

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: P478971

Luminaire Tested: **IFLD-S-SA2B-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478971
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

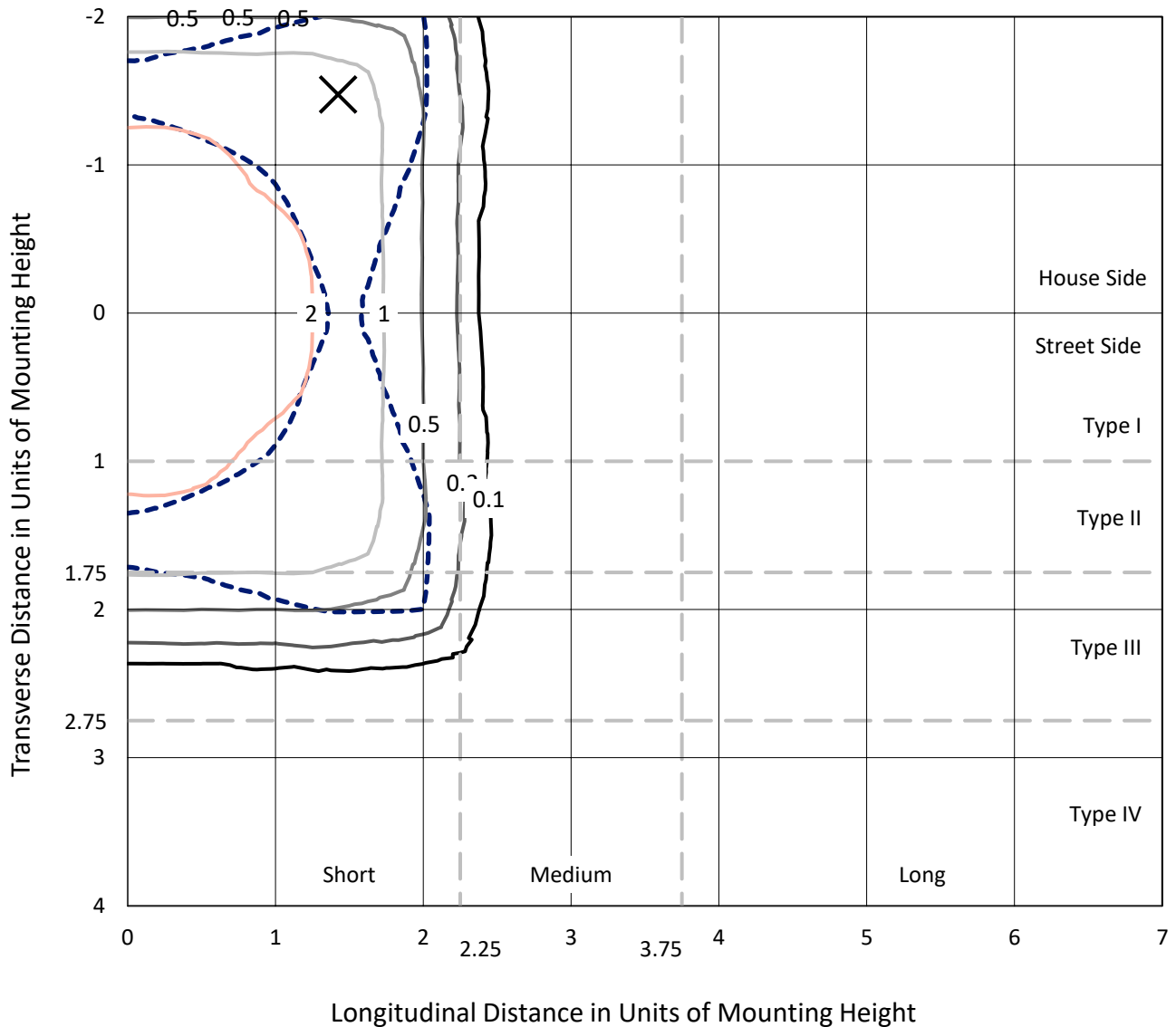
Lumens per Lamp: N/A
Luminaire Lumens: 11648.6 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 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

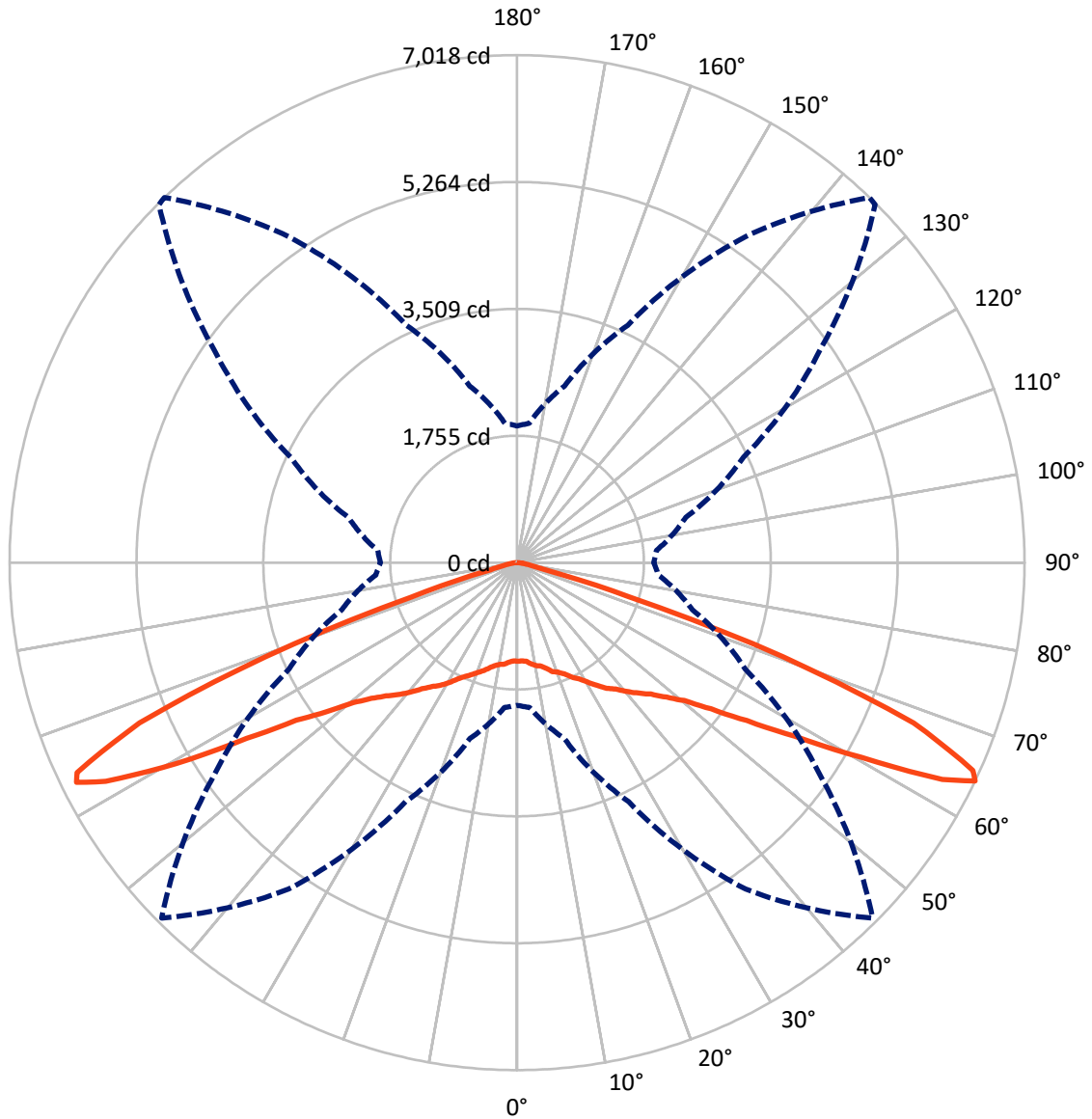
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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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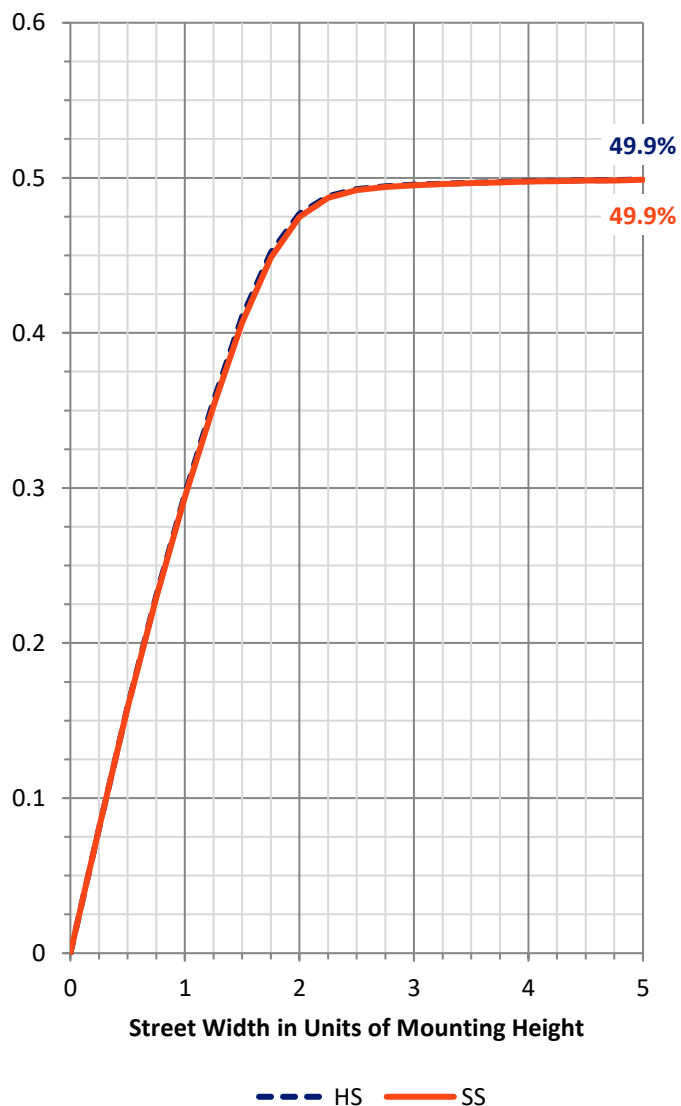
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5829.8	0.0	5829.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5818.7	0.0	5818.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	11648.6	0.0	11648.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	1.2
10°-20°	431.9	3.7
20°-30°	811.7	7.0
30°-40°	1338.6	11.5
40°-50°	2093.6	18.0
50°-60°	3382.7	29.0
60°-70°	3045.9	26.1
70°-80°	360.8	3.1
80°-90°	49.4	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°	11648.6	100.0
0°-180°	11648.6	100.0

Coefficient of Utilization



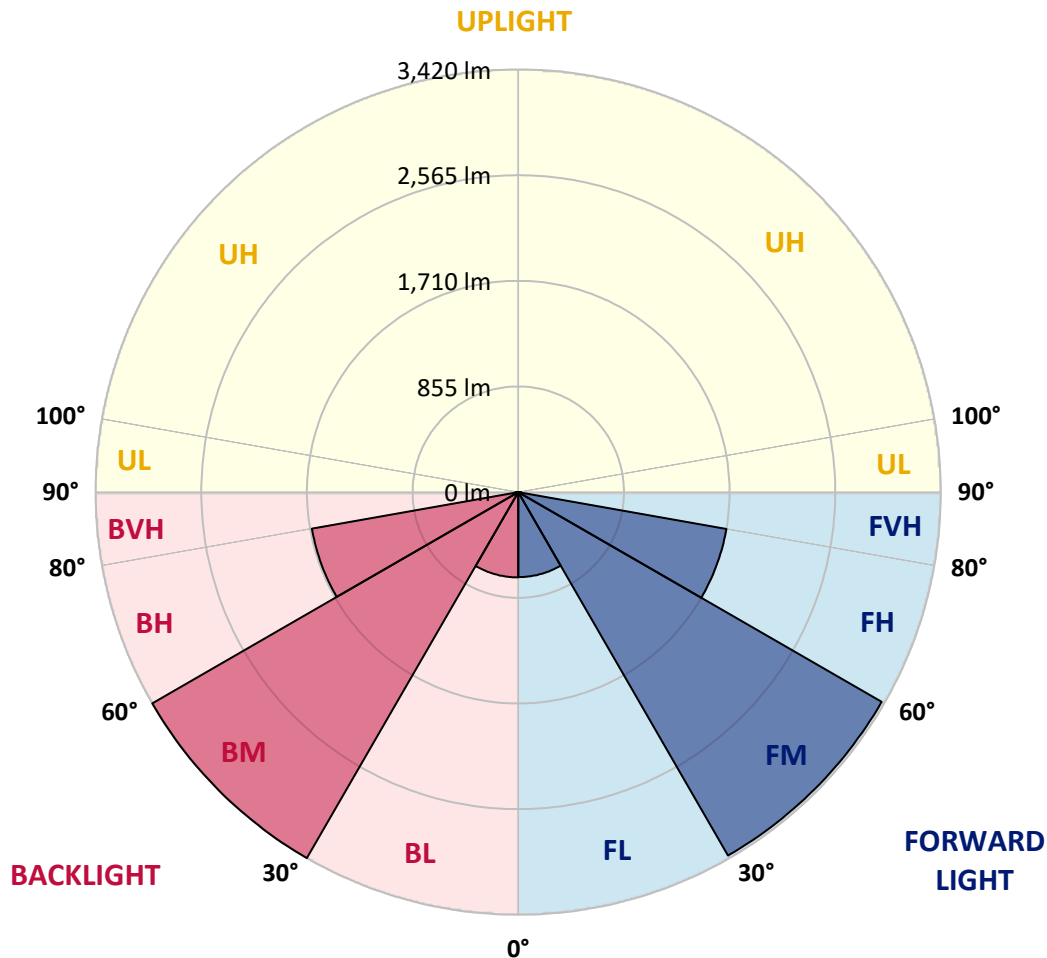
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.5	5.9			
FM (30°-60°)	3395.2	29.1			
FH (60°-80°)	1710.7	14.7			G1/1800
FVH (80°-90°)	25.3	0.2			G1/100
BL (0°-30°)	690.1	5.9	B2/1000		
BM (30°-60°)	3419.7	29.4	B3/5000		
BH (60°-80°)	1696.0	14.6	B3/2500		G1/1800
BVH (80°-90°)	24.1	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°	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8
2.5°	1347.8	1350.4	1374.5	1365.1	1373.2	1358.5	1369.1	1391.9	1365.1	1385.2	1391.9
5°	1362.5	1366.5	1366.5	1375.8	1381.2	1378.5	1385.2	1375.8	1401.2	1390.5	1406.6
7.5°	1415.9	1409.2	1398.5	1406.6	1407.9	1414.6	1421.2	1433.3	1429.3	1419.9	1435.9
10°	1425.3	1419.9	1435.9	1437.3	1430.6	1425.3	1431.9	1431.9	1444.0	1446.6	1446.6
12.5°	1441.3	1446.6	1445.3	1456.0	1457.3	1453.3	1464.0	1484.0	1478.7	1482.7	1473.3
15°	1502.7	1496.0	1494.7	1505.4	1522.8	1497.4	1516.1	1514.7	1509.4	1517.4	1496.0
17.5°	1556.2	1534.8	1544.1	1561.5	1554.8	1560.2	1584.2	1562.8	1568.2	1558.8	1552.1
20°	1602.9	1585.5	1586.9	1593.6	1593.6	1609.6	1618.9	1610.9	1605.6	1604.2	1606.9
22.5°	1655.0	1635.0	1636.3	1664.4	1673.7	1668.4	1661.7	1675.0	1677.7	1667.0	1679.0
25°	1693.7	1715.1	1721.8	1735.1	1715.1	1729.8	1724.5	1749.8	1765.9	1744.5	1759.2
27.5°	1795.3	1785.9	1803.3	1801.9	1818.0	1803.3	1812.6	1820.6	1827.3	1828.6	1822.0
30°	1886.1	1890.1	1872.7	1919.5	1882.1	1906.1	1922.2	1926.2	1934.2	1934.2	1914.1
32.5°	1982.3	1974.2	2002.3	1991.6	1984.9	2003.6	1986.3	2041.0	2009.0	2027.7	2005.0
35°	2090.5	2090.5	2101.1	2130.5	2090.5	2078.4	2110.5	2133.2	2133.2	2099.8	2107.8
37.5°	2212.0	2201.3	2214.7	2252.1	2221.4	2181.3	2240.1	2249.4	2242.7	2233.4	2217.4
40°	2297.5	2294.8	2321.5	2371.0	2326.9	2318.9	2329.6	2354.9	2363.0	2372.3	2350.9
42.5°	2441.8	2453.8	2531.3	2519.2	2483.2	2455.1	2452.4	2547.3	2524.6	2500.5	2488.5
45°	2655.5	2644.8	2684.9	2686.2	2639.5	2578.0	2591.4	2678.2	2716.9	2663.5	2683.5
47.5°	2825.1	2830.5	2858.5	2916.0	2807.8	2743.6	2793.1	2933.3	2921.3	2901.3	2920.0
50°	3052.2	3076.2	3164.4	3144.4	3048.2	2969.4	3077.6	3209.8	3224.5	3151.0	3137.7
52.5°	3366.1	3403.5	3451.6	3467.6	3375.5	3347.4	3354.1	3518.4	3482.3	3411.5	3366.1
55°	3641.3	3658.6	3746.8	3879.0	3872.4	3737.4	3814.9	3876.4	3729.4	3583.8	3595.9
57.5°	3758.8	3766.8	4012.6	4277.1	4434.7	4465.4	4377.3	4170.2	3820.3	3539.8	3522.4
60°	3466.3	3542.4	3839.0	4436.0	5156.0	5511.3	4924.9	4203.6	3607.9	3267.3	3241.9
62.5°	2770.4	2774.4	3215.2	4120.8	5604.8	6535.9	5134.6	3889.7	3041.5	2655.5	2554.0
64°	1972.9	2010.3	2516.6	3647.9	5511.3	6952.6	5109.3	3479.6	2507.2	1959.6	1888.8
65°	1415.9	1468.0	1956.9	3167.1	5292.3	6903.2	5033.1	3127.0	2027.7	1496.0	1423.9
67.5°	520.9	542.3	768.1	1584.2	3800.2	5882.7	3988.6	1719.1	890.9	634.5	570.4
70°	241.8	243.1	284.5	523.6	1661.7	3933.8	1903.5	645.2	335.3	265.8	247.1
72.5°	177.7	181.7	199.0	241.8	488.9	1665.7	625.1	264.5	196.4	173.6	169.6
75°	144.3	146.9	152.3	175.0	225.7	446.1	253.8	183.0	156.3	140.3	134.9
77.5°	110.9	110.9	122.9	133.6	149.6	208.4	168.3	145.6	126.9	110.9	106.9
80°	80.1	81.5	96.2	104.2	101.5	137.6	121.6	120.2	104.2	86.8	80.1
82.5°	46.8	50.8	69.5	74.8	72.1	81.5	88.2	93.5	81.5	60.1	54.8
85°	26.7	28.1	40.1	41.4	41.4	38.7	50.8	56.1	54.8	37.4	33.4
87.5°	8.0	8.0	10.7	10.7	12.0	13.4	20.0	24.0	26.7	18.7	17.4
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°	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8	1363.8
2.5°	1385.2	1365.1	1366.5	1371.8	1354.5	1361.1	1381.2	1366.5	1362.5	1354.5	1350.4
5°	1378.5	1399.9	1391.9	1394.5	1390.5	1371.8	1369.1	1381.2	1387.9	1375.8	1399.9
7.5°	1425.3	1415.9	1405.2	1409.2	1399.9	1415.9	1426.6	1402.5	1414.6	1407.9	1394.5
10°	1452.0	1434.6	1442.6	1439.9	1433.3	1449.3	1438.6	1435.9	1425.3	1410.6	1431.9
12.5°	1461.3	1481.4	1494.7	1472.0	1476.0	1468.0	1461.3	1461.3	1449.3	1445.3	1449.3
15°	1502.7	1520.1	1514.7	1532.1	1509.4	1517.4	1525.4	1505.4	1516.1	1486.7	1509.4
17.5°	1578.9	1564.2	1582.9	1560.2	1568.2	1584.2	1558.8	1558.8	1566.8	1550.8	1530.8
20°	1627.0	1620.3	1613.6	1614.9	1601.6	1616.3	1608.3	1604.2	1592.2	1597.6	1608.3
22.5°	1672.4	1663.0	1665.7	1669.7	1679.0	1672.4	1668.4	1672.4	1643.0	1669.7	1632.3
25°	1728.5	1753.8	1745.8	1763.2	1736.5	1753.8	1752.5	1727.1	1743.2	1732.5	1724.5
27.5°	1822.0	1808.6	1820.6	1799.3	1818.0	1819.3	1803.3	1846.0	1827.3	1824.6	1819.3
30°	1942.2	1932.8	1924.8	1912.8	1927.5	1915.5	1928.8	1932.8	1915.5	1902.1	1876.7
32.5°	2010.3	2035.7	2045.0	2015.7	2017.0	2023.7	2011.6	1999.6	2010.3	2014.3	2010.3
35°	2106.5	2130.5	2135.9	2113.2	2101.1	2134.5	2110.5	2150.6	2115.8	2117.2	2081.1
37.5°	2218.7	2225.4	2270.8	2245.4	2234.7	2218.7	2262.8	2257.4	2265.4	2201.3	2233.4
40°	2345.6	2369.6	2395.0	2330.9	2329.6	2344.3	2341.6	2372.3	2357.6	2348.3	2325.6
42.5°	2484.5	2535.3	2539.3	2496.5	2469.8	2467.1	2480.5	2548.6	2550.0	2488.5	2461.8
45°	2668.8	2724.9	2710.2	2627.4	2598.0	2594.0	2659.5	2688.9	2714.3	2690.2	2667.5
47.5°	2898.6	2936.0	2925.3	2849.2	2754.3	2781.0	2845.2	2937.3	2910.6	2878.6	2851.8
50°	3144.4	3188.4	3165.7	3089.6	2998.8	2998.8	3077.6	3195.1	3187.1	3124.3	3100.3
52.5°	3416.9	3481.0	3533.1	3424.9	3348.7	3360.8	3485.0	3527.7	3507.7	3463.6	3443.6
55°	3619.9	3742.8	3849.6	3855.0	3859.0	3857.7	3889.7	3932.5	3789.5	3718.7	3646.6
57.5°	3570.5	3802.9	4168.9	4417.3	4490.8	4529.5	4518.9	4321.2	3983.2	3750.8	3774.8
60°	3217.8	3597.2	4187.6	4985.0	5519.3	5465.9	5270.9	4489.5	3876.4	3483.7	3434.2
62.5°	2567.3	3024.2	3873.7	5145.3	6617.3	6601.3	5580.8	4100.8	3229.9	2733.0	2702.2
64°	1934.2	2415.0	3455.6	5103.9	7002.0	7018.1	5502.0	3622.6	2527.3	1934.2	1887.4
65°	1480.0	1926.2	3045.5	5018.4	6919.2	6928.6	5282.9	3128.3	1920.8	1373.2	1322.4
67.5°	589.1	820.2	1652.3	3805.6	5941.4	5916.1	3769.5	1513.4	734.7	478.2	468.9
70°	251.1	312.6	579.7	1803.3	3977.9	3904.4	1622.9	491.6	272.5	228.4	227.1
72.5°	172.3	191.0	248.5	557.0	1653.7	1614.9	462.2	228.4	185.7	171.0	171.0
75°	138.9	152.3	180.3	233.8	438.1	422.1	217.7	168.3	148.3	137.6	136.2
77.5°	108.2	121.6	141.6	161.6	200.4	199.0	145.6	126.9	114.9	106.9	104.2
80°	85.5	98.8	112.2	114.9	130.9	128.2	98.8	100.2	93.5	77.5	76.1
82.5°	58.8	80.1	89.5	81.5	77.5	77.5	70.8	70.8	65.5	48.1	44.1
85°	36.1	53.4	56.1	48.1	36.1	36.1	38.7	37.4	34.7	25.4	24.0
87.5°	18.7	25.4	22.7	18.7	12.0	12.0	10.7	8.0	8.0	6.7	6.7
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)