

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: P481121

Luminaire Tested: **IFLD-S-SA3B-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481121
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

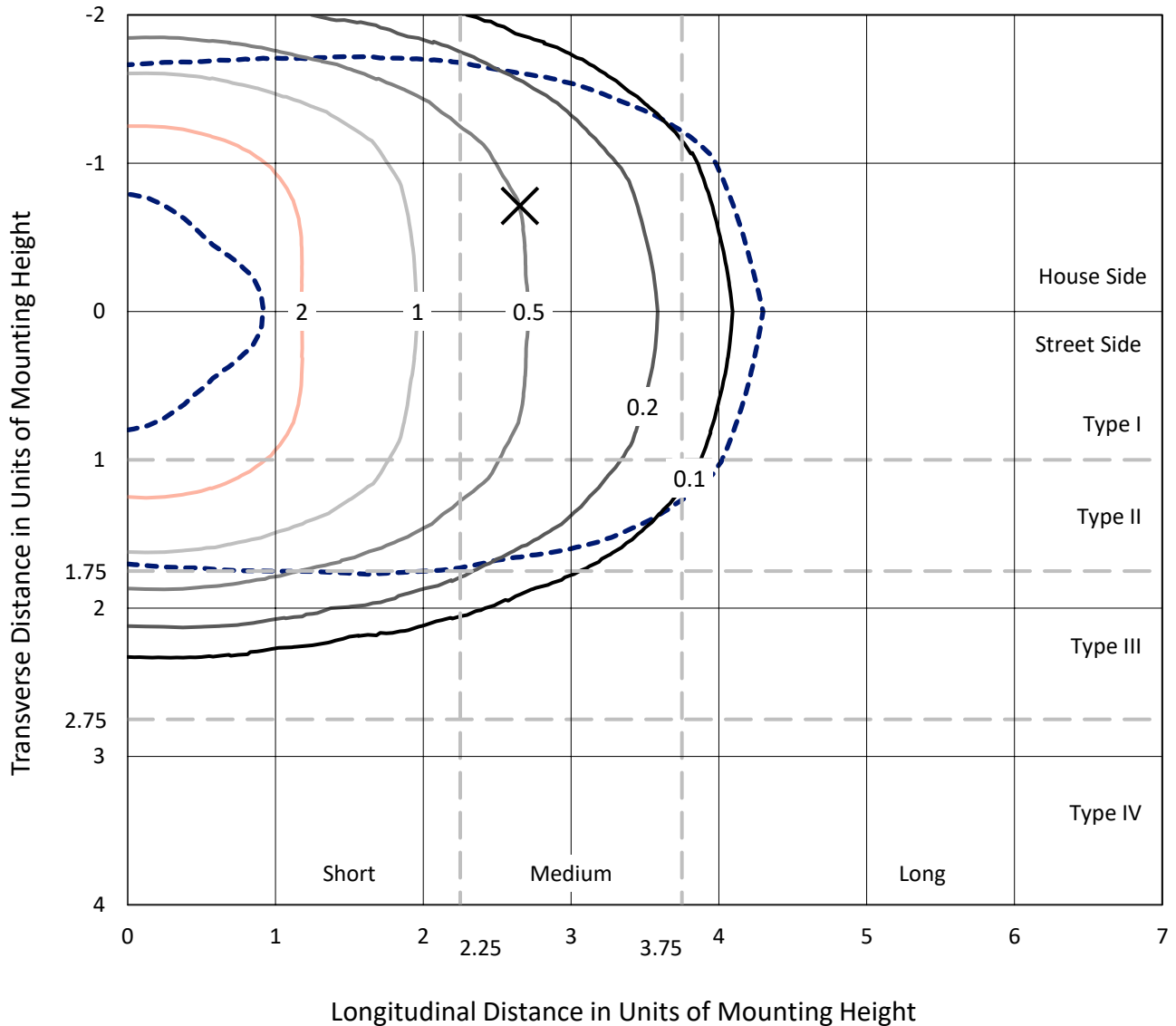
Lumens per Lamp: N/A
Luminaire Lumens: 12910.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

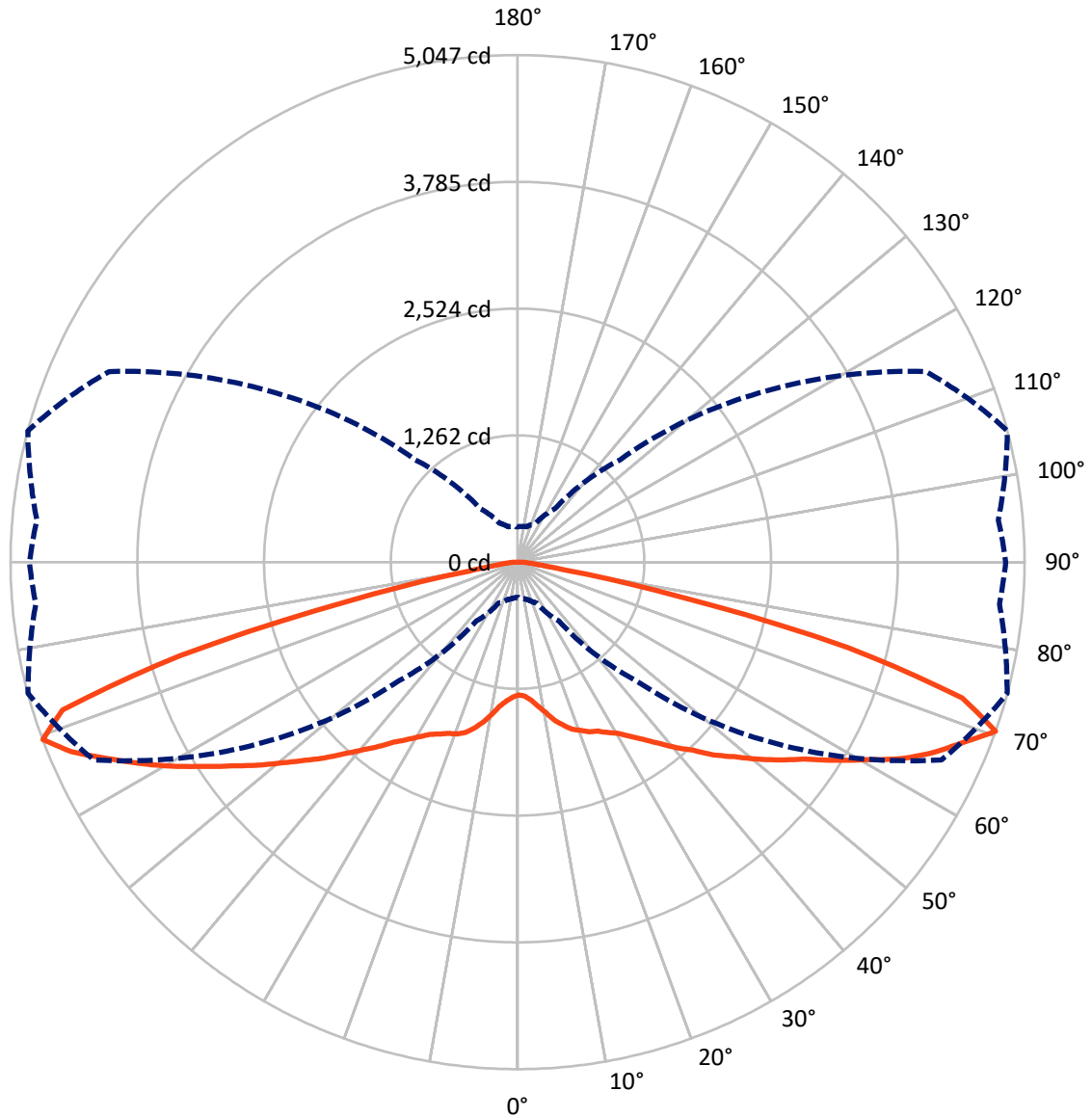
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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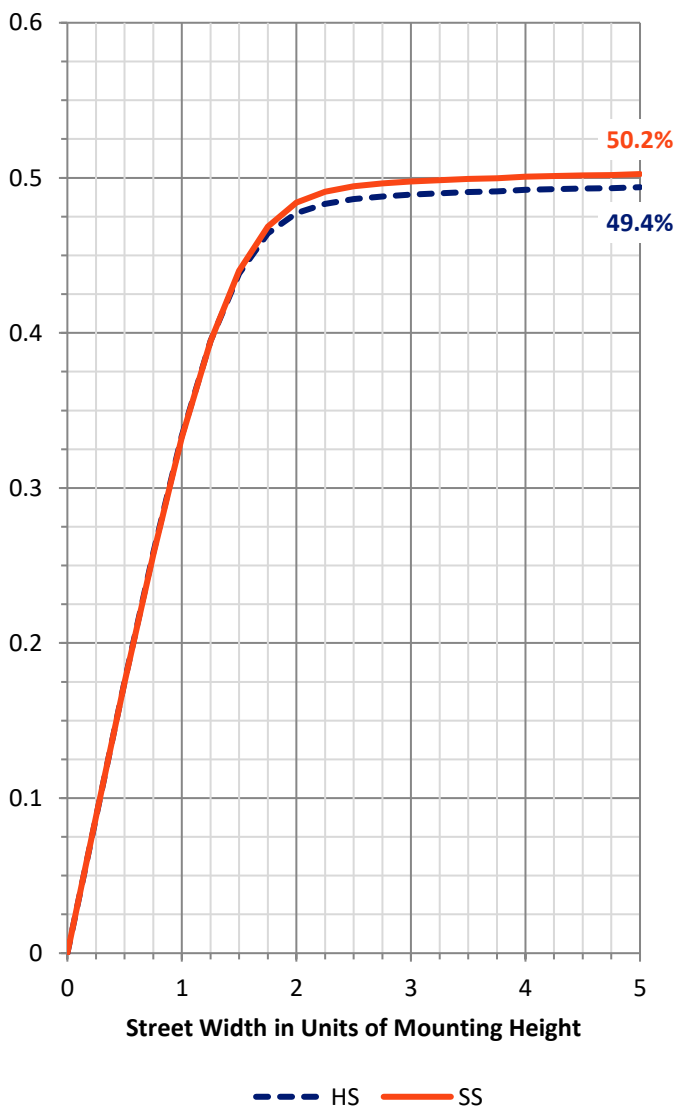
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6409.2	0.0	6409.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6501.0	0.0	6501.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	12910.2	0.0	12910.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.0
10°-20°	448.0	3.5
20°-30°	867.5	6.7
30°-40°	1467.4	11.4
40°-50°	2340.9	18.1
50°-60°	3204.2	24.8
60°-70°	3020.1	23.4
70°-80°	1330.4	10.3
80°-90°	100.1	0.8
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°	12910.2	100.0
0°-180°	12910.2	100.0



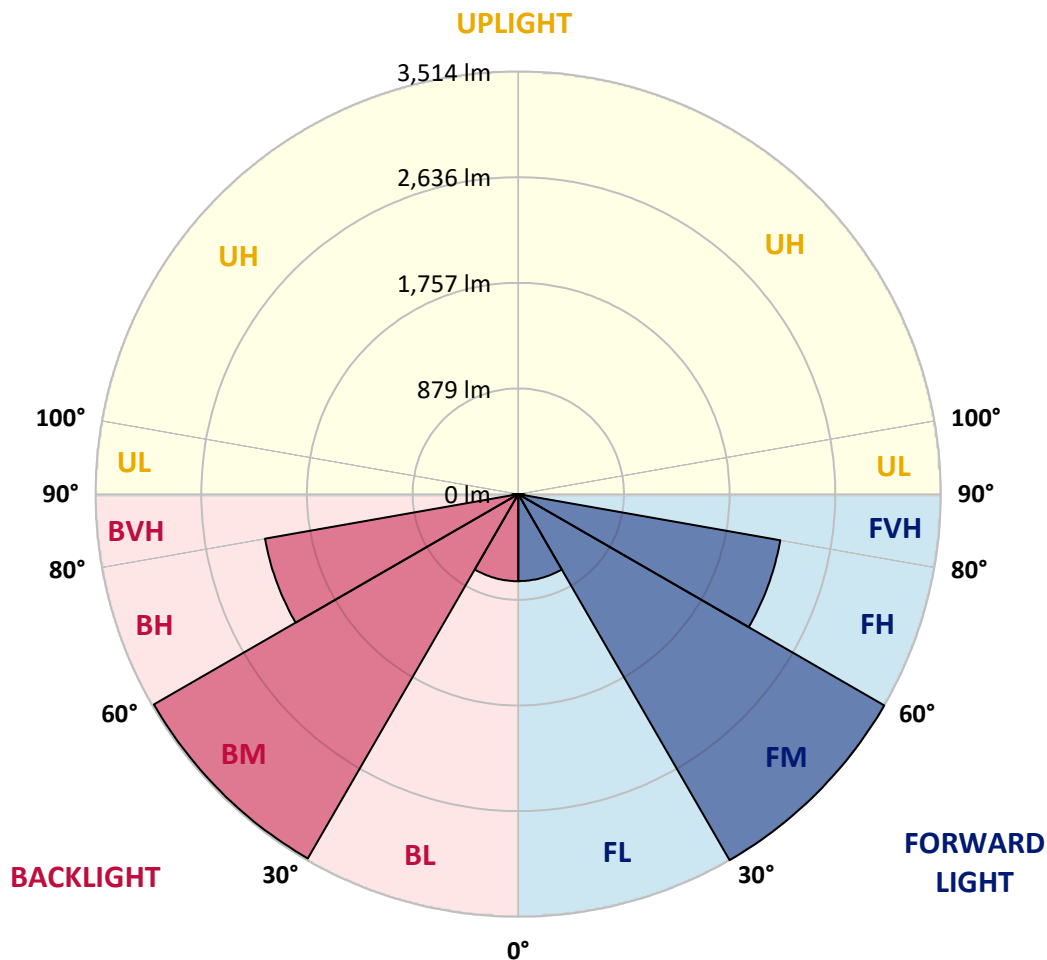
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.2	5.6			
FM (30°-60°)	3514.1	27.2			
FH (60°-80°)	2212.7	17.1			G2/5000
FVH (80°-90°)	51.1	0.4			G1/100
BL (0°-30°)	724.0	5.6	B2/1000		
BM (30°-60°)	3498.3	27.1	B3/5000		
BH (60°-80°)	2137.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	49.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1313.6	1313.6	1312.3	1319.2	1326.2	1329.0	1334.5	1335.9	1344.3	1337.3	1351.2
5°	1309.5	1308.1	1319.2	1335.9	1335.9	1354.0	1365.1	1380.4	1384.6	1393.0	1395.7
7.5°	1338.7	1335.9	1330.3	1348.4	1363.7	1391.6	1406.9	1433.3	1443.1	1454.2	1466.7
10°	1356.8	1356.8	1351.2	1383.2	1397.1	1434.7	1468.1	1494.6	1532.1	1544.6	1546.0
12.5°	1359.6	1363.7	1380.4	1422.2	1461.2	1509.9	1534.9	1585.0	1622.6	1646.2	1654.6
15°	1401.3	1393.0	1411.1	1468.1	1525.2	1568.3	1612.8	1649.0	1703.3	1733.9	1753.4
17.5°	1438.9	1430.5	1463.9	1532.1	1590.6	1657.4	1696.3	1735.3	1774.3	1802.1	1803.5
20°	1498.7	1505.7	1534.9	1608.7	1685.2	1743.6	1788.2	1795.1	1814.6	1855.0	1848.0
22.5°	1572.5	1566.9	1628.1	1708.9	1792.3	1841.1	1866.1	1848.0	1838.3	1881.4	1891.2
25°	1646.2	1662.9	1718.6	1793.7	1893.9	1959.3	1966.3	1916.2	1880.0	1895.3	1891.2
27.5°	1759.0	1761.7	1820.2	1909.2	2010.8	2067.9	2063.7	1992.7	1923.2	1924.5	1927.3
30°	1903.7	1889.8	1953.8	2034.5	2134.7	2186.2	2193.1	2091.5	1998.3	1970.5	1977.4
32.5°	2042.8	2059.5	2115.2	2207.0	2280.8	2310.0	2294.7	2204.3	2083.2	2045.6	2049.8
35°	2221.0	2218.2	2294.7	2372.6	2428.3	2433.9	2421.3	2289.1	2175.0	2126.3	2106.8
37.5°	2411.6	2436.6	2486.7	2550.8	2609.2	2612.0	2543.8	2438.0	2297.5	2216.8	2240.4
40°	2624.5	2652.3	2688.5	2781.8	2824.9	2780.4	2710.8	2567.5	2421.3	2350.4	2361.5
42.5°	2812.4	2824.9	2898.7	3008.6	3029.5	3010.0	2907.0	2733.1	2563.3	2485.4	2490.9
45°	2984.9	3001.6	3097.6	3196.4	3245.2	3211.8	3092.1	2926.5	2728.9	2662.1	2635.6
47.5°	3143.6	3177.0	3270.2	3371.8	3446.9	3449.7	3302.2	3101.8	2893.1	2805.4	2804.0
50°	3250.7	3299.4	3391.3	3506.8	3616.7	3659.8	3512.3	3296.6	3072.6	2979.4	2969.6
52.5°	3309.2	3359.3	3451.1	3630.6	3753.1	3819.9	3750.3	3478.9	3282.7	3185.3	3170.0
55°	3238.2	3271.6	3421.9	3673.8	3863.0	3972.9	3927.0	3730.8	3491.5	3412.1	3426.1
57.5°	2936.2	3005.8	3190.9	3505.4	3860.2	4130.2	4126.0	3968.8	3732.2	3657.1	3659.8
60°	2417.2	2475.6	2703.8	3143.6	3704.4	4194.2	4341.7	4199.8	4002.2	3914.5	3911.7
62.5°	1706.1	1779.8	2044.2	2524.3	3245.2	4105.1	4589.4	4490.6	4266.6	4202.6	4226.2
65°	954.6	999.2	1244.1	1678.2	2472.8	3615.3	4633.9	4792.6	4535.1	4437.7	4441.9
67.5°	510.7	527.4	641.5	880.9	1512.6	2787.3	4184.5	4966.5	4826.0	4657.6	4631.2
70°	350.7	356.2	385.5	450.9	715.3	1667.1	3156.1	4656.2	5044.5	4814.8	4859.4
72.5°	296.4	293.6	300.6	307.5	374.3	745.9	1852.2	3583.3	4762.0	4675.7	4659.0
75°	257.4	256.0	258.8	251.9	260.2	328.4	819.6	2233.5	3485.9	3890.8	3953.5
77.5°	212.9	214.3	215.7	208.7	206.0	217.1	329.8	981.1	1715.8	1893.9	2042.8
80°	161.4	164.2	175.3	168.4	157.2	158.6	194.8	328.4	492.6	446.7	460.6
82.5°	109.9	111.3	135.0	126.6	118.3	107.2	125.2	169.8	192.0	146.1	128.0
85°	77.9	76.5	87.7	80.7	75.1	54.3	75.1	96.0	115.5	72.4	65.4
87.5°	18.1	18.1	36.2	29.2	27.8	22.3	29.2	37.6	50.1	32.0	29.2
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°	145°	155°	165°	175°	180°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1347.0	1334.5	1334.5	1331.7	1320.6	1317.8	1308.1	1310.9	1303.9	1296.9
5°	1394.4	1377.7	1377.7	1354.0	1331.7	1329.0	1317.8	1317.8	1306.7	1309.5
7.5°	1459.8	1444.5	1419.4	1398.5	1367.9	1355.4	1334.5	1331.7	1329.0	1323.4
10°	1537.7	1518.2	1493.2	1450.0	1425.0	1401.3	1380.4	1351.2	1344.3	1345.7
12.5°	1643.5	1612.8	1558.6	1521.0	1489.0	1458.4	1427.8	1384.6	1374.9	1379.1
15°	1718.6	1679.6	1625.4	1611.4	1568.3	1530.7	1480.6	1431.9	1415.2	1411.1
17.5°	1779.8	1747.8	1715.8	1694.9	1660.1	1614.2	1544.6	1489.0	1451.4	1447.2
20°	1829.9	1788.2	1781.2	1793.7	1750.6	1720.0	1635.1	1566.9	1516.8	1495.9
22.5°	1860.5	1834.1	1853.6	1864.7	1861.9	1810.4	1722.8	1643.5	1580.8	1561.3
25°	1893.9	1863.3	1932.9	1970.5	1980.2	1895.3	1827.1	1722.8	1661.5	1649.0
27.5°	1910.6	1921.8	2002.5	2081.8	2074.8	2009.4	1917.6	1824.4	1775.6	1753.4
30°	1959.3	1977.4	2099.9	2188.9	2190.3	2126.3	2056.7	1951.0	1896.7	1887.0
32.5°	2047.0	2069.3	2200.1	2294.7	2311.4	2262.7	2193.1	2127.7	2072.1	2049.8
35°	2113.8	2170.9	2318.4	2404.6	2449.2	2419.9	2381.0	2312.8	2254.4	2234.9
37.5°	2209.8	2289.1	2431.1	2548.0	2598.1	2595.3	2566.1	2492.3	2443.6	2426.9
40°	2347.6	2426.9	2556.3	2710.8	2804.0	2799.8	2783.2	2726.1	2653.7	2645.4
42.5°	2493.7	2559.1	2727.5	2904.2	3037.8	3023.9	2979.4	2912.6	2862.5	2851.3
45°	2635.6	2737.2	2893.1	3119.9	3220.1	3254.9	3202.0	3087.9	3030.9	3023.9
47.5°	2813.8	2894.5	3089.3	3292.5	3441.4	3446.9	3356.5	3250.7	3146.4	3168.6
50°	2972.4	3079.6	3277.2	3499.8	3677.9	3613.9	3498.4	3366.2	3291.1	3261.9
52.5°	3142.2	3273.0	3502.6	3729.4	3828.2	3764.2	3576.3	3428.8	3314.7	3302.2
55°	3389.9	3458.1	3758.6	3932.6	3964.6	3829.6	3552.7	3344.0	3196.4	3160.3
57.5°	3641.8	3721.1	3984.1	4134.4	4101.0	3793.4	3399.6	3076.8	2883.3	2831.9
60°	3896.4	3993.8	4215.1	4352.8	4180.3	3544.3	2966.8	2550.8	2325.3	2279.4
62.5°	4180.3	4306.9	4504.5	4553.2	3945.1	3051.7	2354.5	1841.1	1612.8	1536.3
65°	4432.2	4561.6	4805.1	4511.5	3445.5	2276.6	1522.4	1052.0	883.7	822.4
67.5°	4639.5	4785.6	4905.3	3992.4	2522.9	1333.1	793.2	553.8	491.2	469.0
70°	4803.7	5047.2	4487.8	2934.8	1441.7	649.9	428.6	364.6	356.2	350.7
72.5°	4660.4	4628.4	3350.9	1693.5	631.8	357.6	310.3	300.6	299.2	300.6
75°	3811.5	3399.6	2003.9	736.1	317.3	258.8	257.4	253.3	260.2	260.2
77.5°	1849.4	1617.0	837.7	315.9	208.7	203.2	210.1	210.1	210.1	210.1
80°	428.6	474.5	299.2	192.0	151.7	151.7	167.0	168.4	161.4	158.6
82.5°	146.1	194.8	164.2	121.1	100.2	112.7	126.6	129.4	107.2	108.5
85°	72.4	114.1	89.1	69.6	51.5	69.6	82.1	86.3	73.8	71.0
87.5°	33.4	50.1	33.4	23.7	18.1	25.0	23.7	19.5	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)