

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: P479171

Luminaire Tested: **IFLD-S-SA3B-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

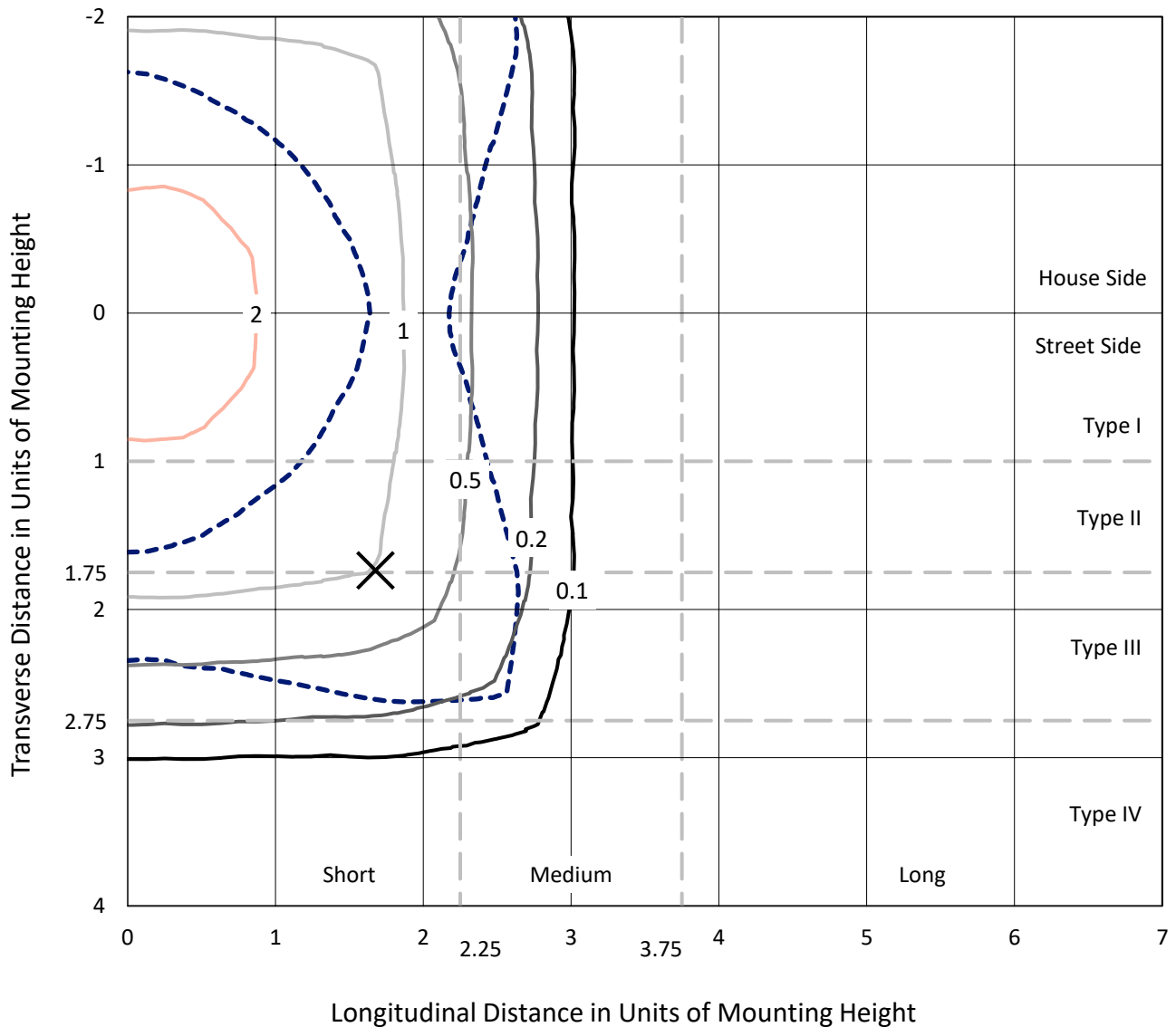
Lumens per Lamp: N/A
Luminaire Lumens: 12651.8 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

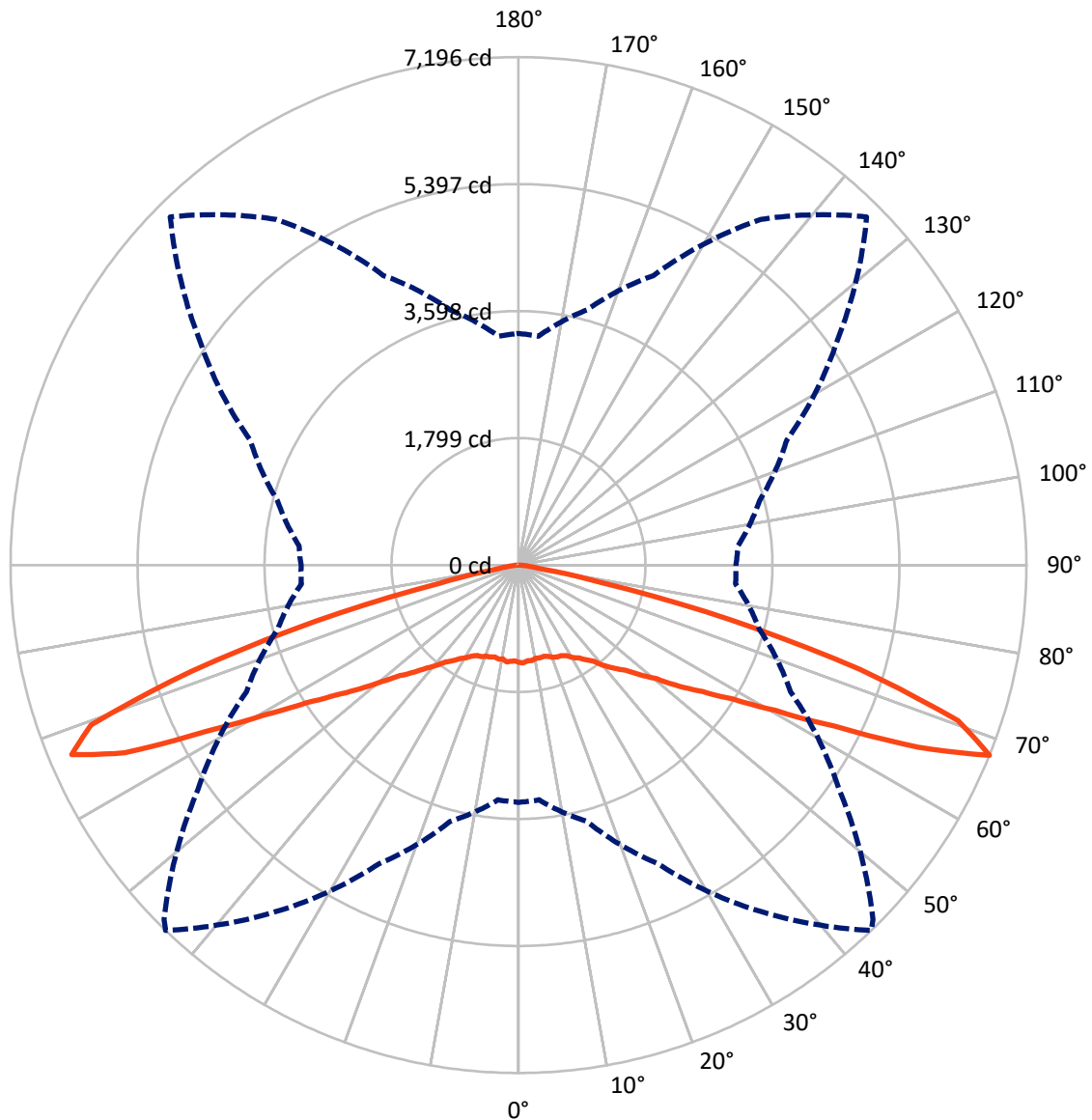
× Max cd
 - - - 1/2 Max cd



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 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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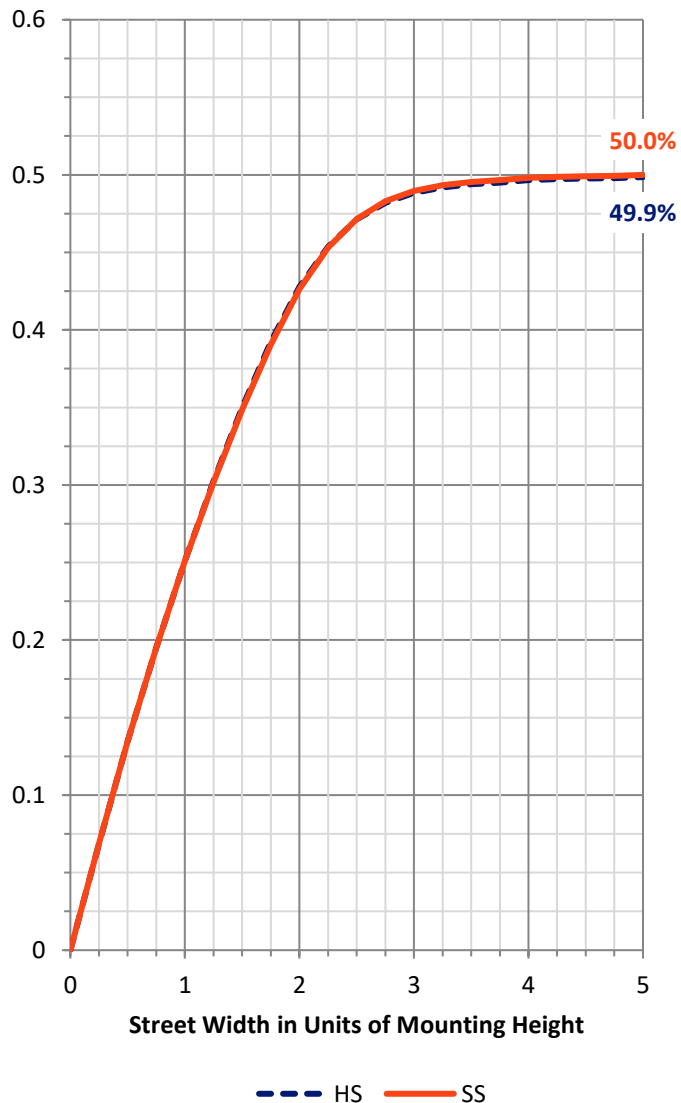
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.7	0.0	6309.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6342.1	0.0	6342.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	12651.8	0.0	12651.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.0
10°-20°	382.1	3.0
20°-30°	649.7	5.1
30°-40°	1030.2	8.1
40°-50°	1679.8	13.3
50°-60°	2868.8	22.7
60°-70°	4363.4	34.5
70°-80°	1470.7	11.6
80°-90°	76.4	0.6
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°	12651.8	100.0
0°-180°	12651.8	100.0

Coefficient of Utilization



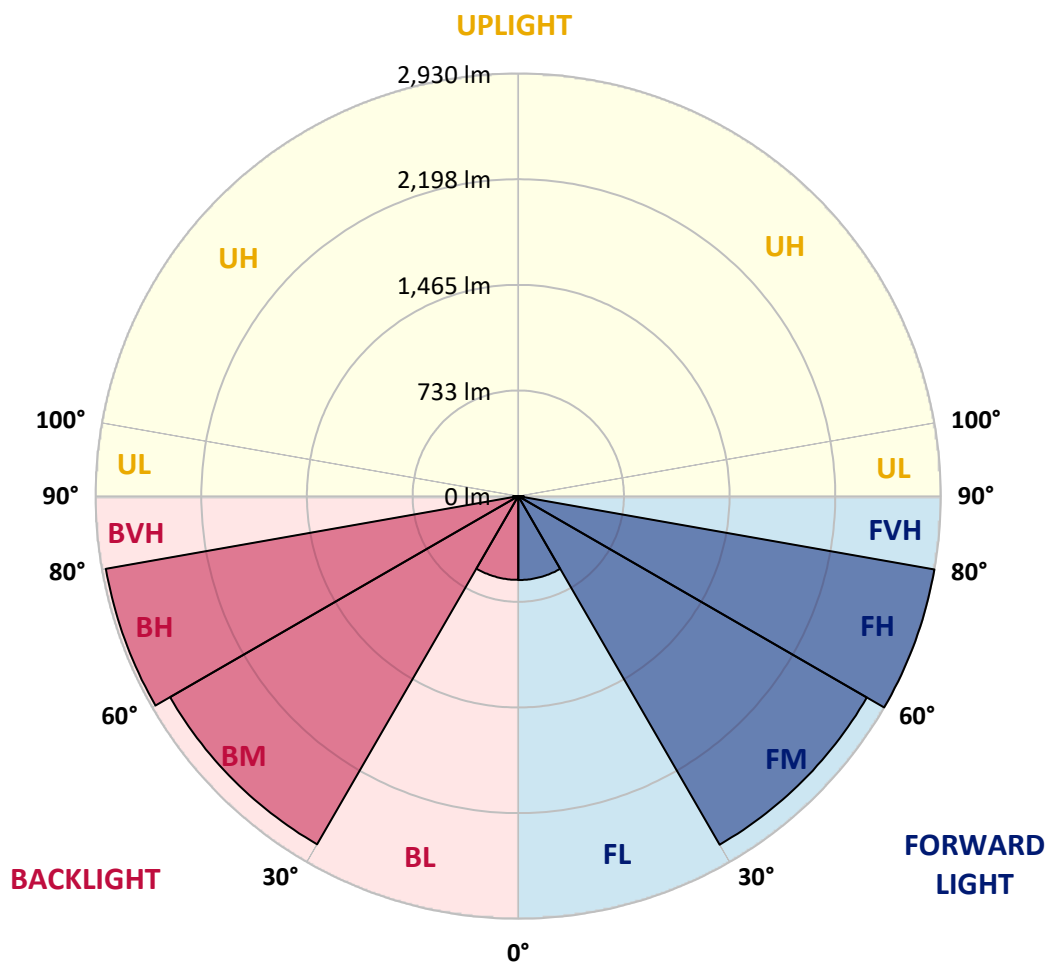
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.9	4.6			
FM (30°-60°)	2790.9	22.1			
FH (60°-80°)	2930.3	23.2			G2/5000
FVH (80°-90°)	39.1	0.3			G1/100
BL (0°-30°)	580.7	4.6	B2/1000		
BM (30°-60°)	2787.9	22.0	B3/5000		
BH (60°-80°)	2903.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	37.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1350.2	1366.1	1377.7	1376.2	1380.5	1384.9	1379.1	1387.8	1382.0	1392.1	1397.9
5°	1376.2	1371.9	1373.3	1364.7	1384.9	1361.8	1361.8	1373.3	1387.8	1370.4	1380.5
7.5°	1360.3	1357.4	1350.2	1363.2	1367.6	1367.6	1379.1	1357.4	1382.0	1387.8	1389.2
10°	1343.0	1327.1	1348.8	1361.8	1364.7	1341.6	1351.7	1357.4	1350.2	1357.4	1361.8
12.5°	1328.6	1337.2	1337.2	1337.2	1332.9	1348.8	1358.9	1357.4	1343.0	1356.0	1332.9
15°	1327.1	1322.8	1335.8	1347.3	1340.1	1343.0	1347.3	1360.3	1332.9	1338.7	1338.7
17.5°	1325.7	1331.4	1335.8	1334.3	1358.9	1358.9	1354.6	1345.9	1367.6	1356.0	1340.1
20°	1331.4	1327.1	1338.7	1343.0	1360.3	1395.0	1382.0	1374.8	1363.2	1348.8	1348.8
22.5°	1338.7	1335.8	1351.7	1370.4	1403.7	1412.3	1410.9	1402.2	1382.0	1364.7	1361.8
25°	1364.7	1338.7	1356.0	1392.1	1403.7	1421.0	1432.5	1421.0	1393.5	1397.9	1371.9
27.5°	1403.7	1399.3	1422.4	1447.0	1436.9	1452.8	1442.6	1451.3	1452.8	1431.1	1405.1
30°	1449.9	1436.9	1451.3	1499.0	1503.3	1520.6	1503.3	1480.2	1487.4	1468.6	1455.6
32.5°	1516.3	1512.0	1539.4	1571.2	1576.9	1568.3	1559.6	1572.6	1542.3	1527.8	1504.7
35°	1559.6	1578.4	1611.6	1636.2	1654.9	1646.3	1650.6	1637.6	1644.8	1614.5	1604.4
37.5°	1688.1	1680.9	1688.1	1730.0	1734.3	1730.0	1734.3	1748.8	1738.7	1712.7	1686.7
40°	1809.4	1797.9	1815.2	1862.9	1860.0	1874.4	1845.5	1861.4	1861.4	1812.3	1802.2
42.5°	1900.4	1939.4	1959.6	1998.6	2013.1	2000.1	1994.3	1997.2	2028.9	1971.2	1949.5
45°	2088.2	2086.7	2147.4	2169.0	2128.6	2125.7	2114.1	2148.8	2170.5	2137.3	2128.6
47.5°	2291.8	2301.9	2336.5	2345.2	2369.7	2325.0	2325.0	2329.3	2405.9	2327.9	2287.4
50°	2475.2	2488.2	2557.5	2625.4	2579.1	2531.5	2550.3	2573.4	2615.2	2541.6	2506.9
52.5°	2697.6	2768.3	2814.5	2850.6	2883.8	2850.6	2807.3	2833.3	2915.6	2817.4	2774.1
55°	3018.1	3074.5	3117.8	3184.2	3211.7	3166.9	3162.6	3159.7	3205.9	3101.9	3042.7
57.5°	3376.3	3353.2	3422.5	3525.0	3624.7	3581.3	3568.3	3571.2	3582.8	3435.5	3390.7
60°	3821.1	3847.1	3929.4	4018.9	4124.3	4185.0	4099.8	4050.7	4060.8	3860.0	3790.7
62.5°	4075.2	4133.0	4319.3	4626.9	4839.1	5028.3	5041.3	4722.2	4508.4	4118.5	3823.9
65°	3952.5	3943.8	4294.7	4863.7	5668.0	6218.2	6135.9	5361.9	4615.3	3995.8	3600.1
67.5°	3361.8	3338.7	3763.3	4665.8	5994.4	7195.9	7102.0	5542.4	4254.3	3535.1	3087.5
70°	2166.1	2160.4	2621.0	3556.8	5351.8	6606.7	6641.4	5034.1	3462.9	2589.3	2145.9
72.5°	787.0	834.7	1101.8	1912.0	3634.8	5054.3	5076.0	3727.2	1991.4	1197.1	882.3
75°	290.3	298.9	348.0	621.0	1656.4	3103.3	3184.2	1808.0	707.6	389.9	317.7
77.5°	167.5	169.0	186.3	231.1	491.0	1211.6	1260.7	548.8	274.4	207.9	192.1
80°	114.1	112.6	131.4	150.2	196.4	343.7	365.4	229.6	173.3	144.4	121.3
82.5°	66.4	70.8	96.8	106.9	119.9	151.6	154.5	143.0	130.0	106.9	79.4
85°	40.4	33.2	53.4	59.2	69.3	67.9	67.9	78.0	83.8	75.1	44.8
87.5°	10.1	10.1	13.0	14.4	18.8	14.4	15.9	30.3	40.4	37.5	23.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1384.9	1380.5	1383.4	1399.3	1389.2	1358.9	1366.1	1382.0	1369.0	1361.8	1360.3
5°	1379.1	1387.8	1377.7	1380.5	1390.7	1366.1	1370.4	1390.7	1382.0	1384.9	1369.0
7.5°	1380.5	1384.9	1376.2	1363.2	1363.2	1383.4	1371.9	1374.8	1361.8	1383.4	1354.6
10°	1371.9	1360.3	1350.2	1357.4	1354.6	1348.8	1344.4	1353.1	1340.1	1358.9	1338.7
12.5°	1345.9	1348.8	1345.9	1343.0	1348.8	1363.2	1340.1	1343.0	1322.8	1325.7	1335.8
15°	1335.8	1344.4	1341.6	1357.4	1364.7	1343.0	1360.3	1343.0	1327.1	1318.5	1334.3
17.5°	1340.1	1353.1	1348.8	1360.3	1347.3	1363.2	1366.1	1358.9	1340.1	1332.9	1340.1
20°	1344.4	1340.1	1345.9	1366.1	1384.9	1369.0	1369.0	1364.7	1347.3	1337.2	1337.2
22.5°	1354.6	1347.3	1356.0	1371.9	1377.7	1402.2	1380.5	1370.4	1341.6	1315.6	1340.1
25°	1374.8	1379.1	1384.9	1379.1	1410.9	1408.0	1405.1	1397.9	1353.1	1354.6	1350.2
27.5°	1413.8	1389.2	1396.4	1431.1	1435.4	1447.0	1432.5	1445.5	1397.9	1399.3	1370.4
30°	1461.4	1435.4	1458.5	1488.9	1487.4	1509.1	1501.9	1504.7	1471.5	1452.8	1413.8
32.5°	1513.4	1510.5	1525.0	1543.7	1551.0	1562.5	1561.1	1561.1	1540.8	1491.7	1499.0
35°	1571.2	1591.4	1608.7	1628.9	1631.8	1646.3	1626.0	1628.9	1608.7	1572.6	1584.2
37.5°	1685.3	1683.8	1702.6	1727.1	1730.0	1718.5	1734.3	1727.1	1699.7	1675.1	1656.4
40°	1818.1	1789.2	1806.6	1864.3	1868.7	1848.4	1847.0	1845.5	1825.3	1771.9	1760.3
42.5°	1933.6	1971.2	1968.3	1987.1	1974.1	1964.0	2000.1	1979.8	1964.0	1907.6	1897.5
45°	2082.4	2093.9	2131.5	2192.1	2130.0	2130.0	2154.6	2138.7	2130.0	2088.2	2049.2
47.5°	2267.2	2277.3	2352.4	2356.8	2316.3	2288.9	2365.4	2368.3	2332.2	2300.4	2252.8
50°	2483.8	2488.2	2556.0	2625.4	2580.6	2528.6	2606.6	2636.9	2556.0	2512.7	2453.5
52.5°	2722.1	2709.1	2765.4	2895.4	2852.1	2836.2	2919.9	2927.2	2817.4	2749.5	2765.4
55°	2996.5	2979.2	3132.2	3220.3	3192.9	3164.0	3201.5	3218.9	3130.8	3019.6	3058.6
57.5°	3351.7	3360.4	3436.9	3523.6	3568.3	3575.6	3592.9	3575.6	3486.0	3373.4	3337.3
60°	3707.0	3733.0	3881.7	4044.9	4059.3	4186.4	4163.3	4076.7	3949.6	3789.3	3796.5
62.5°	3838.4	3816.7	4056.4	4455.0	4794.4	5026.9	4924.3	4616.8	4322.2	4030.5	4052.1
65°	3574.1	3627.5	3953.9	4577.8	5314.2	6234.1	5688.3	4837.7	4242.7	3865.8	3823.9
67.5°	3080.2	3120.7	3535.1	4193.6	5500.5	6976.4	5977.1	4525.8	3741.6	3253.5	3279.5
70°	2145.9	2166.1	2571.9	3435.5	4987.9	6583.6	5392.2	3475.9	2583.5	2059.3	2088.2
72.5°	863.6	912.7	1179.8	2069.4	3682.4	5002.3	3630.4	1823.9	1071.5	797.1	723.5
75°	319.1	320.6	376.9	711.9	1748.8	3143.8	1637.6	586.3	342.2	280.2	267.2
77.5°	184.8	183.4	196.4	257.0	506.9	1227.5	465.0	229.6	186.3	167.5	160.3
80°	115.5	114.1	134.3	170.4	222.4	336.5	196.4	143.0	125.6	108.3	108.3
82.5°	73.6	75.1	105.4	125.6	135.7	148.7	114.1	101.1	93.9	62.1	60.7
85°	47.7	43.3	73.6	83.8	75.1	66.4	63.5	53.4	49.1	30.3	33.2
87.5°	21.7	23.1	37.5	41.9	27.4	15.9	15.9	11.6	11.6	7.2	7.2
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)