

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: P479190

Luminaire Tested: **IFLD-M-SA4A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479190
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

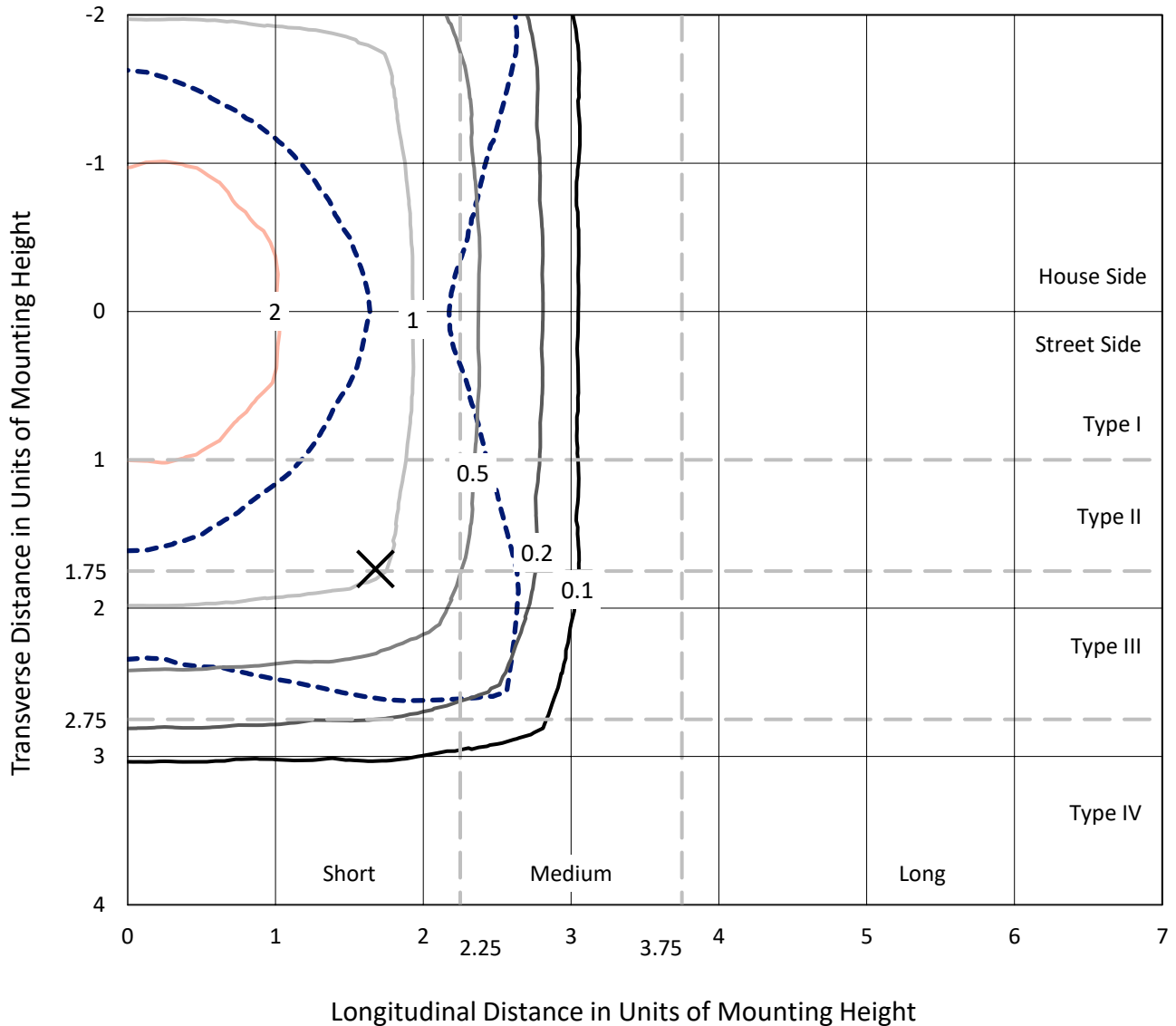
Lumens per Lamp: N/A
Luminaire Lumens: 13731 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

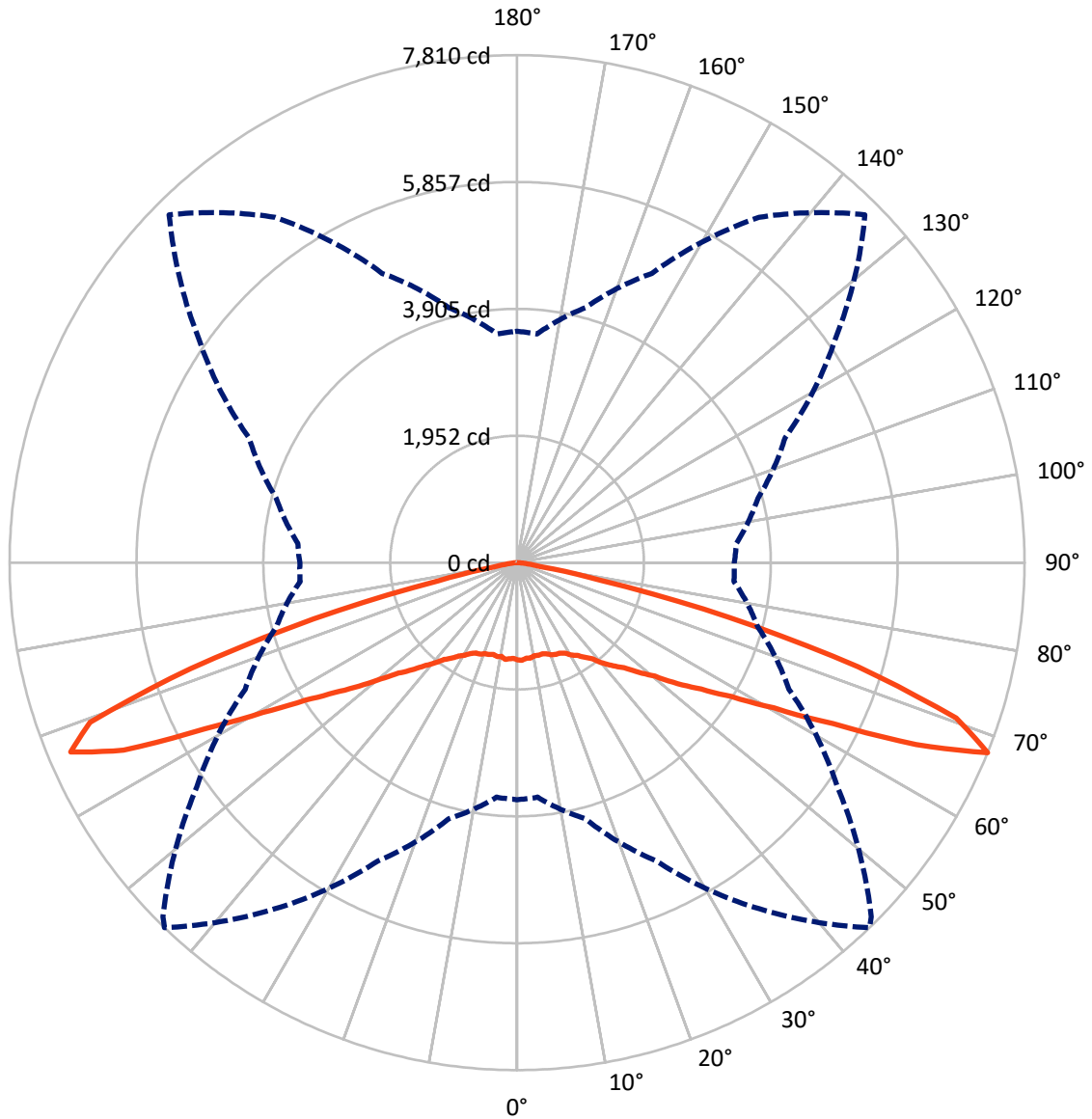
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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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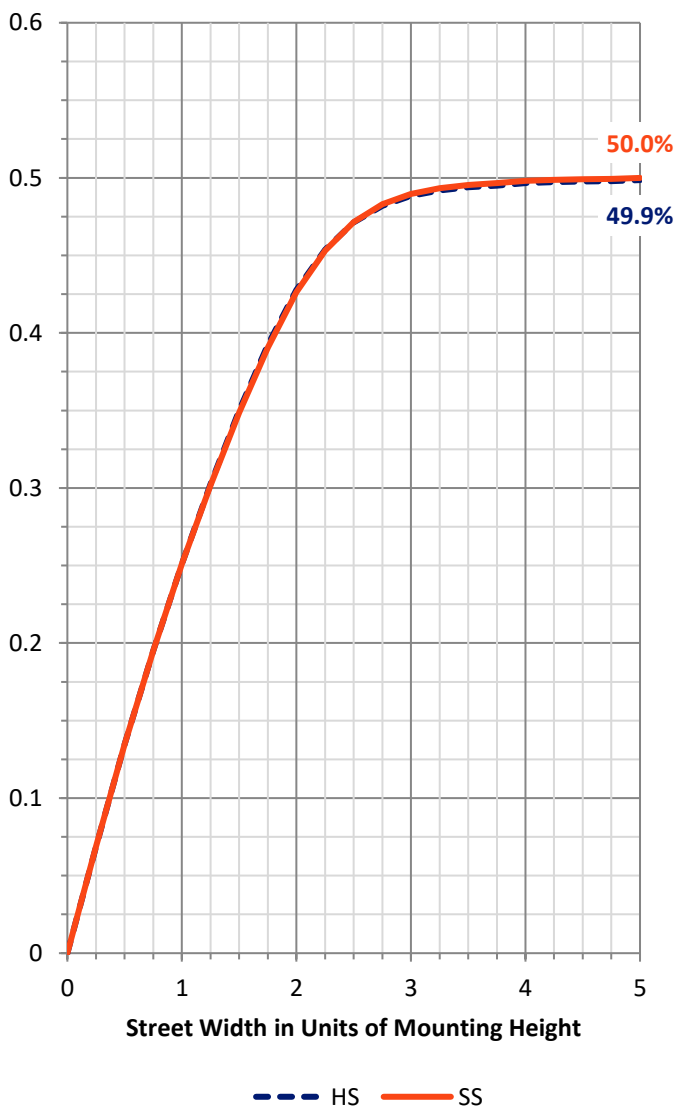
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6847.9	0.0	6847.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6883.1	0.0	6883.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	13731.0	0.0	13731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.0
10°-20°	414.7	3.0
20°-30°	705.1	5.1
30°-40°	1118.0	8.1
40°-50°	1823.0	13.3
50°-60°	3113.5	22.7
60°-70°	4735.6	34.5
70°-80°	1596.2	11.6
80°-90°	82.9	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°	13731.0	100.0
0°-180°	13731.0	100.0

Coefficient of Utilization



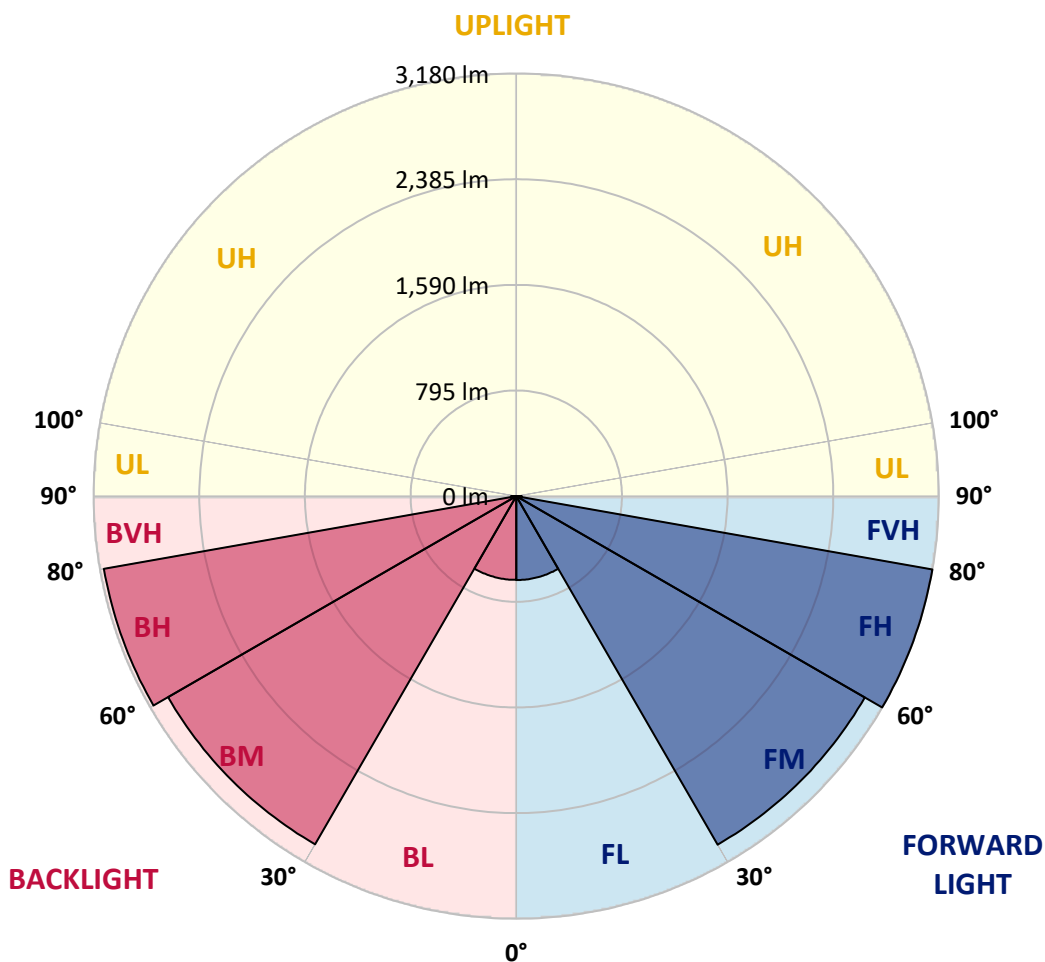
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.5	4.6			
FM (30°-60°)	3028.9	22.1			
FH (60°-80°)	3180.3	23.2			G2/5000
FVH (80°-90°)	42.4	0.3			G1/100
BL (0°-30°)	630.2	4.6	B2/1000		
BM (30°-60°)	3025.7	22.0	B3/5000		
BH (60°-80°)	3151.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	40.5	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°	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9
2.5°	1465.4	1482.6	1495.2	1493.6	1498.3	1503.0	1496.7	1506.1	1499.9	1510.9	1517.1
5°	1493.6	1488.9	1490.5	1481.1	1503.0	1477.9	1477.9	1490.5	1506.1	1487.3	1498.3
7.5°	1476.4	1473.2	1465.4	1479.5	1484.2	1484.2	1496.7	1473.2	1499.9	1506.1	1507.7
10°	1457.6	1440.3	1463.8	1477.9	1481.1	1456.0	1467.0	1473.2	1465.4	1473.2	1477.9
12.5°	1441.9	1451.3	1451.3	1451.3	1446.6	1463.8	1474.8	1473.2	1457.6	1471.7	1446.6
15°	1440.3	1435.6	1449.7	1462.3	1454.4	1457.6	1462.3	1476.4	1446.6	1452.9	1452.9
17.5°	1438.8	1445.0	1449.7	1448.2	1474.8	1474.8	1470.1	1460.7	1484.2	1471.7	1454.4
20°	1445.0	1440.3	1452.9	1457.6	1476.4	1514.0	1499.9	1492.0	1479.5	1463.8	1463.8
22.5°	1452.9	1449.7	1467.0	1487.3	1523.4	1532.8	1531.2	1521.8	1499.9	1481.1	1477.9
25°	1481.1	1452.9	1471.7	1510.9	1523.4	1542.2	1554.7	1542.2	1512.4	1517.1	1488.9
27.5°	1523.4	1518.7	1543.8	1570.4	1559.4	1576.7	1565.7	1575.1	1576.7	1553.2	1525.0
30°	1573.5	1559.4	1575.1	1626.8	1631.5	1650.3	1631.5	1606.5	1614.3	1593.9	1579.8
32.5°	1645.6	1640.9	1670.7	1705.2	1711.5	1702.1	1692.7	1706.8	1673.8	1658.2	1633.1
35°	1692.7	1713.0	1749.1	1775.7	1796.1	1786.7	1791.4	1777.3	1785.1	1752.2	1741.2
37.5°	1832.1	1824.3	1832.1	1877.6	1882.3	1877.6	1882.3	1898.0	1887.0	1858.8	1830.6
40°	1963.8	1951.3	1970.1	2021.8	2018.6	2034.3	2003.0	2020.2	2020.2	1966.9	1956.0
42.5°	2062.5	2104.8	2126.8	2169.1	2184.8	2170.7	2164.4	2167.5	2202.0	2139.3	2115.8
45°	2266.3	2264.7	2330.5	2354.0	2310.2	2307.0	2294.5	2332.1	2355.6	2319.6	2310.2
47.5°	2487.3	2498.2	2535.8	2545.3	2571.9	2523.3	2523.3	2528.0	2611.1	2526.4	2482.6
50°	2686.3	2700.4	2775.6	2849.3	2799.1	2747.4	2767.8	2792.9	2838.3	2758.4	2720.8
52.5°	2927.7	3004.5	3054.6	3093.8	3129.8	3093.8	3046.8	3075.0	3164.3	3057.7	3010.7
55°	3275.6	3336.7	3383.7	3455.8	3485.6	3437.0	3432.3	3429.2	3479.3	3366.5	3302.2
57.5°	3664.3	3639.2	3714.4	3825.7	3933.9	3886.8	3872.7	3875.9	3888.4	3728.5	3680.0
60°	4147.0	4175.2	4264.6	4361.7	4476.1	4542.0	4449.5	4396.2	4407.2	4189.3	4114.1
62.5°	4422.8	4485.5	4687.7	5021.5	5251.9	5457.2	5471.4	5125.0	4893.0	4469.9	4150.1
65°	4289.6	4280.2	4661.1	5278.6	6151.5	6748.7	6659.3	5819.3	5009.0	4336.6	3907.2
67.5°	3648.6	3623.5	4084.3	5063.9	6505.8	7809.7	7707.8	6015.2	4617.2	3836.7	3350.8
70°	2350.9	2344.6	2844.6	3860.2	5808.3	7170.3	7207.9	5463.5	3758.3	2810.1	2329.0
72.5°	854.2	905.9	1195.8	2075.1	3944.8	5485.5	5509.0	4045.1	2161.3	1299.3	957.6
75°	315.0	324.4	377.7	673.9	1797.7	3368.1	3455.8	1962.2	768.0	423.2	344.8
77.5°	181.8	183.4	202.2	250.8	532.9	1314.9	1368.2	595.6	297.8	225.7	208.4
80°	123.8	122.2	142.6	163.0	213.1	373.0	396.5	249.2	188.1	156.7	131.7
82.5°	72.1	76.8	105.0	116.0	130.1	164.6	167.7	155.2	141.1	116.0	86.2
85°	43.9	36.0	58.0	64.3	75.2	73.7	73.7	84.6	90.9	81.5	48.6
87.5°	11.0	11.0	14.1	15.7	20.4	15.7	17.2	32.9	43.9	40.7	25.1
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°	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9	1499.9
2.5°	1503.0	1498.3	1501.4	1518.7	1507.7	1474.8	1482.6	1499.9	1485.8	1477.9	1476.4
5°	1496.7	1506.1	1495.2	1498.3	1509.3	1482.6	1487.3	1509.3	1499.9	1503.0	1485.8
7.5°	1498.3	1503.0	1493.6	1479.5	1479.5	1501.4	1488.9	1492.0	1477.9	1501.4	1470.1
10°	1488.9	1476.4	1465.4	1473.2	1470.1	1463.8	1459.1	1468.5	1454.4	1474.8	1452.9
12.5°	1460.7	1463.8	1460.7	1457.6	1463.8	1479.5	1454.4	1457.6	1435.6	1438.8	1449.7
15°	1449.7	1459.1	1456.0	1473.2	1481.1	1457.6	1476.4	1457.6	1440.3	1430.9	1448.2
17.5°	1454.4	1468.5	1463.8	1476.4	1462.3	1479.5	1482.6	1474.8	1454.4	1446.6	1454.4
20°	1459.1	1454.4	1460.7	1482.6	1503.0	1485.8	1485.8	1481.1	1462.3	1451.3	1451.3
22.5°	1470.1	1462.3	1471.7	1488.9	1495.2	1521.8	1498.3	1487.3	1456.0	1427.8	1454.4
25°	1492.0	1496.7	1503.0	1496.7	1531.2	1528.1	1525.0	1517.1	1468.5	1470.1	1465.4
27.5°	1534.4	1507.7	1515.6	1553.2	1557.9	1570.4	1554.7	1568.8	1517.1	1518.7	1487.3
30°	1586.1	1557.9	1582.9	1615.9	1614.3	1637.8	1630.0	1633.1	1597.1	1576.7	1534.4
32.5°	1642.5	1639.4	1655.0	1675.4	1683.3	1695.8	1694.2	1694.2	1672.3	1619.0	1626.8
35°	1705.2	1727.1	1745.9	1767.9	1771.0	1786.7	1764.7	1767.9	1745.9	1706.8	1719.3
37.5°	1829.0	1827.4	1847.8	1874.5	1877.6	1865.1	1882.3	1874.5	1844.7	1818.0	1797.7
40°	1973.2	1941.9	1960.7	2023.3	2028.1	2006.1	2004.5	2003.0	1981.0	1923.0	1910.5
42.5°	2098.6	2139.3	2136.2	2156.6	2142.5	2131.5	2170.7	2148.7	2131.5	2070.4	2059.4
45°	2260.0	2272.5	2313.3	2379.1	2311.7	2311.7	2338.4	2321.1	2311.7	2266.3	2224.0
47.5°	2460.6	2471.6	2553.1	2557.8	2513.9	2484.1	2567.2	2570.3	2531.1	2496.7	2444.9
50°	2695.7	2700.4	2774.1	2849.3	2800.7	2744.3	2828.9	2861.8	2774.1	2727.1	2662.8
52.5°	2954.3	2940.2	3001.3	3142.4	3095.4	3078.1	3169.0	3176.9	3057.7	2984.1	3001.3
55°	3252.1	3233.3	3399.4	3495.0	3465.2	3433.9	3474.6	3493.5	3397.8	3277.2	3319.5
57.5°	3637.6	3647.0	3730.1	3824.1	3872.7	3880.6	3899.4	3880.6	3783.4	3661.2	3622.0
60°	4023.2	4051.4	4212.8	4389.9	4405.6	4543.5	4518.4	4424.4	4286.5	4112.5	4120.4
62.5°	4165.8	4142.3	4402.5	4835.0	5203.3	5455.7	5344.4	5010.6	4690.8	4374.3	4397.8
65°	3879.0	3937.0	4291.2	4968.3	5767.6	6765.9	6173.5	5250.4	4604.6	4195.6	4150.1
67.5°	3343.0	3386.9	3836.7	4551.4	5969.7	7571.5	6486.9	4911.8	4060.8	3531.1	3559.3
70°	2329.0	2350.9	2791.3	3728.5	5413.4	7145.2	5852.2	3772.4	2803.9	2234.9	2266.3
72.5°	937.2	990.5	1280.5	2245.9	3996.5	5429.0	3940.1	1979.5	1162.9	865.1	785.2
75°	346.4	347.9	409.1	772.7	1898.0	3412.0	1777.3	636.3	371.4	304.1	289.9
77.5°	200.6	199.0	213.1	279.0	550.1	1332.2	504.7	249.2	202.2	181.8	174.0
80°	125.4	123.8	145.8	184.9	241.4	365.2	213.1	155.2	136.4	117.5	117.5
82.5°	79.9	81.5	114.4	136.4	147.3	161.4	123.8	109.7	101.9	67.4	65.8
85°	51.7	47.0	79.9	90.9	81.5	72.1	69.0	58.0	53.3	32.9	36.0
87.5°	23.5	25.1	40.7	45.5	29.8	17.2	17.2	12.5	12.5	7.8	7.8
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)