

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: P478781

Luminaire Tested: **IFLD-S-SA3B-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478781
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

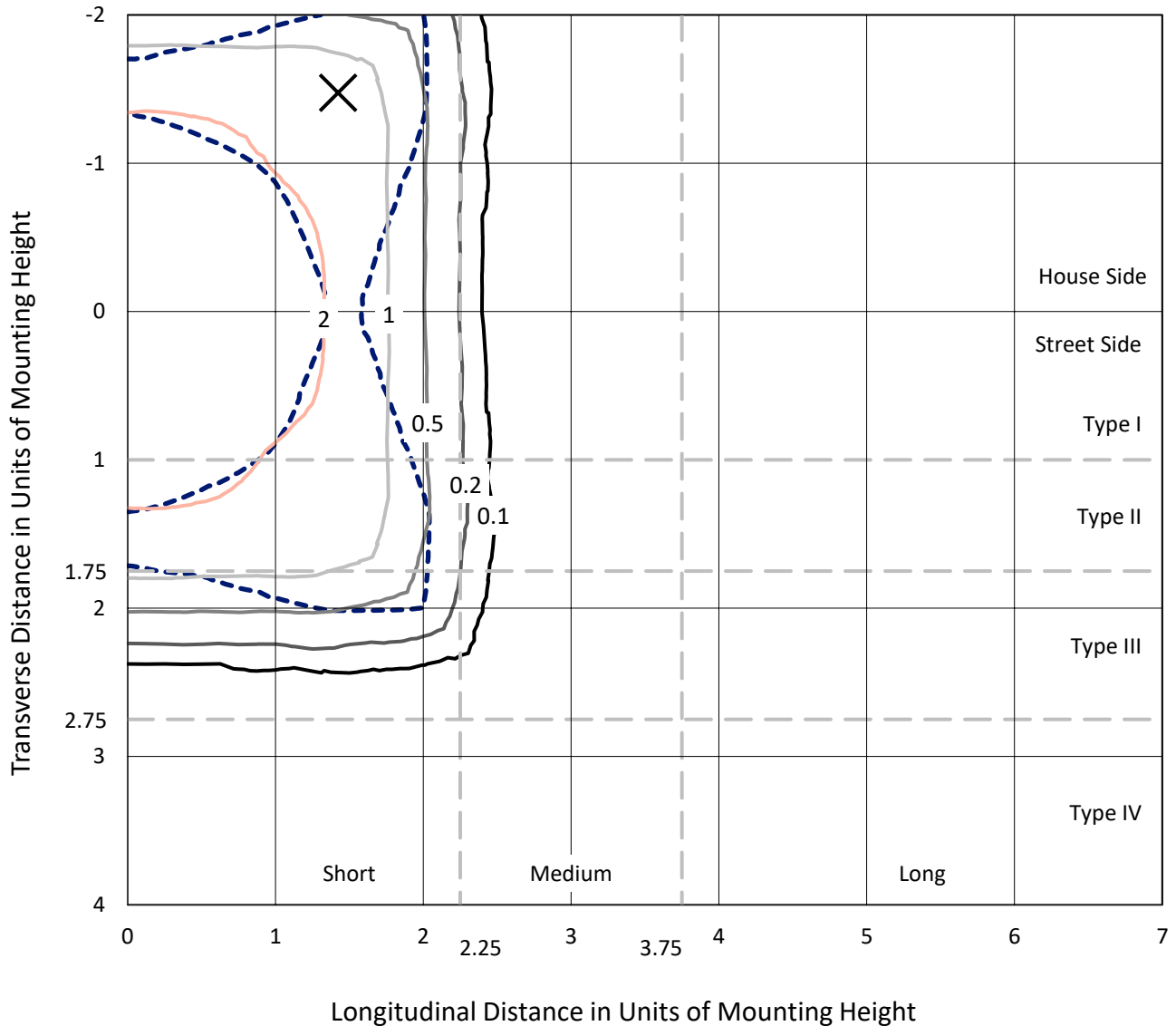
Lumens per Lamp: N/A
Luminaire Lumens: 12501 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4
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

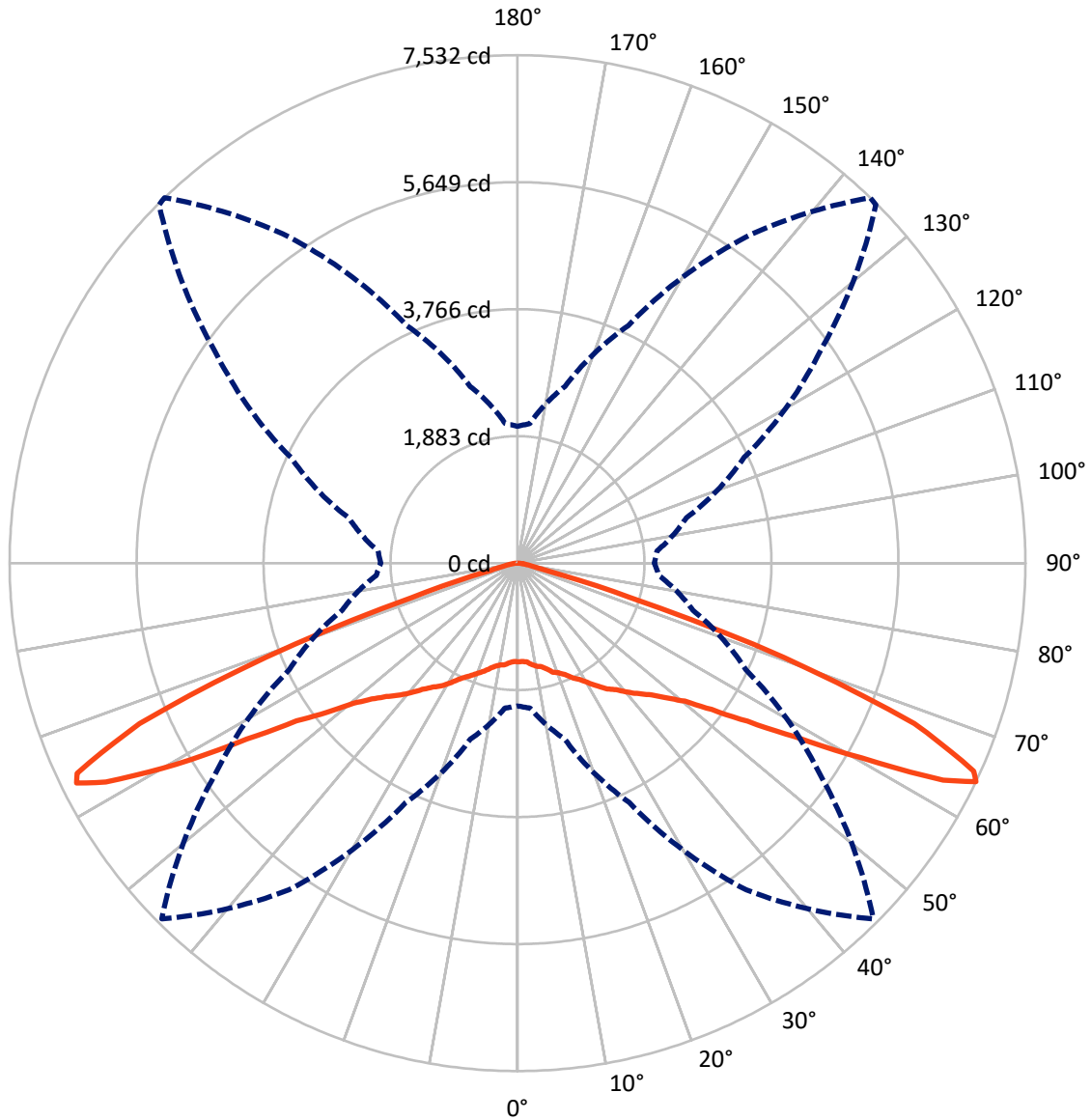
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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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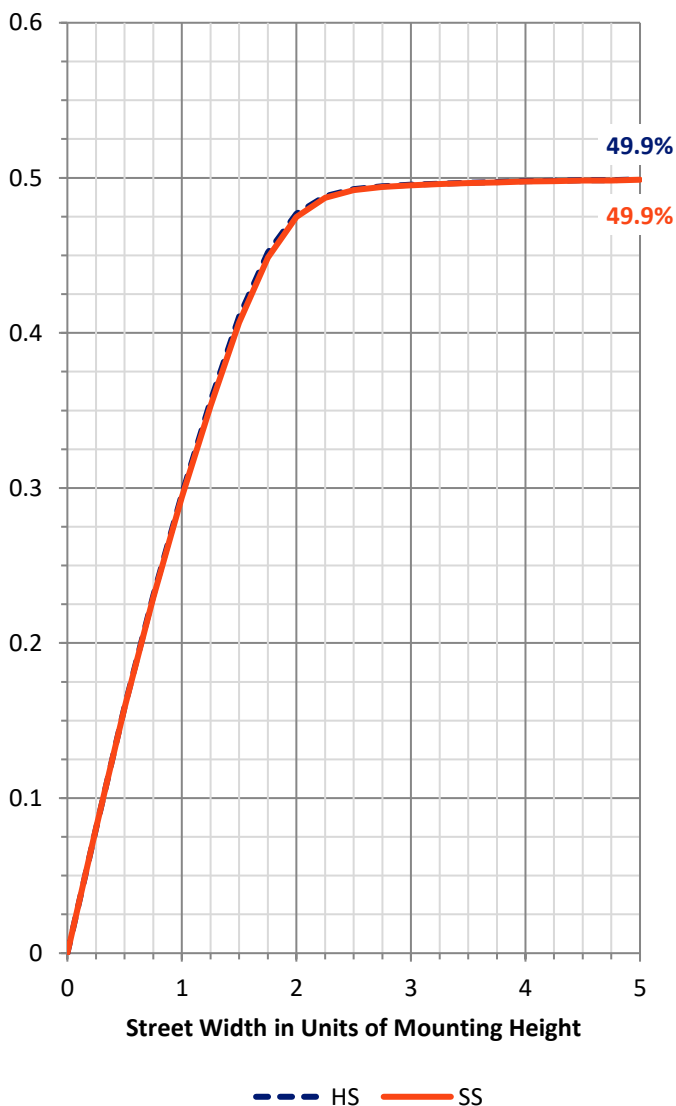
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6256.4	0.0	6256.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6244.5	0.0	6244.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12501.0	0.0	12501.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.2
10°-20°	463.5	3.7
20°-30°	871.1	7.0
30°-40°	1436.6	11.5
40°-50°	2246.8	18.0
50°-60°	3630.2	29.0
60°-70°	3268.8	26.1
70°-80°	387.2	3.1
80°-90°	53.0	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°	12501.0	100.0
0°-180°	12501.0	100.0

Coefficient of Utilization



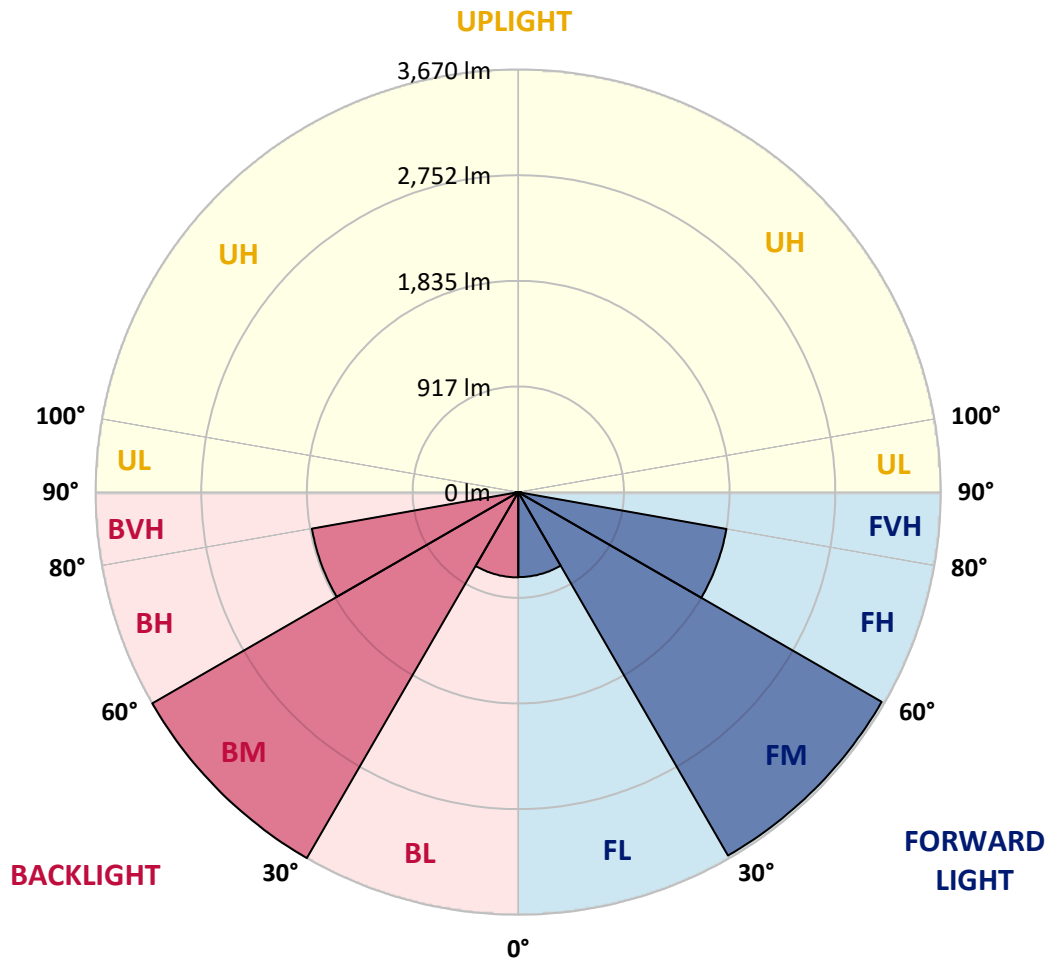
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.8	5.9			
FM (30°-60°)	3643.6	29.1			
FH (60°-80°)	1835.9	14.7			G2/5000
FVH (80°-90°)	27.2	0.2			G1/100
BL (0°-30°)	740.6	5.9	B2/1000		
BM (30°-60°)	3669.9	29.4	B3/5000		
BH (60°-80°)	1820.1	14.6	B3/2500		G2/5000
BVH (80°-90°)	25.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1446.4	1449.3	1475.1	1465.0	1473.6	1457.9	1469.3	1493.7	1465.0	1486.5	1493.7
5°	1462.2	1466.5	1466.5	1476.5	1482.2	1479.4	1486.5	1476.5	1503.7	1492.3	1509.5
7.5°	1519.5	1512.3	1500.9	1509.5	1510.9	1518.1	1525.2	1538.1	1533.8	1523.8	1541.0
10°	1529.5	1523.8	1541.0	1542.4	1535.3	1529.5	1536.7	1536.7	1549.6	1552.5	1552.5
12.5°	1546.7	1552.5	1551.0	1562.5	1564.0	1559.7	1571.1	1592.6	1586.9	1591.2	1581.2
15°	1612.7	1605.5	1604.1	1615.6	1634.2	1607.0	1627.0	1625.6	1619.9	1628.5	1605.5
17.5°	1670.0	1647.1	1657.1	1675.8	1668.6	1674.3	1700.1	1677.2	1682.9	1672.9	1665.7
20°	1720.2	1701.6	1703.0	1710.2	1710.2	1727.4	1737.4	1728.8	1723.1	1721.6	1724.5
22.5°	1776.1	1754.6	1756.0	1786.1	1796.2	1790.4	1783.3	1797.6	1800.5	1789.0	1801.9
25°	1817.7	1840.6	1847.8	1862.1	1840.6	1856.4	1850.7	1877.9	1895.1	1872.2	1887.9
27.5°	1926.6	1916.6	1935.2	1933.8	1951.0	1935.2	1945.3	1953.9	1961.0	1962.5	1955.3
30°	2024.1	2028.4	2009.8	2059.9	2019.8	2045.6	2062.8	2067.1	2075.7	2075.7	2054.2
32.5°	2127.3	2118.7	2148.8	2137.4	2130.2	2150.3	2131.6	2190.4	2156.0	2176.1	2151.7
35°	2243.4	2243.4	2254.9	2286.4	2243.4	2230.5	2264.9	2289.3	2289.3	2253.5	2262.1
37.5°	2373.9	2362.4	2376.7	2416.9	2383.9	2340.9	2404.0	2414.0	2406.9	2396.8	2379.6
40°	2465.6	2462.8	2491.4	2544.5	2497.2	2488.6	2500.0	2527.3	2535.9	2545.9	2523.0
42.5°	2620.4	2633.3	2716.5	2703.6	2664.9	2634.8	2631.9	2733.7	2709.3	2683.5	2670.6
45°	2849.8	2838.3	2881.3	2882.8	2832.6	2766.7	2781.0	2874.2	2915.7	2858.4	2879.9
47.5°	3031.9	3037.6	3067.7	3129.3	3013.2	2944.4	2997.5	3148.0	3135.1	3113.6	3133.6
50°	3275.6	3301.4	3396.0	3374.5	3271.3	3186.7	3302.8	3444.7	3460.5	3381.6	3367.3
52.5°	3612.4	3652.6	3704.2	3721.4	3622.5	3592.4	3599.5	3775.8	3737.1	3661.2	3612.4
55°	3907.7	3926.4	4021.0	4162.9	4155.7	4010.9	4094.1	4160.0	4002.3	3846.1	3859.0
57.5°	4033.9	4042.5	4306.2	4590.1	4759.2	4792.2	4697.6	4475.4	4099.8	3798.8	3780.1
60°	3719.9	3801.6	4119.9	4760.7	5533.3	5914.6	5285.3	4511.2	3871.9	3506.3	3479.1
62.5°	2973.1	2977.4	3450.4	4422.4	6015.0	7014.1	5510.4	4174.4	3264.1	2849.8	2740.9
64°	2117.3	2157.4	2700.7	3914.9	5914.6	7461.4	5483.1	3734.3	2690.7	2102.9	2027.0
65°	1519.5	1575.4	2100.1	3398.8	5679.5	7408.3	5401.4	3355.8	2176.1	1605.5	1528.1
67.5°	559.1	582.0	824.3	1700.1	4078.3	6313.1	4280.4	1844.9	956.1	680.9	612.1
70°	259.5	260.9	305.3	561.9	1783.3	4221.7	2042.7	692.4	359.8	285.3	265.2
72.5°	190.7	195.0	213.6	259.5	524.7	1787.6	670.9	283.8	210.7	186.4	182.1
75°	154.8	157.7	163.4	187.8	242.3	478.8	272.4	196.4	167.7	150.5	144.8
77.5°	119.0	119.0	131.9	143.4	160.6	223.6	180.6	156.3	136.2	119.0	114.7
80°	86.0	87.4	103.2	111.8	108.9	147.7	130.4	129.0	111.8	93.2	86.0
82.5°	50.2	54.5	74.5	80.3	77.4	87.4	94.6	100.3	87.4	64.5	58.8
85°	28.7	30.1	43.0	44.4	44.4	41.6	54.5	60.2	58.8	40.1	35.8
87.5°	8.6	8.6	11.5	11.5	12.9	14.3	21.5	25.8	28.7	20.1	18.6
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°	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1486.5	1465.0	1466.5	1472.2	1453.6	1460.7	1482.2	1466.5	1462.2	1453.6	1449.3
5°	1479.4	1502.3	1493.7	1496.6	1492.3	1472.2	1469.3	1482.2	1489.4	1476.5	1502.3
7.5°	1529.5	1519.5	1508.0	1512.3	1502.3	1519.5	1531.0	1505.2	1518.1	1510.9	1496.6
10°	1558.2	1539.6	1548.2	1545.3	1538.1	1555.4	1543.9	1541.0	1529.5	1513.8	1536.7
12.5°	1568.3	1589.8	1604.1	1579.7	1584.0	1575.4	1568.3	1568.3	1555.4	1551.0	1555.4
15°	1612.7	1631.3	1625.6	1644.2	1619.9	1628.5	1637.1	1615.6	1627.0	1595.5	1619.9
17.5°	1694.4	1678.6	1698.7	1674.3	1682.9	1700.1	1672.9	1672.9	1681.5	1664.3	1642.8
20°	1746.0	1738.8	1731.7	1733.1	1718.8	1734.5	1725.9	1721.6	1708.7	1714.5	1725.9
22.5°	1794.7	1784.7	1787.6	1791.9	1801.9	1794.7	1790.4	1794.7	1763.2	1791.9	1751.7
25°	1855.0	1882.2	1873.6	1892.2	1863.6	1882.2	1880.8	1853.5	1870.7	1859.3	1850.7
27.5°	1955.3	1941.0	1953.9	1930.9	1951.0	1952.4	1935.2	1981.1	1961.0	1958.2	1952.4
30°	2084.3	2074.3	2065.7	2052.8	2068.5	2055.6	2070.0	2074.3	2055.6	2041.3	2014.1
32.5°	2157.4	2184.7	2194.7	2163.2	2164.6	2171.8	2158.9	2146.0	2157.4	2161.7	2157.4
35°	2260.6	2286.4	2292.2	2267.8	2254.9	2290.7	2264.9	2307.9	2270.7	2272.1	2233.4
37.5°	2381.0	2388.2	2437.0	2409.7	2398.2	2381.0	2428.4	2422.6	2431.2	2362.4	2396.8
40°	2517.2	2543.0	2570.3	2501.5	2500.0	2515.8	2512.9	2545.9	2530.1	2520.1	2495.7
42.5°	2666.3	2720.8	2725.1	2679.2	2650.5	2647.7	2662.0	2735.1	2736.6	2670.6	2641.9
45°	2864.1	2924.3	2908.6	2819.7	2788.2	2783.9	2854.1	2885.6	2912.9	2887.1	2862.7
47.5°	3110.7	3150.8	3139.4	3057.7	2955.9	2984.6	3053.4	3152.3	3123.6	3089.2	3060.5
50°	3374.5	3421.8	3397.4	3315.7	3218.2	3218.2	3302.8	3428.9	3420.3	3353.0	3327.2
52.5°	3666.9	3735.7	3791.6	3675.5	3593.8	3606.7	3740.0	3785.9	3764.4	3717.1	3695.6
55°	3884.8	4016.7	4131.4	4137.1	4141.4	4140.0	4174.4	4220.2	4066.8	3990.9	3913.5
57.5°	3831.8	4081.2	4474.0	4740.6	4819.4	4861.0	4849.5	4637.4	4274.7	4025.3	4051.1
60°	3453.3	3860.4	4494.0	5349.8	5923.2	5865.9	5656.6	4818.0	4160.0	3738.6	3685.5
62.5°	2755.2	3245.4	4157.2	5521.9	7101.6	7084.4	5989.2	4400.9	3466.2	2932.9	2900.0
64°	2075.7	2591.8	3708.5	5477.4	7514.4	7531.6	5904.6	3887.7	2712.2	2075.7	2025.5
65°	1588.3	2067.1	3268.4	5385.7	7425.5	7435.6	5669.5	3357.3	2061.4	1473.6	1419.2
67.5°	632.2	880.2	1773.2	4084.0	6376.2	6349.0	4045.3	1624.2	788.4	513.2	503.2
70°	269.5	335.4	622.1	1935.2	4269.0	4190.1	1741.7	527.5	292.4	245.1	243.7
72.5°	184.9	205.0	266.6	597.8	1774.7	1733.1	496.0	245.1	199.3	183.5	183.5
75°	149.1	163.4	193.5	250.9	470.2	453.0	233.7	180.6	159.1	147.7	146.2
77.5°	116.1	130.4	152.0	173.5	215.0	213.6	156.3	136.2	123.3	114.7	111.8
80°	91.7	106.1	120.4	123.3	140.5	137.6	106.1	107.5	100.3	83.1	81.7
82.5°	63.1	86.0	96.0	87.4	83.1	83.1	76.0	76.0	70.2	51.6	47.3
85°	38.7	57.3	60.2	51.6	38.7	38.7	41.6	40.1	37.3	27.2	25.8
87.5°	20.1	27.2	24.4	20.1	12.9	12.9	11.5	8.6	8.6	7.2	7.2
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)