

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: P481140

Luminaire Tested: **IFLD-M-SA4A-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

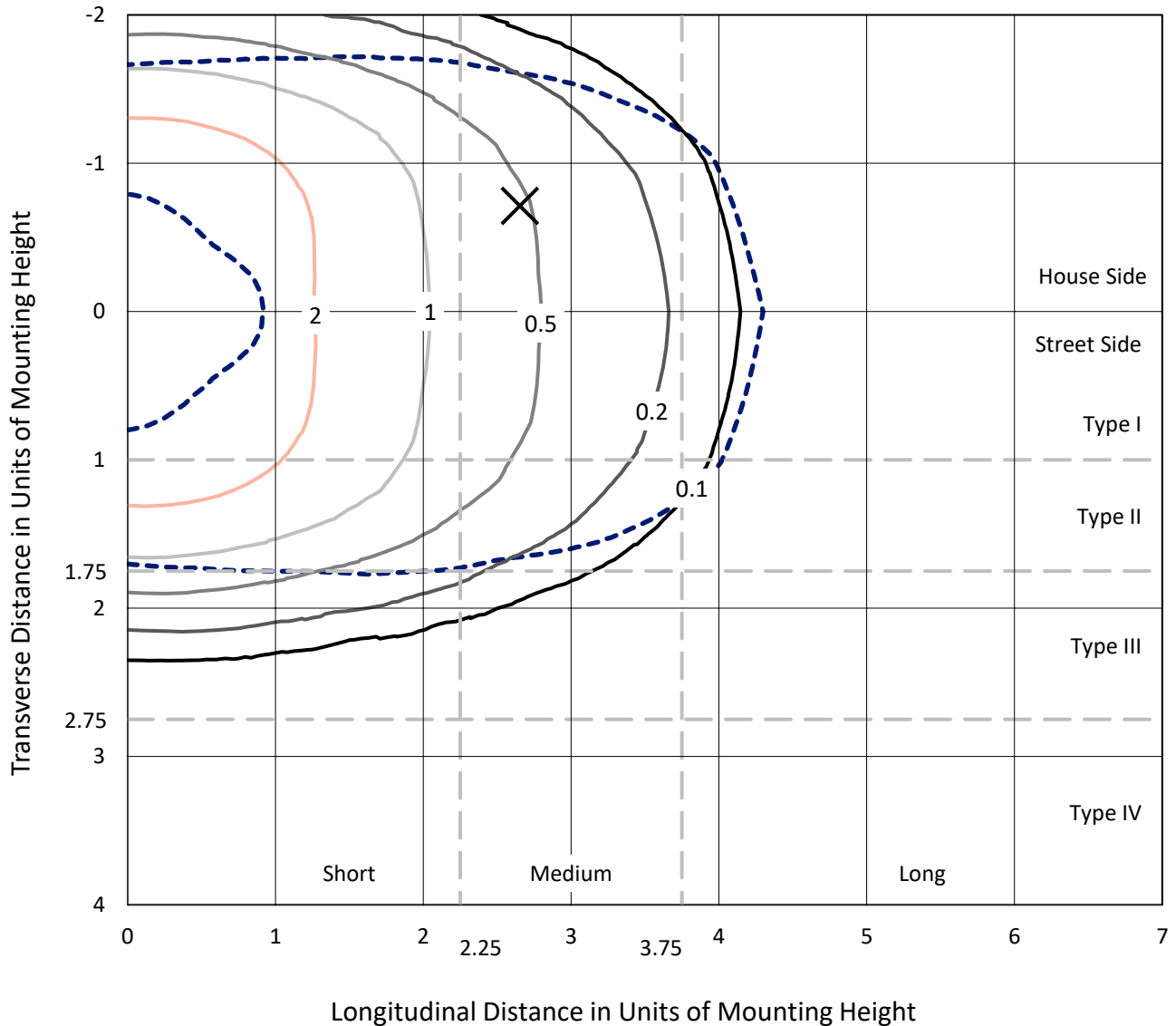
Lumens per Lamp: N/A
Luminaire Lumens: 14011.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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

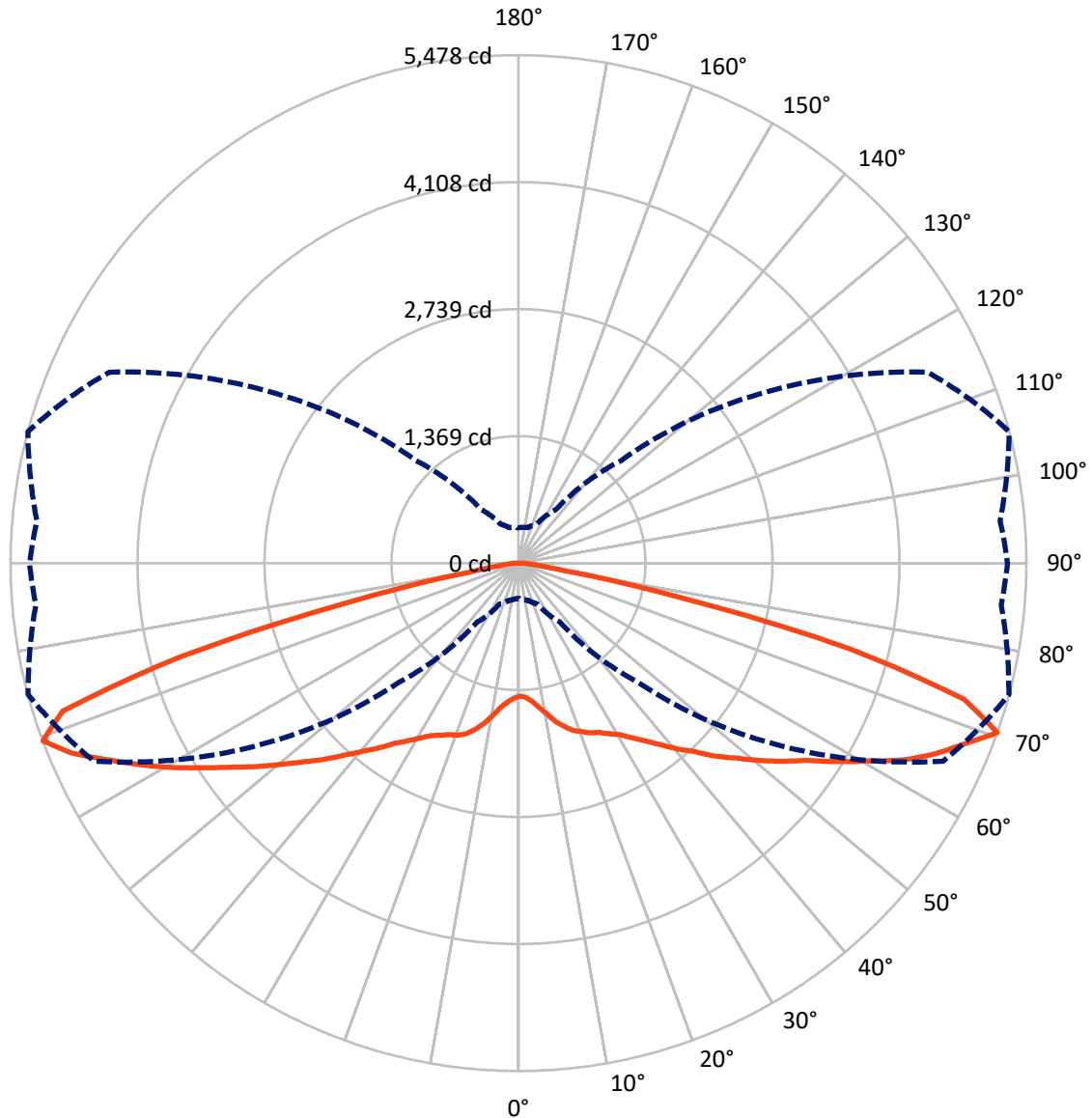
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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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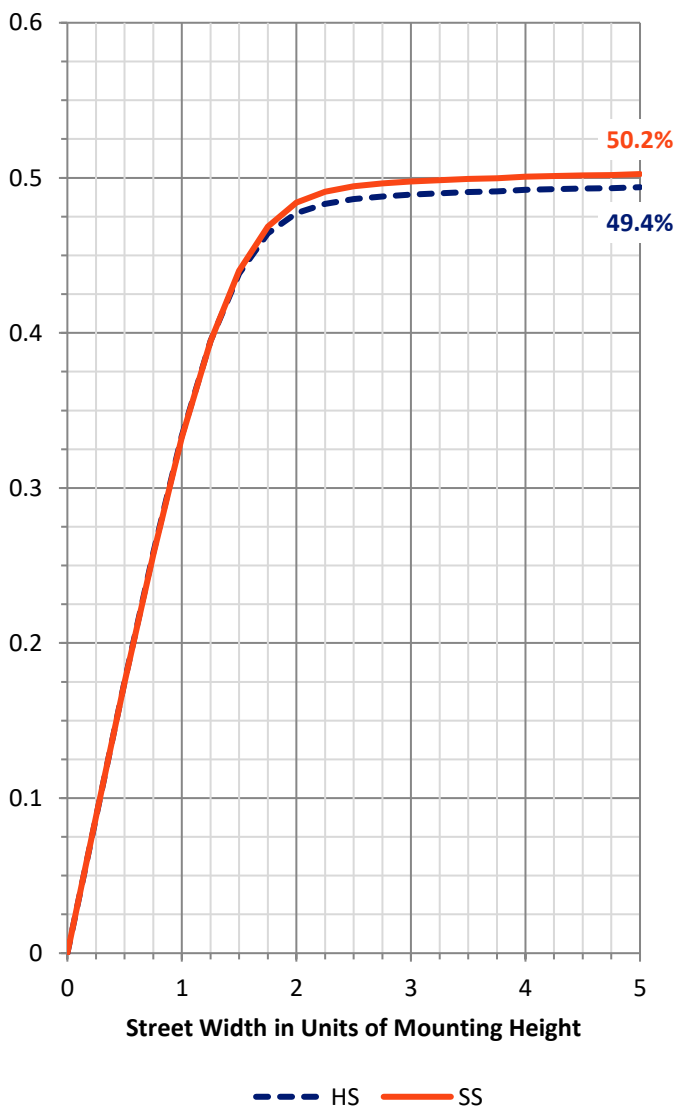
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6955.9	0.0	6955.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7055.6	0.0	7055.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	14011.5	0.0	14011.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	1.0
10°-20°	486.2	3.5
20°-30°	941.5	6.7
30°-40°	1592.5	11.4
40°-50°	2540.6	18.1
50°-60°	3477.5	24.8
60°-70°	3277.8	23.4
70°-80°	1443.9	10.3
80°-90°	108.6	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°	14011.5	100.0
0°-180°	14011.5	100.0

Coefficient of Utilization



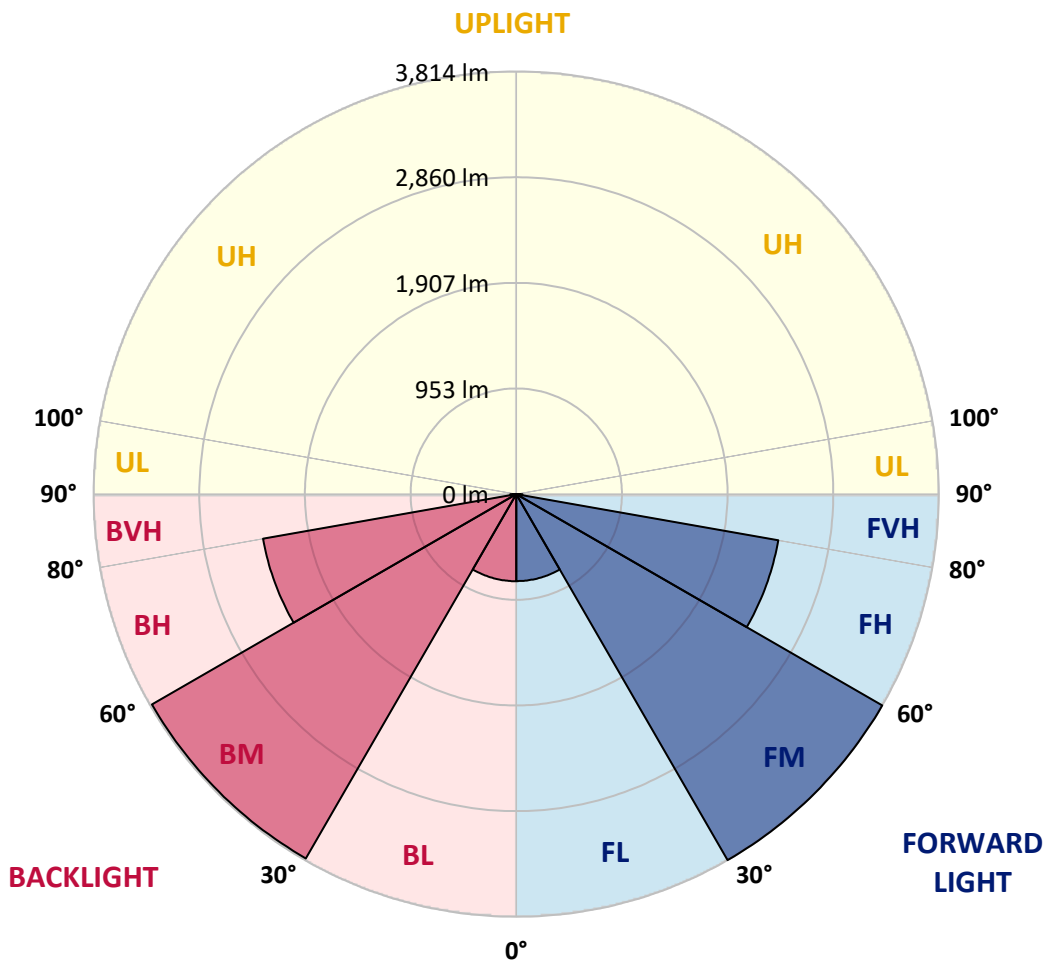
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.9	5.6			
FM (30°-60°)	3813.8	27.2			
FH (60°-80°)	2401.4	17.1			G2/5000
FVH (80°-90°)	55.5	0.4			G1/100
BL (0°-30°)	785.7	5.6	B2/1000		
BM (30°-60°)	3796.8	27.1	B3/5000		
BH (60°-80°)	2320.3	16.6	B3/2500		G3/2500
BVH (80°-90°)	53.1	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°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1425.7	1425.7	1424.2	1431.7	1439.3	1442.3	1448.4	1449.9	1458.9	1451.4	1466.5
5°	1421.2	1419.7	1431.7	1449.9	1449.9	1469.5	1481.6	1498.2	1502.7	1511.8	1514.8
7.5°	1452.9	1449.9	1443.8	1463.5	1480.1	1510.3	1526.9	1555.6	1566.2	1578.2	1591.8
10°	1472.5	1472.5	1466.5	1501.2	1516.3	1557.1	1593.3	1622.0	1662.8	1676.4	1677.9
12.5°	1475.5	1480.1	1498.2	1543.5	1585.8	1638.7	1665.8	1720.2	1761.0	1786.7	1795.7
15°	1520.9	1511.8	1531.4	1593.3	1655.3	1702.1	1750.4	1789.7	1848.6	1881.8	1903.0
17.5°	1561.6	1552.6	1588.8	1662.8	1726.3	1798.7	1841.0	1883.3	1925.6	1955.8	1957.3
20°	1626.6	1634.1	1665.8	1745.9	1828.9	1892.4	1940.7	1948.3	1969.4	2013.2	2005.7
22.5°	1706.6	1700.6	1767.0	1854.6	1945.2	1998.1	2025.3	2005.7	1995.1	2041.9	2052.5
25°	1786.7	1804.8	1865.2	1946.8	2055.5	2126.5	2134.0	2079.7	2040.4	2057.0	2052.5
27.5°	1909.0	1912.0	1975.4	2072.1	2182.4	2244.3	2239.7	2162.7	2087.2	2088.7	2091.7
30°	2066.1	2051.0	2120.4	2208.0	2316.8	2372.7	2380.2	2270.0	2168.8	2138.6	2146.1
32.5°	2217.1	2235.2	2295.6	2395.3	2475.3	2507.1	2490.5	2392.3	2260.9	2220.1	2224.6
35°	2410.4	2407.4	2490.5	2575.0	2635.4	2641.5	2627.9	2484.4	2360.6	2307.7	2286.6
37.5°	2617.3	2644.5	2698.9	2768.3	2831.8	2834.8	2760.8	2646.0	2493.5	2405.9	2431.6
40°	2848.4	2878.6	2917.9	3019.1	3065.9	3017.5	2942.0	2786.5	2627.9	2550.9	2562.9
42.5°	3052.3	3065.9	3145.9	3265.2	3287.9	3266.7	3155.0	2966.2	2781.9	2697.4	2703.4
45°	3239.6	3257.7	3361.9	3469.1	3522.0	3485.7	3355.8	3176.1	2961.7	2889.2	2860.5
47.5°	3411.7	3448.0	3549.2	3659.4	3741.0	3744.0	3583.9	3366.4	3139.9	3044.7	3043.2
50°	3528.0	3580.9	3680.6	3805.9	3925.2	3972.0	3811.9	3577.9	3334.7	3233.5	3222.9
52.5°	3591.4	3645.8	3745.5	3940.3	4073.2	4145.7	4070.2	3775.7	3562.8	3457.0	3440.4
55°	3514.4	3550.7	3713.8	3987.1	4192.5	4311.9	4262.0	4049.1	3789.3	3703.2	3718.3
57.5°	3186.7	3262.2	3463.1	3804.4	4189.5	4482.5	4478.0	4307.3	4050.6	3969.0	3972.0
60°	2623.4	2686.8	2934.5	3411.7	4020.4	4552.0	4712.1	4558.0	4343.6	4248.4	4245.4
62.5°	1851.6	1931.6	2218.6	2739.6	3522.0	4455.3	4980.9	4873.7	4630.5	4561.0	4586.7
65°	1036.1	1084.4	1350.2	1821.4	2683.8	3923.7	5029.2	5201.4	4922.0	4816.3	4820.8
67.5°	554.3	572.4	696.2	956.0	1641.7	3025.1	4541.4	5390.2	5237.7	5054.9	5026.2
70°	380.6	386.6	418.3	489.3	776.3	1809.3	3425.3	5053.4	5474.8	5225.6	5273.9
72.5°	321.7	318.7	326.2	333.8	406.3	809.5	2010.2	3889.0	5168.2	5074.5	5056.4
75°	279.4	277.9	280.9	273.4	282.4	356.4	889.6	2424.0	3783.3	4222.7	4290.7
77.5°	231.1	232.6	234.1	226.5	223.5	235.6	357.9	1064.7	1862.2	2055.5	2217.1
80°	175.2	178.2	190.3	182.7	170.7	172.2	211.4	356.4	534.6	484.8	499.9
82.5°	119.3	120.8	146.5	137.4	128.4	116.3	135.9	184.3	208.4	158.6	138.9
85°	84.6	83.1	95.1	87.6	81.6	58.9	81.6	104.2	125.4	78.5	71.0
87.5°	19.6	19.6	39.3	31.7	30.2	24.2	31.7	40.8	54.4	34.7	31.7
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°	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8	1434.8
2.5°	1462.0	1448.4	1448.4	1445.3	1433.3	1430.2	1419.7	1422.7	1415.1	1407.6
5°	1513.3	1495.2	1495.2	1469.5	1445.3	1442.3	1430.2	1430.2	1418.2	1421.2
7.5°	1584.3	1567.7	1540.5	1517.8	1484.6	1471.0	1448.4	1445.3	1442.3	1436.3
10°	1668.9	1647.7	1620.5	1573.7	1546.5	1520.9	1498.2	1466.5	1458.9	1460.4
12.5°	1783.6	1750.4	1691.5	1650.7	1616.0	1582.8	1549.5	1502.7	1492.2	1496.7
15°	1865.2	1822.9	1764.0	1748.9	1702.1	1661.3	1606.9	1554.1	1536.0	1531.4
17.5°	1931.6	1896.9	1862.2	1839.5	1801.8	1751.9	1676.4	1616.0	1575.2	1570.7
20°	1986.0	1940.7	1933.2	1946.8	1899.9	1866.7	1774.6	1700.6	1646.2	1623.6
22.5°	2019.2	1990.5	2011.7	2023.8	2020.8	1964.9	1869.7	1783.6	1715.7	1694.5
25°	2055.5	2022.3	2097.8	2138.6	2149.1	2057.0	1983.0	1869.7	1803.3	1789.7
27.5°	2073.6	2085.7	2173.3	2259.4	2251.8	2180.8	2081.2	1980.0	1927.1	1903.0
30°	2126.5	2146.1	2279.0	2375.7	2377.2	2307.7	2232.2	2117.4	2058.5	2047.9
32.5°	2221.6	2245.8	2387.8	2490.5	2508.6	2455.7	2380.2	2309.2	2248.8	2224.6
35°	2294.1	2356.0	2516.1	2609.8	2658.1	2626.4	2584.1	2510.1	2446.7	2425.5
37.5°	2398.3	2484.4	2638.5	2765.3	2819.7	2816.7	2785.0	2704.9	2652.1	2633.9
40°	2547.8	2633.9	2774.4	2942.0	3043.2	3038.7	3020.6	2958.6	2880.1	2871.0
42.5°	2706.4	2777.4	2960.1	3152.0	3296.9	3281.8	3233.5	3161.0	3106.6	3094.6
45°	2860.5	2970.7	3139.9	3386.0	3494.8	3532.5	3475.2	3351.3	3289.4	3281.8
47.5°	3053.8	3141.4	3352.8	3573.3	3734.9	3741.0	3642.8	3528.0	3414.7	3438.9
50°	3226.0	3342.3	3556.7	3798.4	3991.7	3922.2	3796.8	3653.4	3571.8	3540.1
52.5°	3410.2	3552.2	3801.4	4047.6	4154.8	4085.3	3881.4	3721.3	3597.5	3583.9
55°	3679.0	3753.0	4079.3	4268.1	4302.8	4156.3	3855.7	3629.2	3469.1	3429.8
57.5°	3952.4	4038.5	4323.9	4487.0	4450.8	4117.0	3689.6	3339.2	3129.3	3073.4
60°	4228.8	4334.5	4574.6	4724.2	4536.9	3846.7	3219.9	2768.3	2523.7	2473.8
62.5°	4536.9	4674.3	4888.8	4941.6	4281.6	3312.0	2555.4	1998.1	1750.4	1667.3
65°	4810.2	4950.7	5215.0	4896.3	3739.5	2470.8	1652.2	1141.8	959.0	892.6
67.5°	5035.3	5193.9	5323.7	4333.0	2738.1	1446.8	860.9	601.1	533.1	509.0
70°	5213.5	5477.8	4870.7	3185.2	1564.7	705.3	465.2	395.7	386.6	380.6
72.5°	5057.9	5023.2	3636.8	1838.0	685.7	388.1	336.8	326.2	324.7	326.2
75°	4136.7	3689.6	2174.8	798.9	344.3	280.9	279.4	274.9	282.4	282.4
77.5°	2007.2	1754.9	909.2	342.8	226.5	220.5	228.1	228.1	228.1	228.1
80°	465.2	515.0	324.7	208.4	164.6	164.6	181.2	182.7	175.2	172.2
82.5°	158.6	211.4	178.2	131.4	108.7	122.3	137.4	140.5	116.3	117.8
85°	78.5	123.8	96.7	75.5	55.9	75.5	89.1	93.6	80.0	77.0
87.5°	36.2	54.4	36.2	25.7	19.6	27.2	25.7	21.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)