

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: P479287

Luminaire Tested: **IFLD-S-SA3A-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479287
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

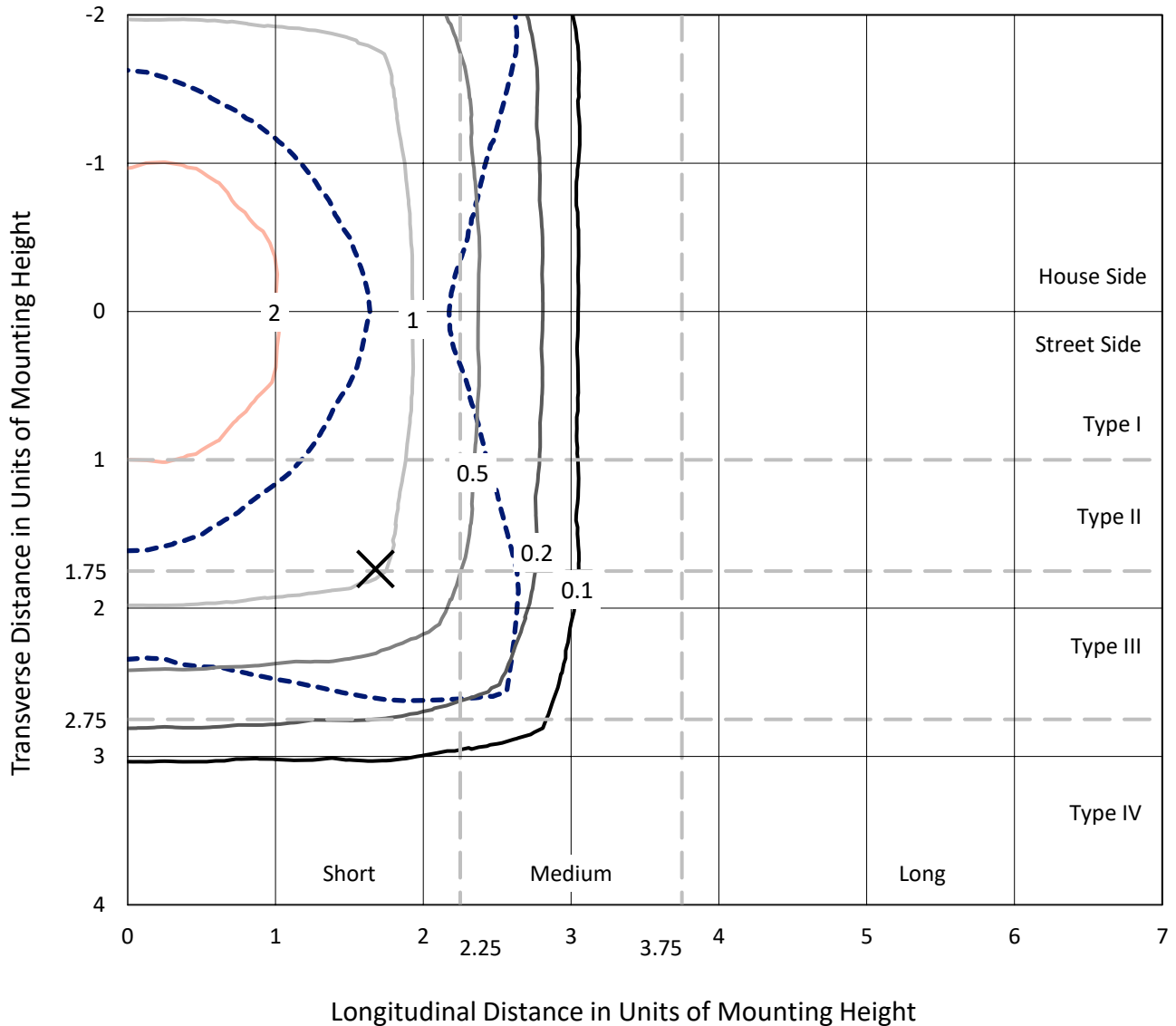
Lumens per Lamp: N/A
Luminaire Lumens: 13697.7 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 94.8
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

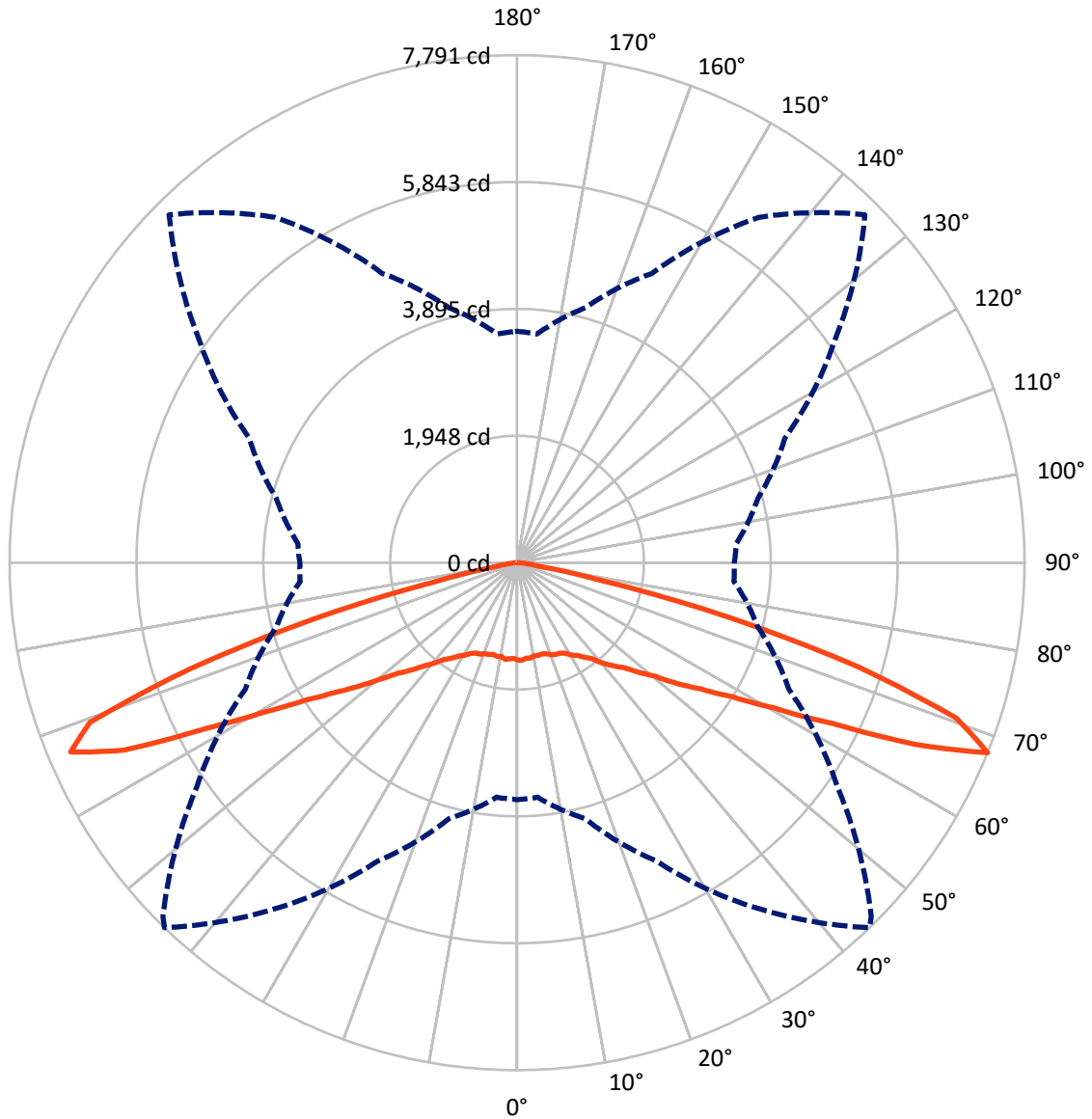
✕ Max cd
 - - - 1/2 Max cd



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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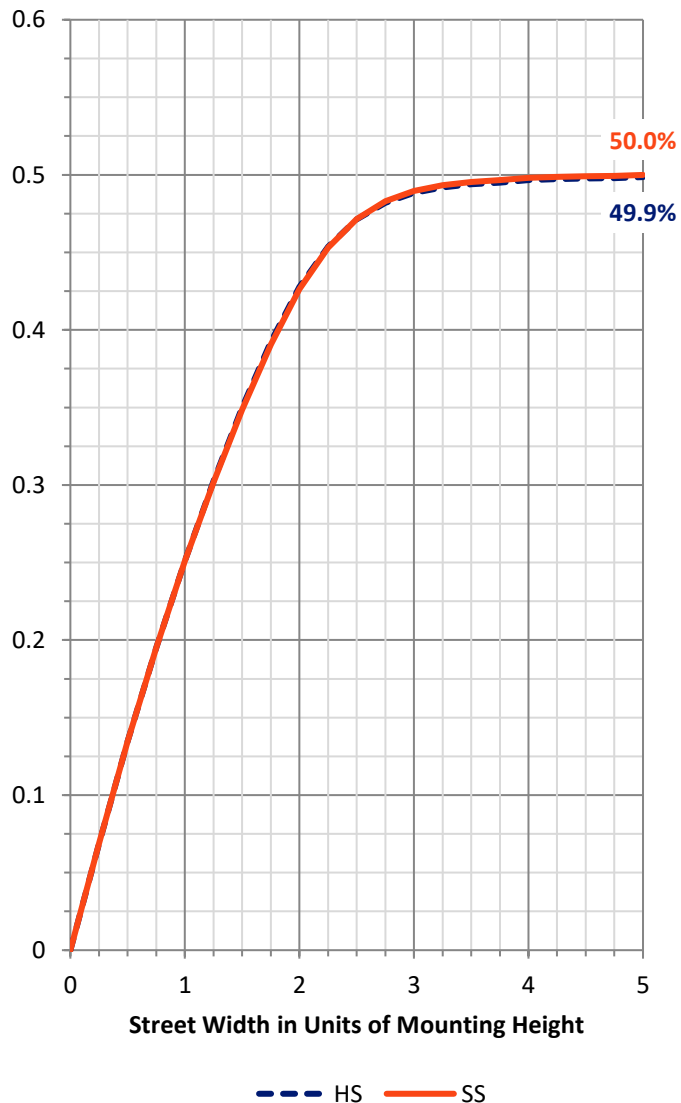
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6831.3	0.0	6831.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6866.4	0.0	6866.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	13697.7	0.0	13697.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.0
10°-20°	413.6	3.0
20°-30°	703.4	5.1
30°-40°	1115.3	8.1
40°-50°	1818.6	13.3
50°-60°	3106.0	22.7
60°-70°	4724.1	34.5
70°-80°	1592.3	11.6
80°-90°	82.7	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°	13697.7	100.0
0°-180°	13697.7	100.0

Coefficient of Utilization



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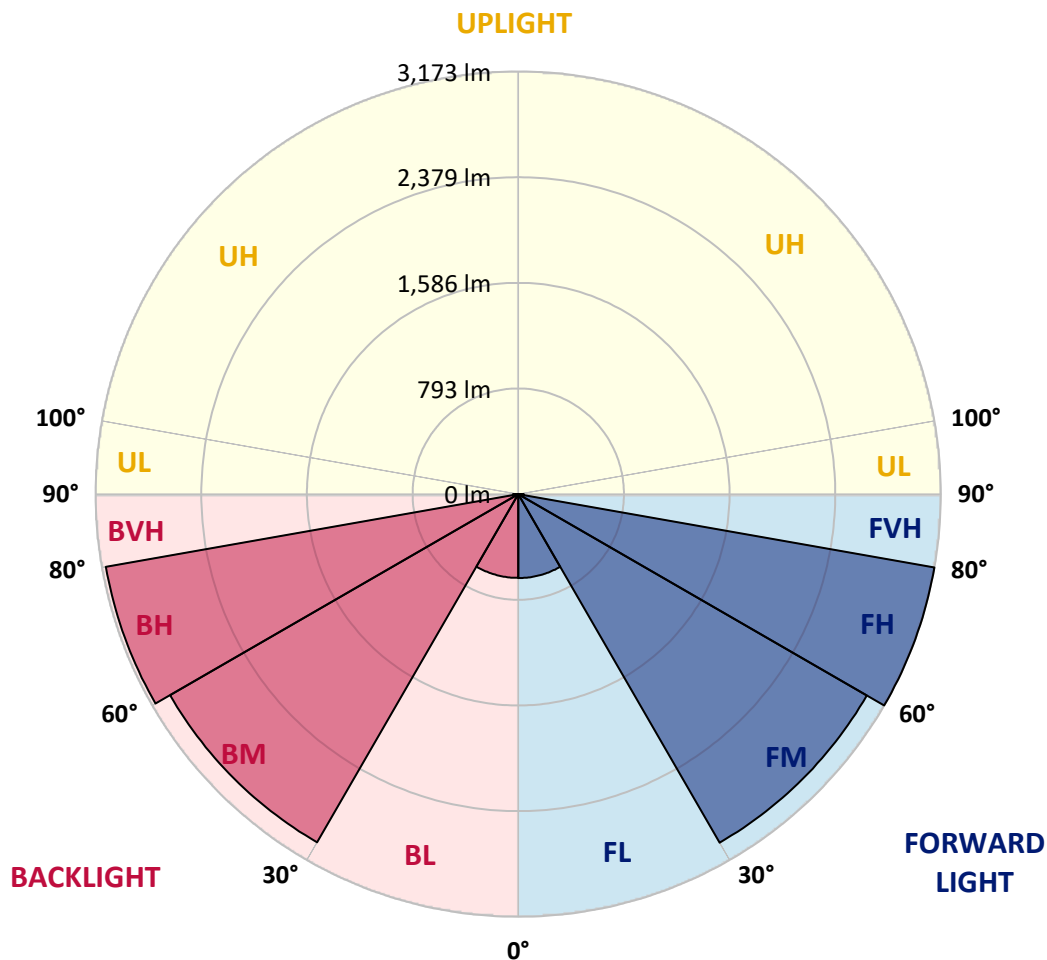
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.0	4.6			
FM (30°-60°)	3021.6	22.1			
FH (60°-80°)	3172.5	23.2			G2/5000
FVH (80°-90°)	42.3	0.3			G1/100
BL (0°-30°)	628.7	4.6	B2/1000		
BM (30°-60°)	3018.3	22.0	B3/5000		
BH (60°-80°)	3143.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	40.4	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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1461.8	1479.0	1491.5	1490.0	1494.7	1499.4	1493.1	1502.5	1496.2	1507.2	1513.4
5°	1490.0	1485.3	1486.9	1477.5	1499.4	1474.4	1474.4	1486.9	1502.5	1483.7	1494.7
7.5°	1472.8	1469.7	1461.8	1475.9	1480.6	1480.6	1493.1	1469.7	1496.2	1502.5	1504.1
10°	1454.0	1436.8	1460.3	1474.4	1477.5	1452.5	1463.4	1469.7	1461.8	1469.7	1474.4
12.5°	1438.4	1447.8	1447.8	1447.8	1443.1	1460.3	1471.2	1469.7	1454.0	1468.1	1443.1
15°	1436.8	1432.1	1446.2	1458.7	1450.9	1454.0	1458.7	1472.8	1443.1	1449.3	1449.3
17.5°	1435.3	1441.5	1446.2	1444.6	1471.2	1471.2	1466.5	1457.2	1480.6	1468.1	1450.9
20°	1441.5	1436.8	1449.3	1454.0	1472.8	1510.3	1496.2	1488.4	1475.9	1460.3	1460.3
22.5°	1449.3	1446.2	1463.4	1483.7	1519.7	1529.1	1527.5	1518.1	1496.2	1477.5	1474.4
25°	1477.5	1449.3	1468.1	1507.2	1519.7	1538.5	1551.0	1538.5	1508.7	1513.4	1485.3
27.5°	1519.7	1515.0	1540.0	1566.6	1555.7	1572.8	1561.9	1571.3	1572.8	1549.4	1521.3
30°	1569.7	1555.7	1571.3	1622.9	1627.6	1646.3	1627.6	1602.6	1610.4	1590.0	1576.0
32.5°	1641.6	1637.0	1666.7	1701.1	1707.3	1697.9	1688.5	1702.6	1669.8	1654.1	1629.1
35°	1688.5	1708.9	1744.8	1771.4	1791.7	1782.4	1787.0	1773.0	1780.8	1748.0	1737.0
37.5°	1827.7	1819.9	1827.7	1873.0	1877.7	1873.0	1877.7	1893.4	1882.4	1854.3	1826.1
40°	1959.0	1946.5	1965.3	2016.9	2013.7	2029.4	1998.1	2015.3	2015.3	1962.2	1951.2
42.5°	2057.5	2099.7	2121.6	2163.8	2179.5	2165.4	2159.1	2162.3	2196.7	2134.1	2110.7
45°	2260.8	2259.2	2324.9	2348.3	2304.6	2301.4	2288.9	2326.4	2349.9	2313.9	2304.6
47.5°	2481.2	2492.2	2529.7	2539.1	2565.7	2517.2	2517.2	2521.9	2604.7	2520.3	2476.5
50°	2679.8	2693.9	2768.9	2842.4	2792.4	2740.8	2761.1	2786.1	2831.4	2751.7	2714.2
52.5°	2920.6	2997.2	3047.2	3086.3	3122.2	3086.3	3039.4	3067.5	3156.6	3050.3	3003.4
55°	3267.6	3328.6	3375.5	3447.4	3477.2	3428.7	3424.0	3420.9	3470.9	3358.3	3294.2
57.5°	3655.4	3630.4	3705.4	3816.4	3924.3	3877.4	3863.3	3866.5	3879.0	3719.5	3671.0
60°	4136.9	4165.1	4254.2	4351.1	4465.3	4530.9	4438.7	4385.5	4396.5	4179.1	4104.1
62.5°	4412.1	4474.6	4676.3	5009.4	5239.2	5444.0	5458.1	5112.5	4881.1	4459.0	4140.1
65°	4279.2	4269.8	4649.8	5265.8	6136.6	6732.3	6643.2	5805.2	4996.8	4326.1	3897.7
67.5°	3639.8	3614.7	4074.4	5051.6	6490.0	7790.8	7689.1	6000.6	4606.0	3827.4	3342.7
70°	2345.2	2338.9	2837.7	3850.8	5794.2	7152.9	7190.4	5450.2	3749.2	2803.3	2323.3
72.5°	852.1	903.7	1192.9	2070.0	3935.2	5472.1	5495.6	4035.3	2156.0	1296.1	955.3
75°	314.3	323.6	376.8	672.3	1793.3	3359.9	3447.4	1957.5	766.1	422.1	344.0
77.5°	181.4	182.9	201.7	250.2	531.6	1311.7	1364.9	594.1	297.1	225.1	207.9
80°	123.5	122.0	142.3	162.6	212.6	372.1	395.6	248.6	187.6	156.3	131.3
82.5°	71.9	76.6	104.8	115.7	129.8	164.2	167.3	154.8	140.7	115.7	86.0
85°	43.8	36.0	57.8	64.1	75.0	73.5	73.5	84.4	90.7	81.3	48.5
87.5°	10.9	10.9	14.1	15.6	20.3	15.6	17.2	32.8	43.8	40.7	25.0
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°	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2	1496.2
2.5°	1499.4	1494.7	1497.8	1515.0	1504.1	1471.2	1479.0	1496.2	1482.2	1474.4	1472.8
5°	1493.1	1502.5	1491.5	1494.7	1505.6	1479.0	1483.7	1505.6	1496.2	1499.4	1482.2
7.5°	1494.7	1499.4	1490.0	1475.9	1475.9	1497.8	1485.3	1488.4	1474.4	1497.8	1466.5
10°	1485.3	1472.8	1461.8	1469.7	1466.5	1460.3	1455.6	1465.0	1450.9	1471.2	1449.3
12.5°	1457.2	1460.3	1457.2	1454.0	1460.3	1475.9	1450.9	1454.0	1432.1	1435.3	1446.2
15°	1446.2	1455.6	1452.5	1469.7	1477.5	1454.0	1472.8	1454.0	1436.8	1427.4	1444.6
17.5°	1450.9	1465.0	1460.3	1472.8	1458.7	1475.9	1479.0	1471.2	1450.9	1443.1	1450.9
20°	1455.6	1450.9	1457.2	1479.0	1499.4	1482.2	1482.2	1477.5	1458.7	1447.8	1447.8
22.5°	1466.5	1458.7	1468.1	1485.3	1491.5	1518.1	1494.7	1483.7	1452.5	1424.3	1450.9
25°	1488.4	1493.1	1499.4	1493.1	1527.5	1524.4	1521.3	1513.4	1465.0	1466.5	1461.8
27.5°	1530.6	1504.1	1511.9	1549.4	1554.1	1566.6	1551.0	1565.0	1513.4	1515.0	1483.7
30°	1582.2	1554.1	1579.1	1611.9	1610.4	1633.8	1626.0	1629.1	1593.2	1572.8	1530.6
32.5°	1638.5	1635.4	1651.0	1671.3	1679.2	1691.7	1690.1	1690.1	1668.2	1615.1	1622.9
35°	1701.1	1722.9	1741.7	1763.6	1766.7	1782.4	1760.5	1763.6	1741.7	1702.6	1715.1
37.5°	1824.6	1823.0	1843.3	1869.9	1873.0	1860.5	1877.7	1869.9	1840.2	1813.6	1793.3
40°	1968.4	1937.1	1955.9	2018.4	2023.1	2001.2	1999.7	1998.1	1976.2	1918.4	1905.9
42.5°	2093.5	2134.1	2131.0	2151.3	2137.3	2126.3	2165.4	2143.5	2126.3	2065.3	2054.4
45°	2254.5	2267.0	2307.7	2373.3	2306.1	2306.1	2332.7	2315.5	2306.1	2260.8	2218.6
47.5°	2454.6	2465.6	2546.9	2551.6	2507.8	2478.1	2561.0	2564.1	2525.0	2490.6	2439.0
50°	2689.2	2693.9	2767.3	2842.4	2793.9	2737.6	2822.1	2854.9	2767.3	2720.4	2656.3
52.5°	2947.1	2933.1	2994.0	3134.8	3087.8	3070.7	3161.3	3169.1	3050.3	2976.8	2994.0
55°	3244.2	3225.4	3391.2	3486.5	3456.8	3425.6	3466.2	3485.0	3389.6	3269.2	3311.4
57.5°	3628.8	3638.2	3721.1	3814.9	3863.3	3871.1	3889.9	3871.1	3774.2	3652.3	3613.2
60°	4013.4	4041.6	4202.6	4379.3	4394.9	4532.5	4507.5	4413.7	4276.1	4102.5	4110.4
62.5°	4155.7	4132.2	4391.8	4823.3	5190.7	5442.4	5331.4	4998.4	4679.5	4363.6	4387.1
65°	3869.6	3927.4	4280.8	4956.2	5753.6	6749.5	6158.5	5237.6	4593.5	4185.4	4140.1
67.5°	3334.9	3378.7	3827.4	4540.3	5955.2	7553.1	6471.2	4899.9	4050.9	3522.5	3550.6
70°	2323.3	2345.2	2784.5	3719.5	5400.2	7127.8	5838.0	3763.3	2797.0	2229.5	2260.8
72.5°	935.0	988.1	1277.4	2240.4	3986.8	5415.9	3930.6	1974.7	1160.1	863.0	783.3
75°	345.5	347.1	408.1	770.8	1893.4	3403.7	1773.0	634.8	370.5	303.3	289.2
77.5°	200.1	198.6	212.6	278.3	548.8	1328.9	503.4	248.6	201.7	181.4	173.5
80°	125.1	123.5	145.4	184.5	240.8	364.3	212.6	154.8	136.0	117.3	117.3
82.5°	79.7	81.3	114.1	136.0	147.0	161.0	123.5	109.4	101.6	67.2	65.7
85°	51.6	46.9	79.7	90.7	81.3	71.9	68.8	57.8	53.2	32.8	36.0
87.5°	23.5	25.0	40.7	45.3	29.7	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)