97.5
80°	80.0	92.5	105.0	107.5	122.5	120.0	92.5	93.8	87.5	72.5	71.3
82.5°	55.0	75.0	83.8	76.3	72.5	72.5	66.3	66.3	61.3	45.0	41.3
85°	33.8	50.0	52.5	45.0	33.8	33.8	36.3	35.0	32.5	23.8	22.5
87.5°	17.5	23.8	21.3	17.5	11.3	11.3	10.0	7.5	7.5	6.3	6.3
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)