

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: P481119

Luminaire Tested: **IFLD-S-SA2E-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481119
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

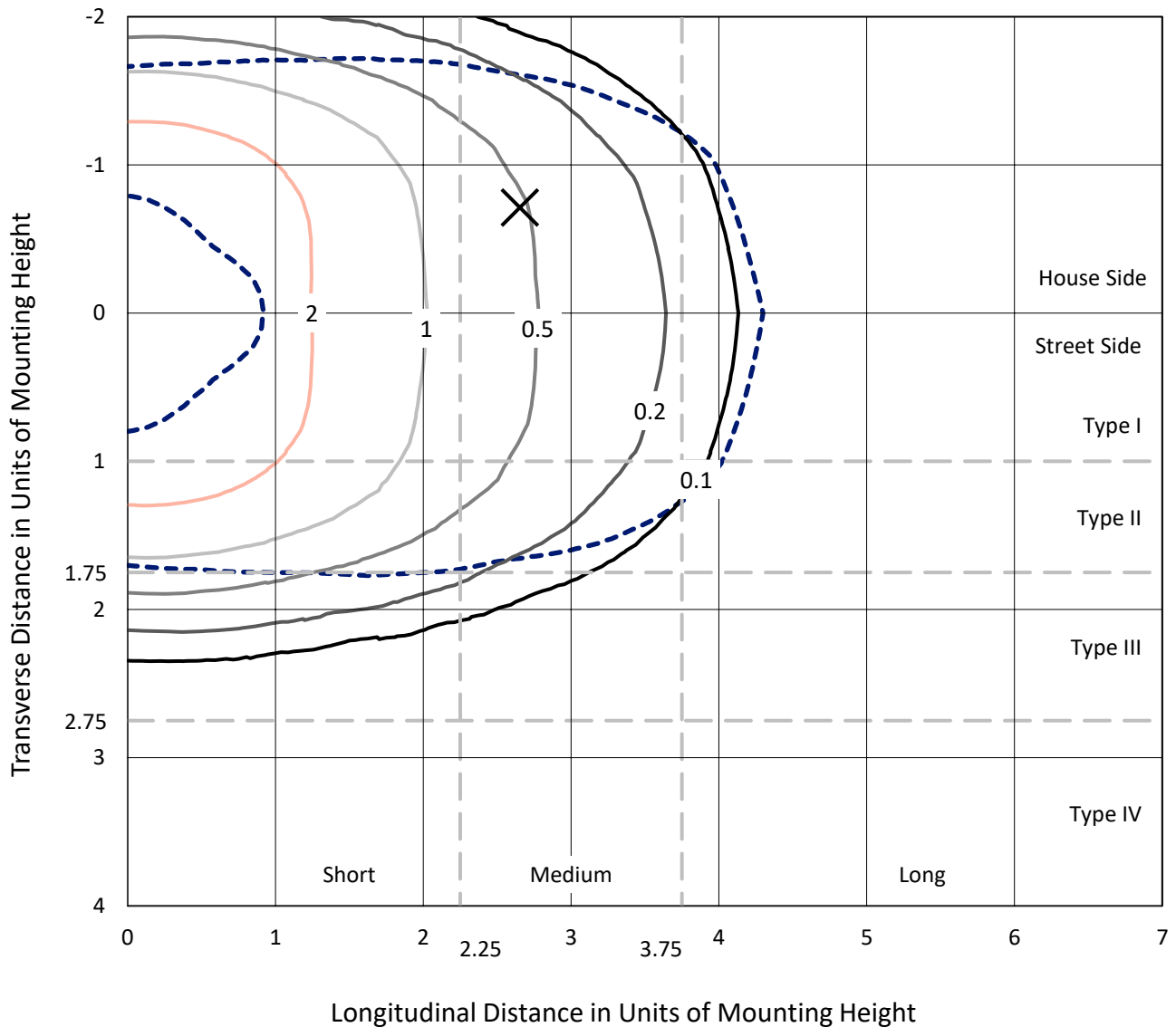
Lumens per Lamp: N/A
Luminaire Lumens: 13732.3 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

REPORT NUMBER: P481119
 CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

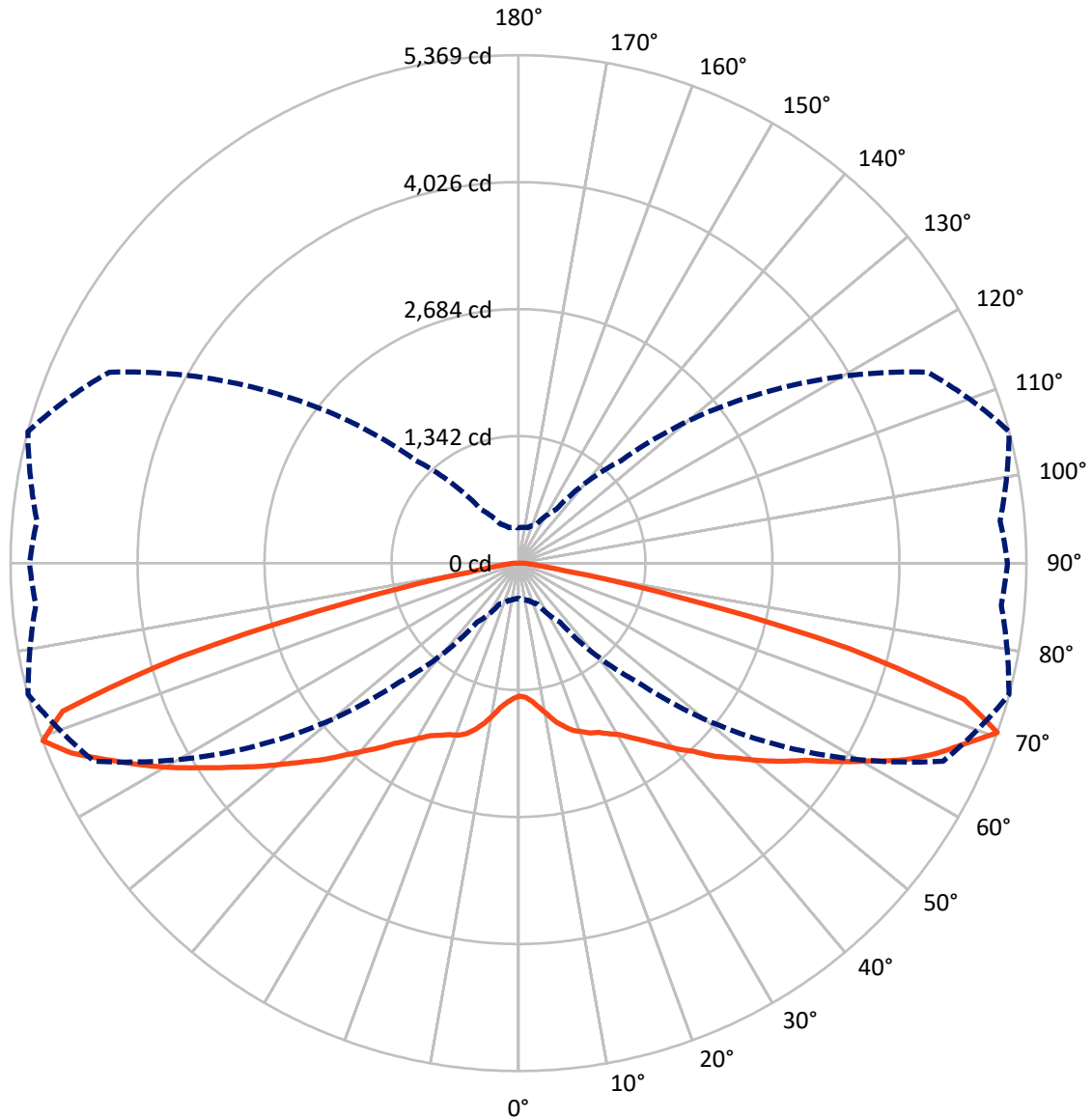
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P481119
CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481119
 CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

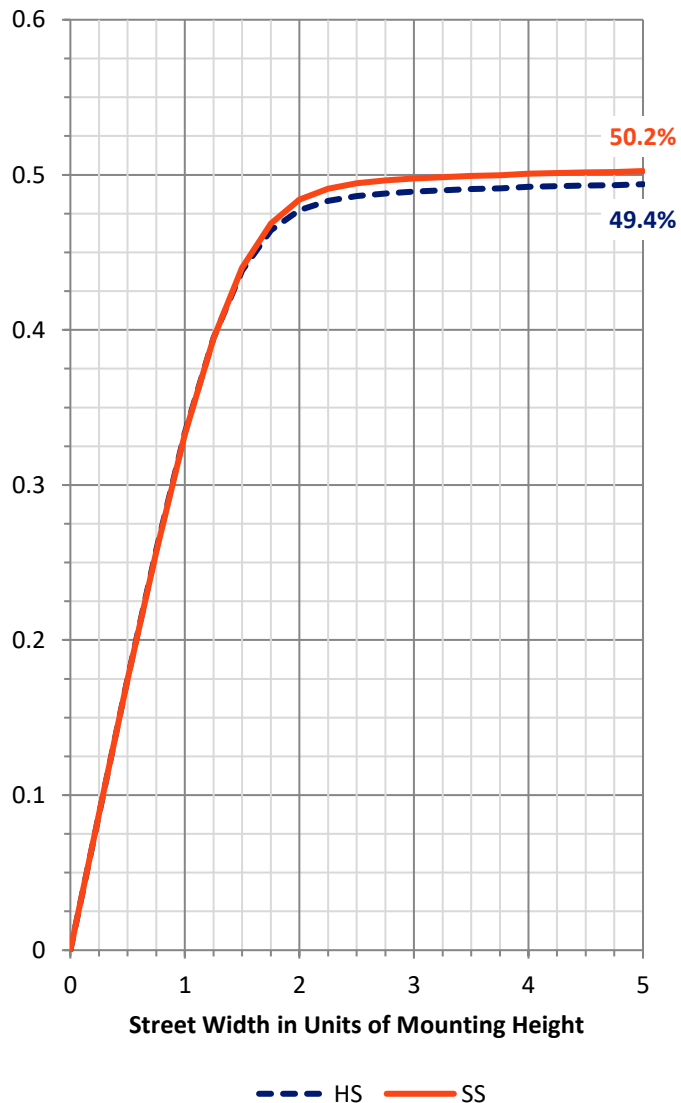
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6817.3	0.0	6817.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6915.0	0.0	6915.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	13732.3	0.0	13732.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.0
10°-20°	476.6	3.5
20°-30°	922.8	6.7
30°-40°	1560.8	11.4
40°-50°	2489.9	18.1
50°-60°	3408.2	24.8
60°-70°	3212.4	23.4
70°-80°	1415.2	10.3
80°-90°	106.5	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°	13732.3	100.0
0°-180°	13732.3	100.0

Coefficient of Utilization

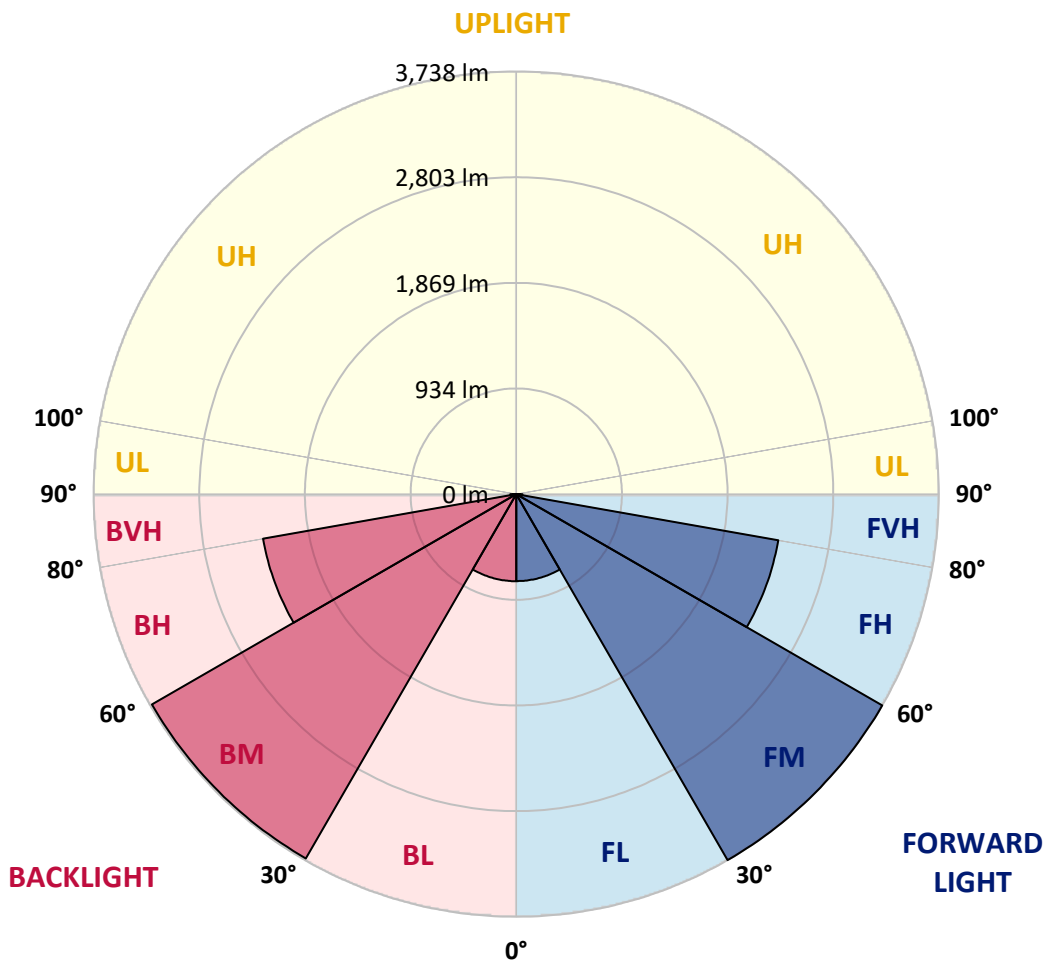


REPORT NUMBER: P481119
 CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.2	5.6			
FM (30°-60°)	3737.8	27.2			
FH (60°-80°)	2353.6	17.1			G2/5000
FVH (80°-90°)	54.4	0.4			G1/100
BL (0°-30°)	770.1	5.6	B2/1000		
BM (30°-60°)	3721.1	27.1	B3/5000		
BH (60°-80°)	2274.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	52.1	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





REPORT NUMBER: P481119

CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1397.3	1397.3	1395.8	1403.2	1410.6	1413.6	1419.5	1421.0	1429.9	1422.5	1437.3
5°	1392.9	1391.4	1403.2	1421.0	1421.0	1440.2	1452.1	1468.3	1472.8	1481.7	1484.6
7.5°	1423.9	1421.0	1415.1	1434.3	1450.6	1480.2	1496.5	1524.6	1535.0	1546.8	1560.1
10°	1443.2	1443.2	1437.3	1471.3	1486.1	1526.1	1561.6	1589.7	1629.7	1643.0	1644.5
12.5°	1446.1	1450.6	1468.3	1512.7	1554.2	1606.0	1632.6	1685.9	1725.9	1751.1	1759.9
15°	1490.5	1481.7	1500.9	1561.6	1622.3	1668.2	1715.5	1754.0	1811.7	1844.3	1865.0
17.5°	1530.5	1521.6	1557.2	1629.7	1691.9	1762.9	1804.3	1845.8	1887.2	1916.8	1918.3
20°	1594.2	1601.6	1632.6	1711.1	1792.5	1854.7	1902.0	1909.4	1930.2	1973.1	1965.7
22.5°	1672.6	1666.7	1731.8	1817.7	1906.5	1958.3	1984.9	1965.7	1955.3	2001.2	2011.6
25°	1751.1	1768.8	1828.0	1908.0	2014.5	2084.1	2091.5	2038.2	1999.7	2016.0	2011.6
27.5°	1871.0	1873.9	1936.1	2030.8	2138.9	2199.6	2195.1	2119.6	2045.6	2047.1	2050.1
30°	2024.9	2010.1	2078.2	2164.0	2270.6	2325.4	2332.8	2224.7	2125.5	2095.9	2103.3
32.5°	2172.9	2190.7	2249.9	2347.6	2426.0	2457.1	2440.8	2344.6	2215.8	2175.9	2180.3
35°	2362.4	2359.4	2440.8	2523.7	2582.9	2588.8	2575.5	2434.9	2313.5	2261.7	2241.0
37.5°	2565.2	2591.8	2645.1	2713.2	2775.3	2778.3	2705.8	2593.3	2443.8	2357.9	2383.1
40°	2791.6	2821.2	2859.7	2958.9	3004.8	2957.4	2883.4	2730.9	2575.5	2500.0	2511.9
42.5°	2991.5	3004.8	3083.2	3200.2	3222.4	3201.6	3092.1	2907.1	2726.5	2643.6	2649.5
45°	3175.0	3192.8	3294.9	3400.0	3451.8	3416.3	3289.0	3112.8	2902.6	2831.6	2803.5
47.5°	3343.7	3379.3	3478.4	3586.5	3666.4	3669.4	3512.5	3299.3	3077.3	2984.1	2982.6
50°	3457.7	3509.5	3607.2	3730.1	3847.0	3892.9	3736.0	3506.6	3268.2	3169.1	3158.7
52.5°	3519.9	3573.2	3670.9	3861.8	3992.1	4063.1	3989.1	3700.5	3491.8	3388.1	3371.9
55°	3444.4	3479.9	3639.8	3907.7	4109.0	4225.9	4177.1	3968.4	3713.8	3629.4	3644.2
57.5°	3123.2	3197.2	3394.1	3728.6	4106.0	4393.2	4388.7	4221.5	3969.9	3889.9	3892.9
60°	2571.1	2633.2	2876.0	3343.7	3940.3	4461.3	4618.2	4467.2	4257.0	4163.8	4160.8
62.5°	1814.7	1893.2	2174.4	2685.1	3451.8	4366.5	4881.7	4776.6	4538.2	4470.2	4495.3
65°	1015.4	1062.8	1323.3	1785.1	2630.3	3845.5	4929.0	5097.8	4823.9	4720.3	4724.8
67.5°	543.2	561.0	682.4	937.0	1609.0	2964.8	4450.9	5282.8	5133.3	4954.2	4926.1
70°	373.0	378.9	410.0	479.6	760.8	1773.3	3357.1	4952.7	5365.7	5121.4	5168.8
72.5°	315.3	312.3	319.7	327.1	398.2	793.4	1970.1	3811.5	5065.2	4973.4	4955.7
75°	273.8	272.4	275.3	267.9	276.8	349.3	871.8	2375.7	3707.9	4138.6	4205.2
77.5°	226.5	227.9	229.4	222.0	219.1	230.9	350.8	1043.5	1825.1	2014.5	2172.9
80°	171.7	174.7	186.5	179.1	167.3	168.7	207.2	349.3	524.0	475.1	489.9
82.5°	116.9	118.4	143.6	134.7	125.8	114.0	133.2	180.6	204.3	155.4	136.2
85°	82.9	81.4	93.3	85.9	79.9	57.7	79.9	102.1	122.9	77.0	69.6
87.5°	19.2	19.2	38.5	31.1	29.6	23.7	31.1	40.0	53.3	34.0	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481119

CATALOG NUMBER: IFLD-S-SA2E-722-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1432.8	1419.5	1419.5	1416.5	1404.7	1401.7	1391.4	1394.3	1386.9	1379.5
5°	1483.1	1465.4	1465.4	1440.2	1416.5	1413.6	1401.7	1401.7	1389.9	1392.9
7.5°	1552.7	1536.4	1509.8	1487.6	1455.0	1441.7	1419.5	1416.5	1413.6	1407.7
10°	1635.6	1614.9	1588.2	1542.4	1515.7	1490.5	1468.3	1437.3	1429.9	1431.3
12.5°	1748.1	1715.5	1657.8	1617.8	1583.8	1551.2	1518.7	1472.8	1462.4	1466.9
15°	1828.0	1786.6	1728.9	1714.1	1668.2	1628.2	1574.9	1523.1	1505.3	1500.9
17.5°	1893.2	1859.1	1825.1	1802.9	1765.9	1717.0	1643.0	1583.8	1543.8	1539.4
20°	1946.4	1902.0	1894.6	1908.0	1862.1	1829.5	1739.2	1666.7	1613.4	1591.2
22.5°	1979.0	1950.9	1971.6	1983.4	1980.5	1925.7	1832.5	1748.1	1681.5	1660.8
25°	2014.5	1982.0	2056.0	2095.9	2106.3	2016.0	1943.5	1832.5	1767.3	1754.0
27.5°	2032.3	2044.1	2130.0	2214.4	2207.0	2137.4	2039.7	1940.5	1888.7	1865.0
30°	2084.1	2103.3	2233.6	2328.3	2329.8	2261.7	2187.7	2075.2	2017.5	2007.1
32.5°	2177.4	2201.0	2340.2	2440.8	2458.6	2406.8	2332.8	2263.2	2204.0	2180.3
35°	2248.4	2309.1	2466.0	2557.8	2605.1	2574.0	2532.6	2460.1	2397.9	2377.2
37.5°	2350.5	2434.9	2585.9	2710.2	2763.5	2760.5	2729.5	2651.0	2599.2	2581.4
40°	2497.1	2581.4	2719.1	2883.4	2982.6	2978.1	2960.4	2899.7	2822.7	2813.8
42.5°	2652.5	2722.1	2901.2	3089.1	3231.2	3216.4	3169.1	3098.0	3044.7	3032.9
45°	2803.5	2911.5	3077.3	3318.6	3425.1	3462.2	3405.9	3284.5	3223.8	3216.4
47.5°	2992.9	3078.8	3286.0	3502.1	3660.5	3666.4	3570.2	3457.7	3346.7	3370.4
50°	3161.7	3275.6	3485.8	3722.7	3912.1	3844.0	3721.2	3580.6	3500.6	3469.6
52.5°	3342.3	3481.4	3725.6	3966.9	4072.0	4003.9	3804.1	3647.2	3525.8	3512.5
55°	3605.7	3678.3	3998.0	4183.0	4217.0	4073.5	3778.9	3556.9	3400.0	3361.5
57.5°	3873.6	3958.0	4237.8	4397.6	4362.1	4035.0	3616.1	3272.7	3066.9	3012.2
60°	4144.5	4248.1	4483.5	4630.0	4446.5	3770.0	3155.8	2713.2	2473.4	2424.5
62.5°	4446.5	4581.2	4791.4	4843.2	4196.3	3246.0	2504.5	1958.3	1715.5	1634.1
65°	4714.4	4852.0	5111.1	4798.8	3664.9	2421.6	1619.3	1119.0	939.9	874.8
67.5°	4934.9	5090.4	5217.7	4246.7	2683.6	1418.0	843.7	589.1	522.5	498.8
70°	5109.6	5368.6	4773.6	3121.7	1533.5	691.2	455.9	387.8	378.9	373.0
72.5°	4957.1	4923.1	3564.3	1801.4	672.0	380.4	330.1	319.7	318.2	319.7
75°	4054.2	3616.1	2131.5	783.0	337.5	275.3	273.8	269.4	276.8	276.8
77.5°	1967.2	1720.0	891.1	336.0	222.0	216.1	223.5	223.5	223.5	223.5
80°	455.9	504.7	318.2	204.3	161.3	161.3	177.6	179.1	171.7	168.7
82.5°	155.4	207.2	174.7	128.8	106.6	119.9	134.7	137.7	114.0	115.5
85°	77.0	121.4	94.7	74.0	54.8	74.0	87.3	91.8	78.4	75.5
87.5°	35.5	53.3	35.5	25.2	19.2	26.6	25.2	20.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)