

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: P478893

Luminaire Tested: **IFLD-S-SA2B-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478893
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

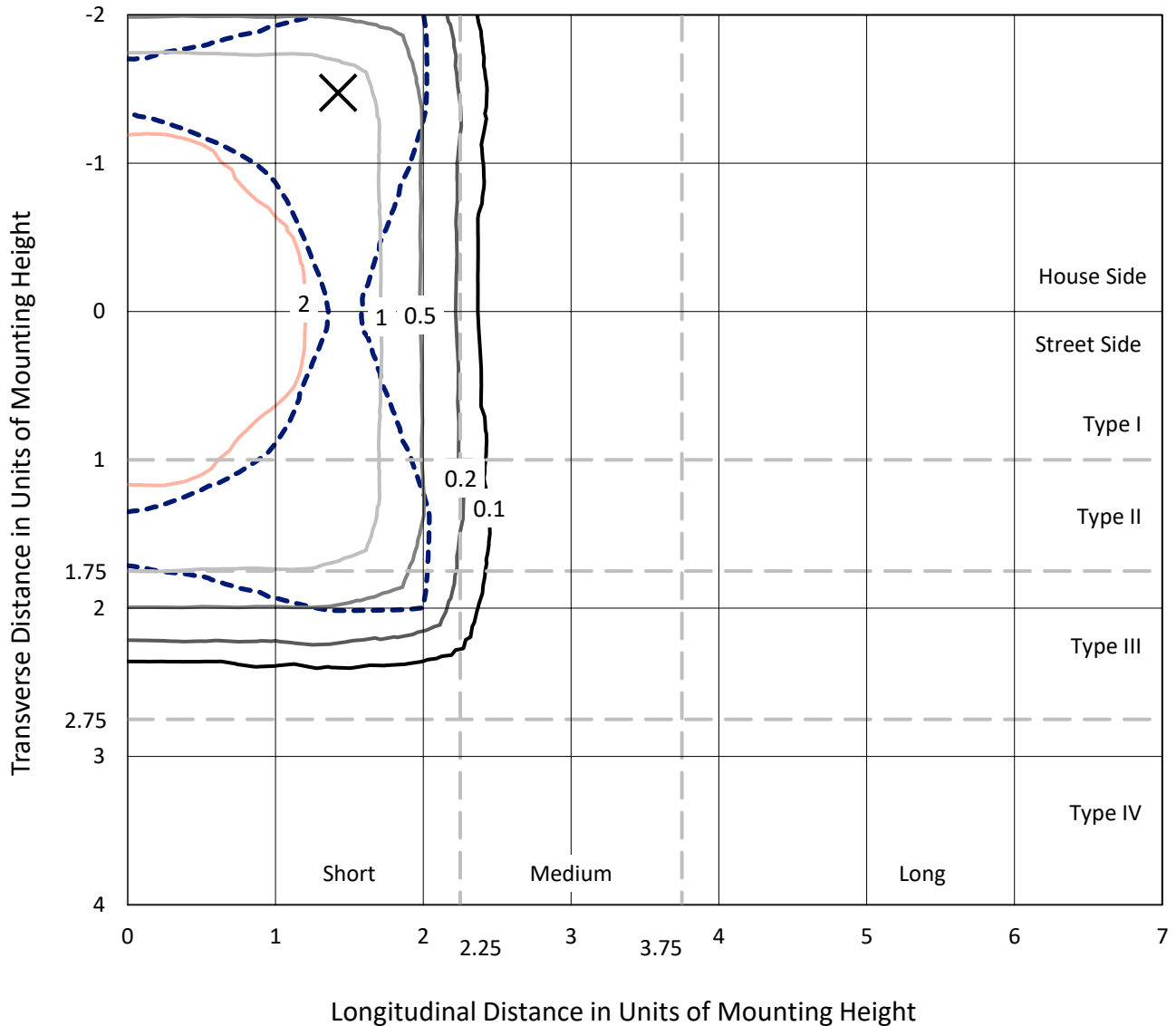
Lumens per Lamp: N/A
Luminaire Lumens: 11231.8 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

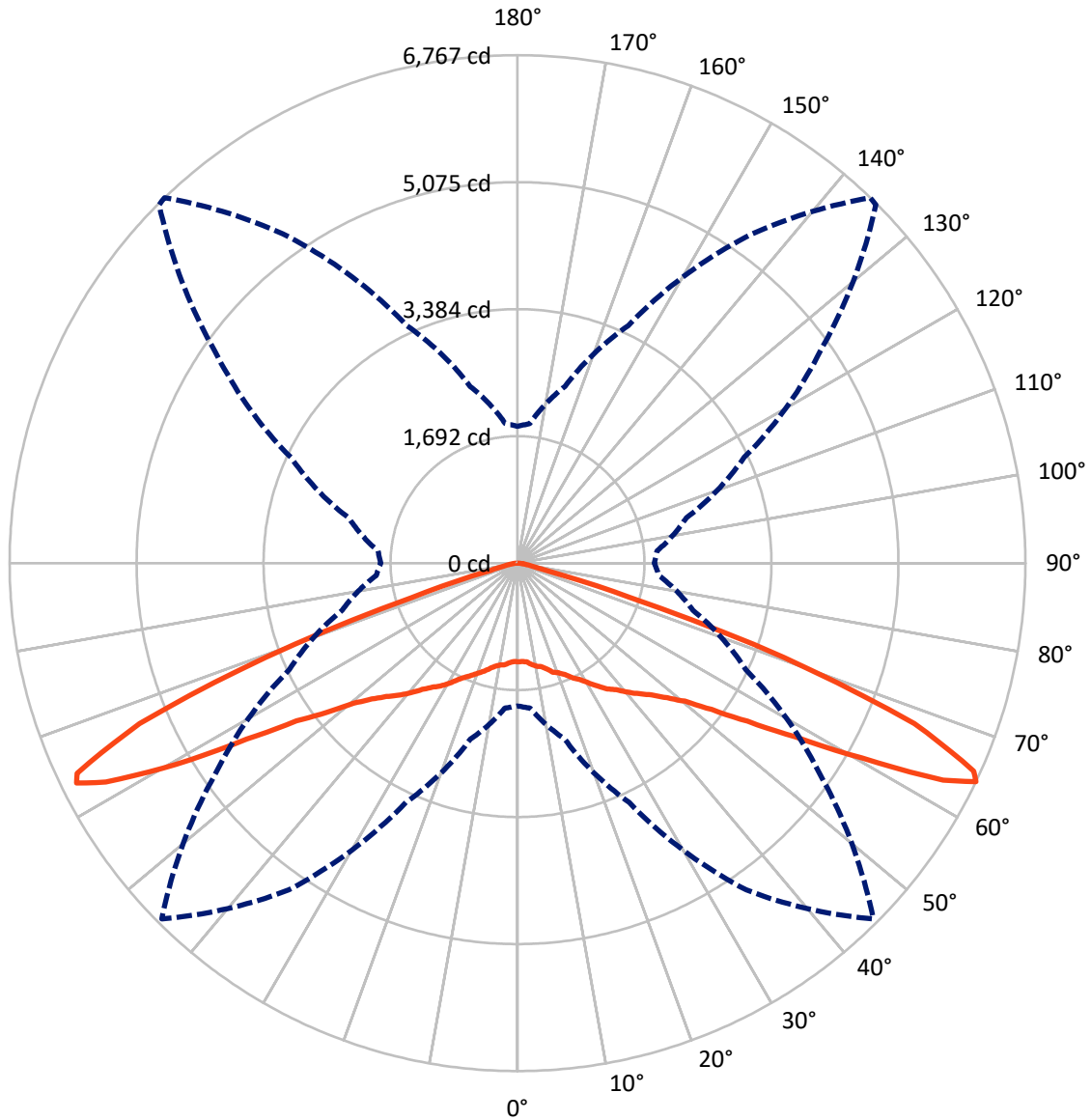
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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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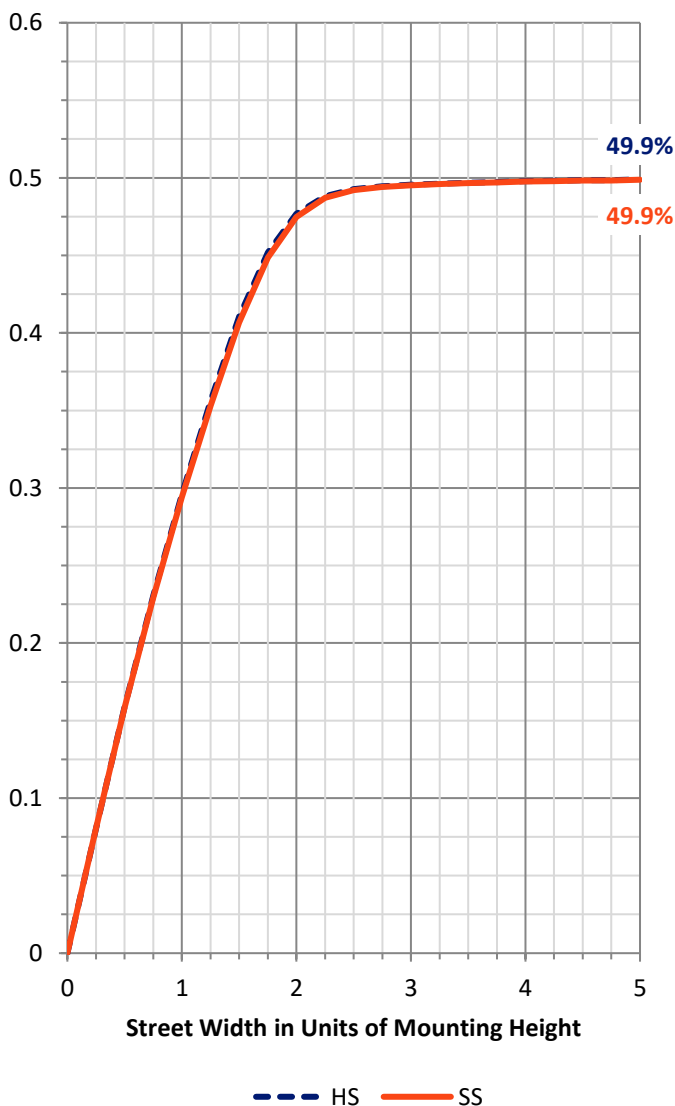
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5621.2	0.0	5621.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5610.5	0.0	5610.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11231.8	0.0	11231.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.2
10°-20°	416.4	3.7
20°-30°	782.7	7.0
30°-40°	1290.8	11.5
40°-50°	2018.6	18.0
50°-60°	3261.6	29.0
60°-70°	2936.9	26.1
70°-80°	347.9	3.1
80°-90°	47.6	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°	11231.8	100.0
0°-180°	11231.8	100.0

Coefficient of Utilization



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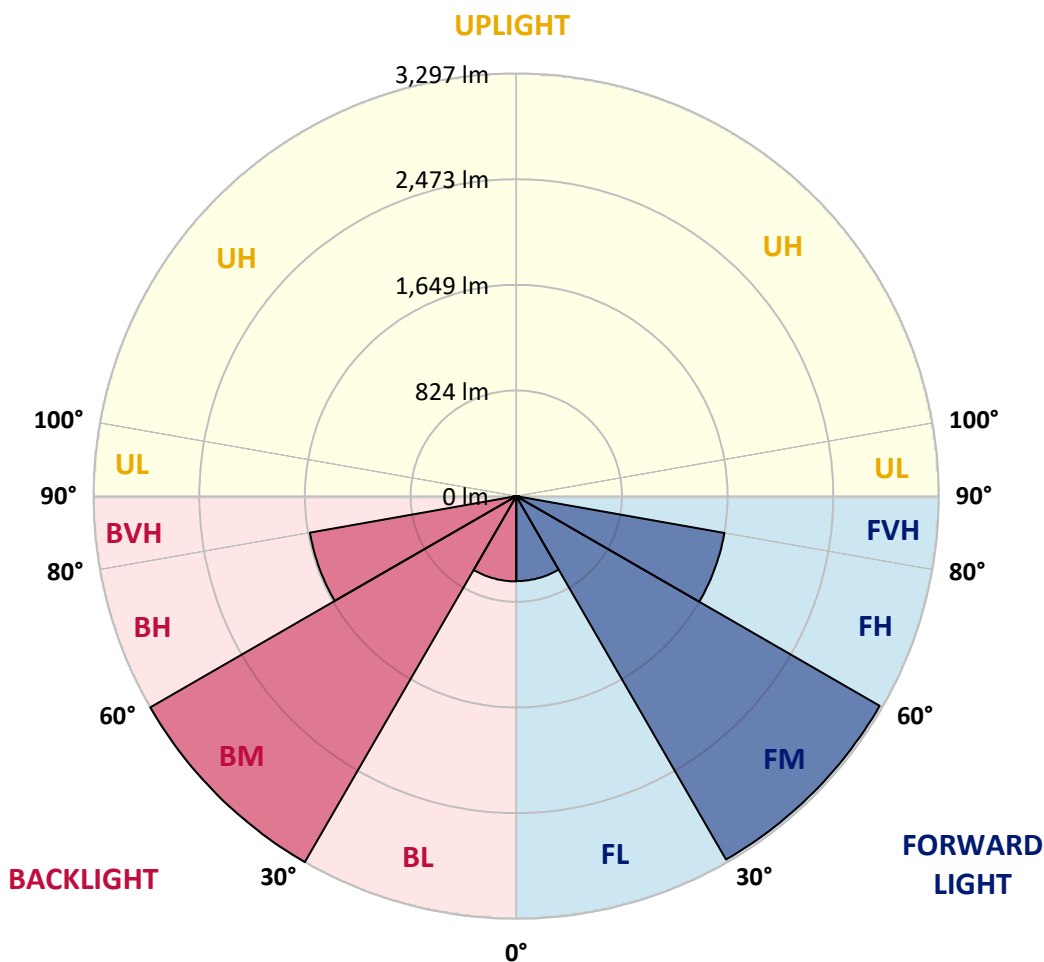
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.9	5.9			
FM (30°-60°)	3273.7	29.1			
FH (60°-80°)	1649.5	14.7			G1/1800
FVH (80°-90°)	24.4	0.2			G1/100
BL (0°-30°)	665.4	5.9	B2/1000		
BM (30°-60°)	3297.3	29.4	B3/5000		
BH (60°-80°)	1635.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	23.2	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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1299.6	1302.1	1325.3	1316.3	1324.0	1309.9	1320.2	1342.1	1316.3	1335.6	1342.1
5°	1313.7	1317.6	1317.6	1326.6	1331.8	1329.2	1335.6	1326.6	1351.1	1340.8	1356.2
7.5°	1365.2	1358.8	1348.5	1356.2	1357.5	1364.0	1370.4	1382.0	1378.1	1369.1	1384.6
10°	1374.3	1369.1	1384.6	1385.8	1379.4	1374.3	1380.7	1380.7	1392.3	1394.9	1394.9
12.5°	1389.7	1394.9	1393.6	1403.9	1405.2	1401.3	1411.6	1430.9	1425.8	1429.6	1420.6
15°	1449.0	1442.5	1441.2	1451.5	1468.3	1443.8	1461.8	1460.5	1455.4	1463.1	1442.5
17.5°	1500.5	1479.9	1488.9	1505.6	1499.2	1504.3	1527.5	1506.9	1512.1	1503.1	1496.6
20°	1545.6	1528.8	1530.1	1536.5	1536.5	1552.0	1561.0	1553.3	1548.1	1546.8	1549.4
22.5°	1595.8	1576.5	1577.8	1604.8	1613.8	1608.7	1602.2	1615.1	1617.7	1607.4	1619.0
25°	1633.1	1653.7	1660.2	1673.1	1653.7	1667.9	1662.8	1687.2	1702.7	1682.1	1696.2
27.5°	1731.0	1722.0	1738.7	1737.5	1752.9	1738.7	1747.8	1755.5	1761.9	1763.2	1756.8
30°	1818.6	1822.5	1805.7	1850.8	1814.7	1837.9	1853.4	1857.2	1865.0	1865.0	1845.6
32.5°	1911.3	1903.6	1930.7	1920.4	1913.9	1931.9	1915.2	1968.0	1937.1	1955.1	1933.2
35°	2015.7	2015.7	2026.0	2054.3	2015.7	2004.1	2035.0	2056.9	2056.9	2024.7	2032.4
37.5°	2132.9	2122.6	2135.4	2171.5	2141.9	2103.2	2159.9	2168.9	2162.5	2153.5	2138.0
40°	2215.3	2212.7	2238.5	2286.1	2243.6	2235.9	2246.2	2270.7	2278.4	2287.4	2266.8
42.5°	2354.4	2366.0	2440.7	2429.1	2394.3	2367.3	2364.7	2456.1	2434.2	2411.1	2399.5
45°	2560.5	2550.2	2588.8	2590.1	2545.0	2485.8	2498.6	2582.4	2619.7	2568.2	2587.5
47.5°	2724.0	2729.2	2756.2	2811.6	2707.3	2645.5	2693.1	2828.4	2816.8	2797.5	2815.5
50°	2943.0	2966.2	3051.2	3031.9	2939.1	2863.1	2967.5	3095.0	3109.1	3038.3	3025.4
52.5°	3245.7	3281.7	3328.1	3343.5	3254.7	3227.6	3234.1	3392.5	3357.7	3289.5	3245.7
55°	3511.0	3527.7	3612.7	3740.2	3733.8	3603.7	3678.4	3737.7	3596.0	3455.6	3467.2
57.5°	3624.3	3632.1	3869.0	4124.1	4276.0	4305.7	4220.7	4021.0	3683.6	3413.1	3396.4
60°	3342.3	3415.7	3701.6	4277.3	4971.5	5314.1	4748.7	4053.2	3478.8	3150.4	3125.9
62.5°	2671.2	2675.1	3100.1	3973.4	5404.3	6302.0	4950.9	3750.5	2932.7	2560.5	2462.6
64°	1902.3	1938.4	2426.5	3517.4	5314.1	6703.8	4926.5	3355.1	2417.5	1889.4	1821.2
65°	1365.2	1415.5	1886.9	3053.8	5102.9	6656.2	4853.0	3015.1	1955.1	1442.5	1373.0
67.5°	502.3	522.9	740.6	1527.5	3664.3	5672.2	3845.9	1657.6	859.1	611.8	550.0
70°	233.1	234.4	274.3	504.9	1602.2	3793.0	1835.3	622.1	323.3	256.3	238.3
72.5°	171.3	175.2	191.9	233.1	471.4	1606.1	602.8	255.0	189.3	167.4	163.6
75°	139.1	141.7	146.8	168.7	217.7	430.2	244.7	176.5	150.7	135.2	130.1
77.5°	106.9	106.9	118.5	128.8	144.3	200.9	162.3	140.4	122.4	106.9	103.0
80°	77.3	78.6	92.7	100.5	97.9	132.7	117.2	115.9	100.5	83.7	77.3
82.5°	45.1	48.9	67.0	72.1	69.5	78.6	85.0	90.2	78.6	58.0	52.8
85°	25.8	27.0	38.6	39.9	39.9	37.4	48.9	54.1	52.8	36.1	32.2
87.5°	7.7	7.7	10.3	10.3	11.6	12.9	19.3	23.2	25.8	18.0	16.7
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°	136°	145°	155°	165°	175°	180°
0°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1335.6	1316.3	1317.6	1322.7	1306.0	1312.4	1331.8	1317.6	1313.7	1306.0	1302.1
5°	1329.2	1349.8	1342.1	1344.6	1340.8	1322.7	1320.2	1331.8	1338.2	1326.6	1349.8
7.5°	1374.3	1365.2	1354.9	1358.8	1349.8	1365.2	1375.5	1352.4	1364.0	1357.5	1344.6
10°	1400.0	1383.3	1391.0	1388.4	1382.0	1397.4	1387.1	1384.6	1374.3	1360.1	1380.7
12.5°	1409.0	1428.3	1441.2	1419.3	1423.2	1415.5	1409.0	1409.0	1397.4	1393.6	1397.4
15°	1449.0	1465.7	1460.5	1477.3	1455.4	1463.1	1470.9	1451.5	1461.8	1433.5	1455.4
17.5°	1522.4	1508.2	1526.2	1504.3	1512.1	1527.5	1503.1	1503.1	1510.8	1495.3	1476.0
20°	1568.7	1562.3	1555.9	1557.1	1544.3	1558.4	1550.7	1546.8	1535.3	1540.4	1550.7
22.5°	1612.5	1603.5	1606.1	1610.0	1619.0	1612.5	1608.7	1612.5	1584.2	1610.0	1573.9
25°	1666.6	1691.1	1683.4	1700.1	1674.4	1691.1	1689.8	1665.3	1680.8	1670.5	1662.8
27.5°	1756.8	1743.9	1755.5	1734.9	1752.9	1754.2	1738.7	1780.0	1761.9	1759.4	1754.2
30°	1872.7	1863.7	1856.0	1844.4	1858.5	1846.9	1859.8	1863.7	1846.9	1834.1	1809.6
32.5°	1938.4	1962.9	1971.9	1943.5	1944.8	1951.3	1939.7	1928.1	1938.4	1942.2	1938.4
35°	2031.1	2054.3	2059.5	2037.6	2026.0	2058.2	2035.0	2073.6	2040.1	2041.4	2006.6
37.5°	2139.3	2145.7	2189.5	2165.1	2154.8	2139.3	2181.8	2176.7	2184.4	2122.6	2153.5
40°	2261.7	2284.8	2309.3	2247.5	2246.2	2260.4	2257.8	2287.4	2273.3	2264.2	2242.3
42.5°	2395.6	2444.6	2448.4	2407.2	2381.4	2378.9	2391.7	2457.4	2458.7	2399.5	2373.7
45°	2573.3	2627.4	2613.3	2533.4	2505.1	2501.2	2564.3	2592.7	2617.1	2594.0	2572.1
47.5°	2794.9	2830.9	2820.6	2747.2	2655.8	2681.5	2743.4	2832.2	2806.5	2775.6	2749.8
50°	3031.9	3074.4	3052.5	2979.1	2891.5	2891.5	2967.5	3080.8	3073.1	3012.5	2989.4
52.5°	3294.6	3356.4	3406.7	3302.3	3228.9	3240.5	3360.3	3401.5	3382.2	3339.7	3320.4
55°	3490.4	3608.9	3711.9	3717.1	3720.9	3719.6	3750.5	3791.8	3653.9	3585.7	3516.1
57.5°	3442.7	3666.8	4019.7	4259.3	4330.1	4367.5	4357.2	4166.6	3840.7	3616.6	3639.8
60°	3102.7	3468.5	4037.8	4806.7	5321.9	5270.3	5082.3	4328.8	3737.7	3359.0	3311.3
62.5°	2475.5	2915.9	3735.1	4961.2	6380.6	6365.1	5381.1	3954.0	3114.3	2635.2	2605.5
64°	1865.0	2328.6	3332.0	4921.3	6751.5	6767.0	5305.1	3493.0	2436.8	1865.0	1819.9
65°	1427.1	1857.2	2936.6	4838.9	6671.6	6680.7	5093.9	3016.4	1852.1	1324.0	1275.1
67.5°	568.0	790.8	1593.2	3669.4	5728.9	5704.4	3634.6	1459.3	708.4	461.1	452.1
70°	242.1	301.4	559.0	1738.7	3835.6	3764.7	1564.9	474.0	262.7	220.2	219.0
72.5°	166.1	184.2	239.6	537.1	1594.5	1557.1	445.6	220.2	179.0	164.9	164.9
75°	133.9	146.8	173.9	225.4	422.5	407.0	209.9	162.3	143.0	132.7	131.4
77.5°	104.3	117.2	136.5	155.8	193.2	191.9	140.4	122.4	110.8	103.0	100.5
80°	82.4	95.3	108.2	110.8	126.2	123.6	95.3	96.6	90.2	74.7	73.4
82.5°	56.7	77.3	86.3	78.6	74.7	74.7	68.3	68.3	63.1	46.4	42.5
85°	34.8	51.5	54.1	46.4	34.8	34.8	37.4	36.1	33.5	24.5	23.2
87.5°	18.0	24.5	21.9	18.0	11.6	11.6	10.3	7.7	7.7	6.4	6.4
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)