

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: P478779

Luminaire Tested: **IFLD-S-SA2E-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478779
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-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

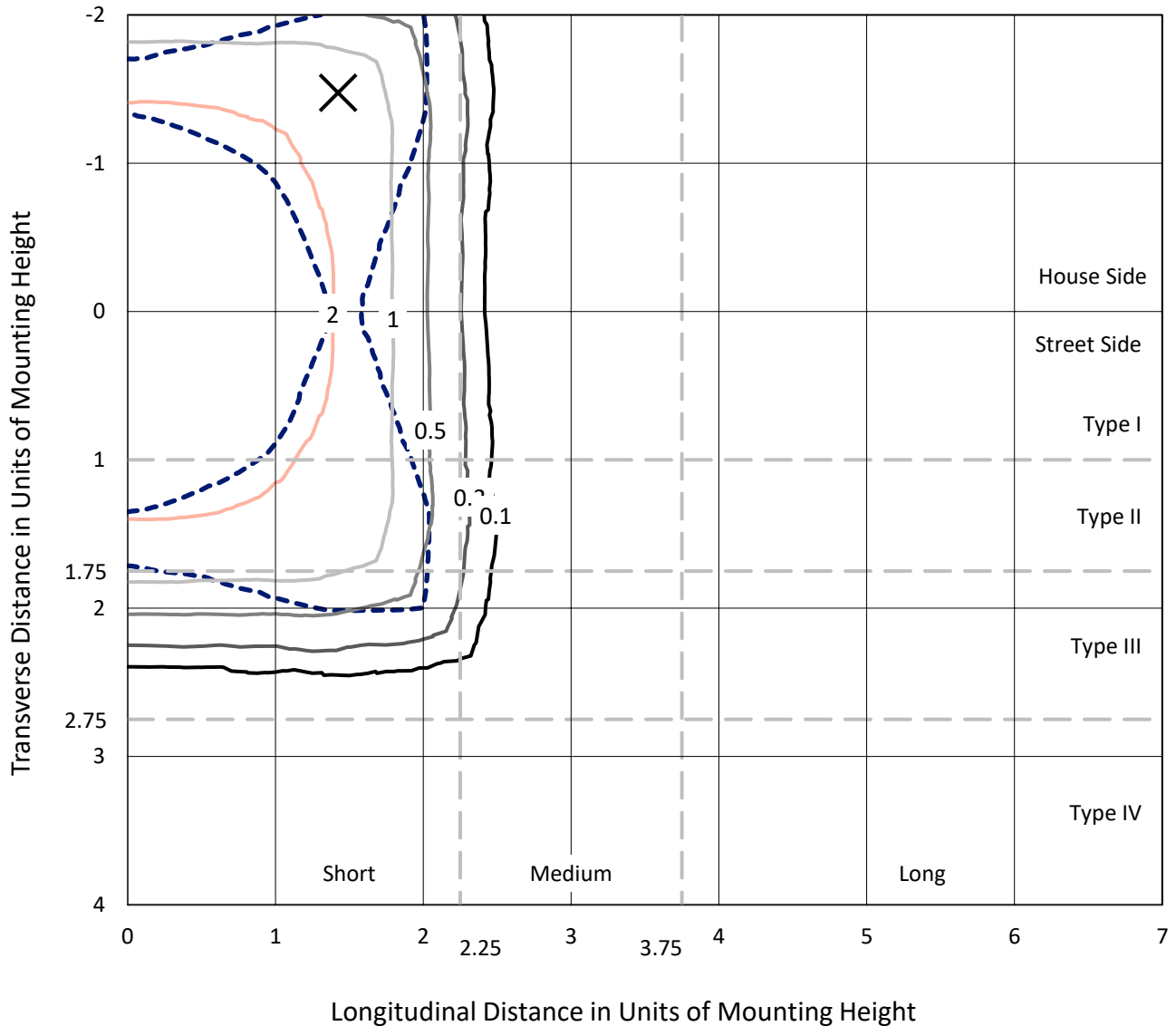
Lumens per Lamp: N/A
Luminaire Lumens: 13297 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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: P478779
 CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

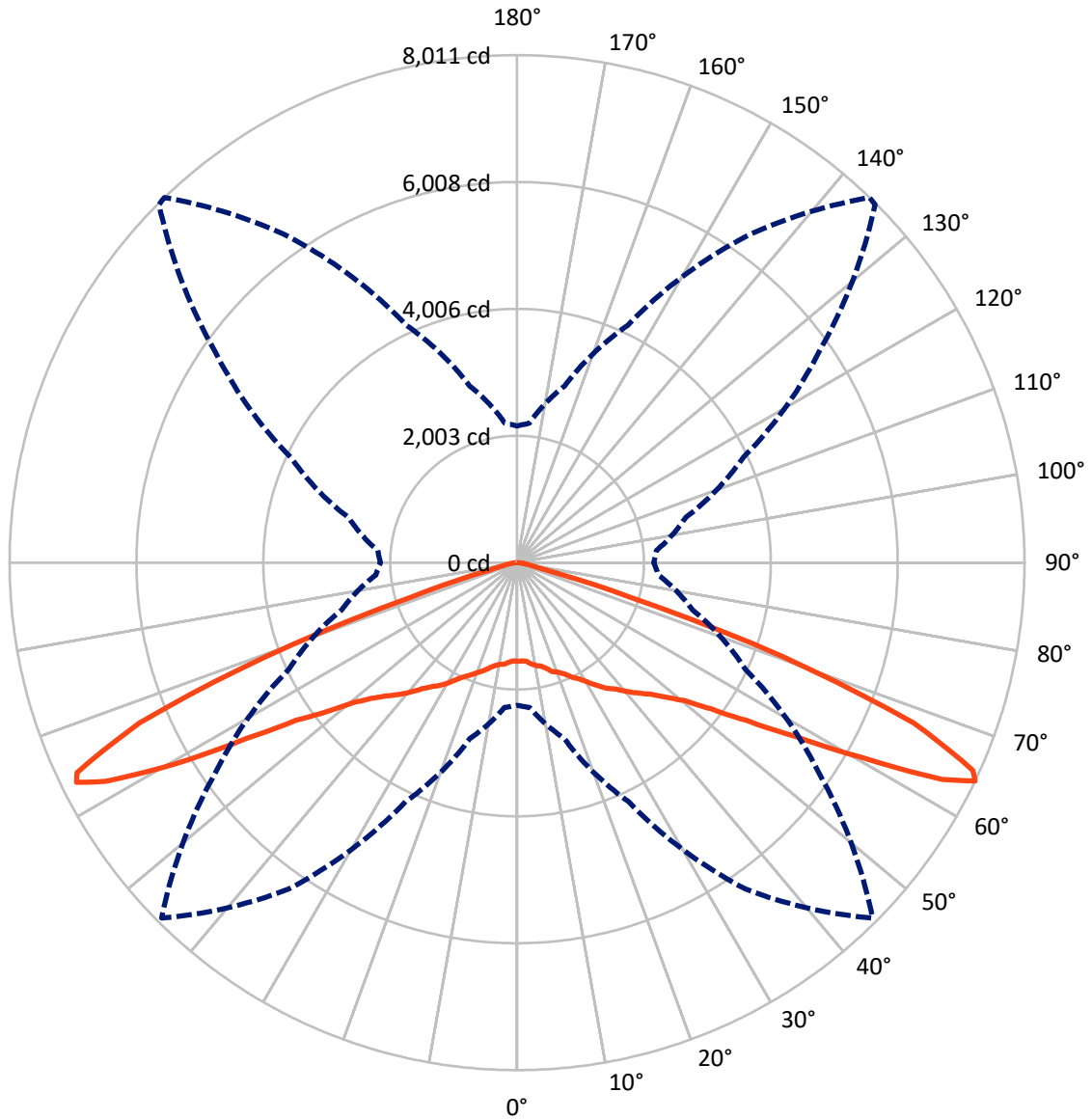
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

REPORT NUMBER: P478779
CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478779

CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

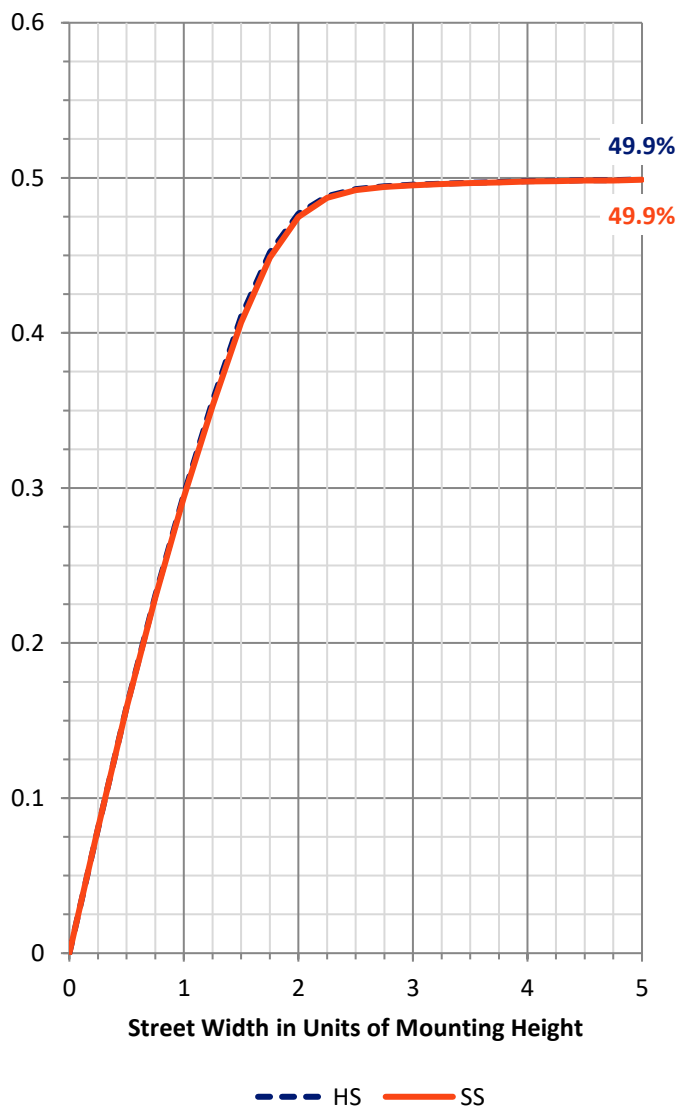
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6654.8	0.0	6654.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6642.1	0.0	6642.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	13297.0	0.0	13297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	1.2
10°-20°	493.0	3.7
20°-30°	926.6	7.0
30°-40°	1528.1	11.5
40°-50°	2389.8	18.0
50°-60°	3861.4	29.0
60°-70°	3476.9	26.1
70°-80°	411.9	3.1
80°-90°	56.4	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°	13297.0	100.0
0°-180°	13297.0	100.0

Coefficient of Utilization



REPORT NUMBER: P478779

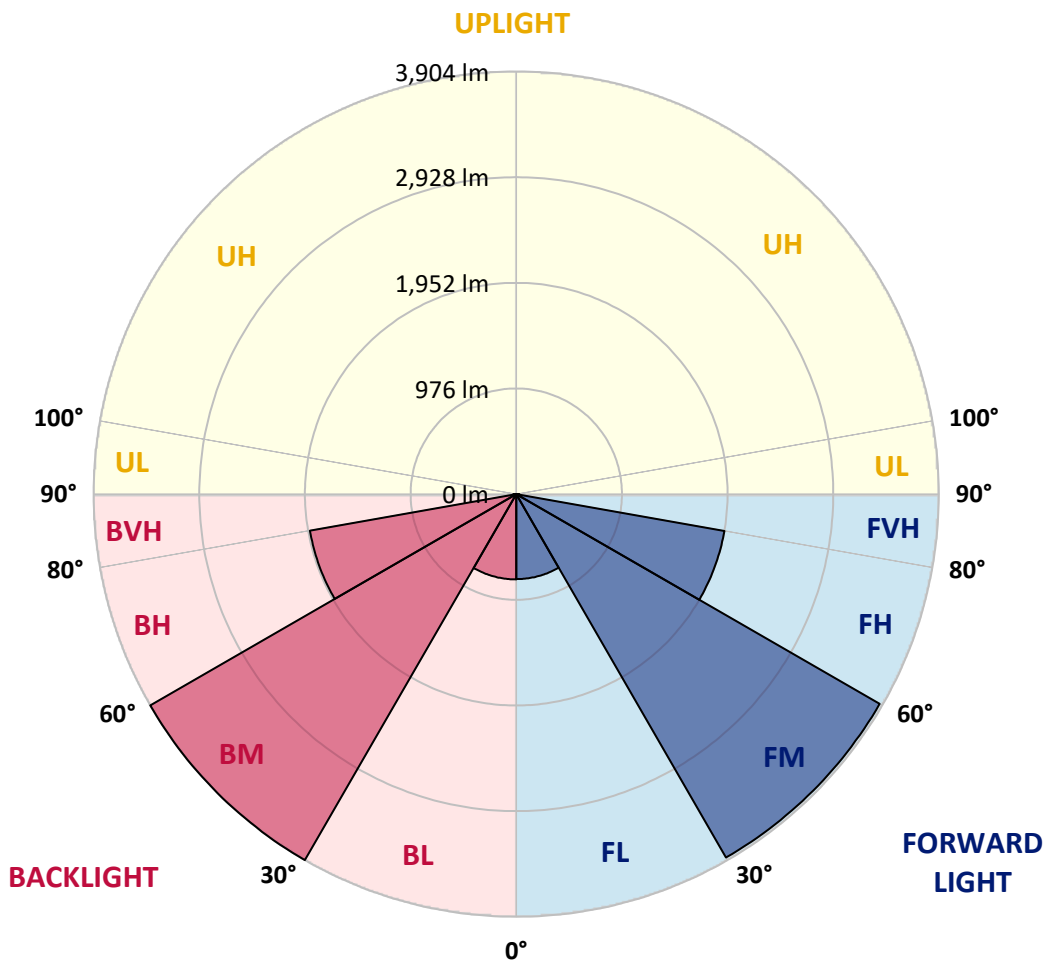
CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.8	5.9			
FM (30°-60°)	3875.7	29.1			
FH (60°-80°)	1952.8	14.7			G2/5000
FVH (80°-90°)	28.9	0.2			G1/100
BL (0°-30°)	787.8	5.9	B2/1000		
BM (30°-60°)	3903.6	29.4	B3/5000		
BH (60°-80°)	1936.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	27.4	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





REPORT NUMBER: P478779
 CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1538.5	1541.6	1569.0	1558.3	1567.5	1550.7	1562.9	1588.8	1558.3	1581.2	1588.8
5°	1555.3	1559.9	1559.9	1570.5	1576.6	1573.6	1581.2	1570.5	1599.5	1587.3	1605.6
7.5°	1616.3	1608.6	1596.4	1605.6	1607.1	1614.7	1622.4	1636.1	1631.5	1620.8	1639.1
10°	1626.9	1620.8	1639.1	1640.7	1633.0	1626.9	1634.6	1634.6	1648.3	1651.3	1651.3
12.5°	1645.2	1651.3	1649.8	1662.0	1663.5	1659.0	1671.2	1694.0	1687.9	1692.5	1681.8
15°	1715.4	1707.8	1706.2	1718.4	1738.3	1709.3	1730.6	1729.1	1723.0	1732.2	1707.8
17.5°	1776.4	1752.0	1762.6	1782.5	1774.8	1780.9	1808.4	1784.0	1790.1	1779.4	1771.8
20°	1829.7	1809.9	1811.4	1819.1	1819.1	1837.4	1848.0	1838.9	1832.8	1831.3	1834.3
22.5°	1889.2	1866.3	1867.9	1899.9	1910.6	1904.5	1896.8	1912.1	1915.1	1902.9	1916.7
25°	1933.4	1957.8	1965.4	1980.7	1957.8	1974.6	1968.5	1997.5	2015.8	1991.4	2008.1
27.5°	2049.3	2038.6	2058.5	2056.9	2075.2	2058.5	2069.1	2078.3	2085.9	2087.4	2079.8
30°	2153.0	2157.6	2137.7	2191.1	2148.4	2175.9	2194.2	2198.7	2207.9	2207.9	2185.0
32.5°	2262.8	2253.6	2285.6	2273.4	2265.8	2287.2	2267.4	2329.9	2293.3	2314.6	2288.7
35°	2386.3	2386.3	2398.5	2432.0	2386.3	2372.6	2409.2	2435.1	2435.1	2397.0	2406.1
37.5°	2525.0	2512.8	2528.1	2570.8	2535.7	2490.0	2557.1	2567.7	2560.1	2549.4	2531.1
40°	2622.6	2619.6	2650.1	2706.5	2656.2	2647.0	2659.2	2688.2	2697.3	2708.0	2683.6
42.5°	2787.3	2801.0	2889.5	2875.7	2834.6	2802.5	2799.5	2907.8	2881.8	2854.4	2840.7
45°	3031.3	3019.1	3064.8	3066.3	3013.0	2942.8	2958.1	3057.2	3101.4	3040.4	3063.3
47.5°	3224.9	3231.0	3263.0	3328.6	3205.1	3131.9	3188.3	3348.4	3334.7	3311.8	3333.2
50°	3484.1	3511.6	3612.2	3589.3	3479.6	3389.6	3513.1	3664.1	3680.8	3597.0	3581.7
52.5°	3842.5	3885.1	3940.0	3958.3	3853.1	3821.1	3828.7	4016.3	3975.1	3894.3	3842.5
55°	4156.6	4176.4	4277.0	4428.0	4420.3	4266.3	4354.8	4424.9	4257.2	4091.0	4104.7
57.5°	4290.7	4299.9	4580.4	4882.4	5062.3	5097.3	4996.7	4760.4	4360.9	4040.7	4020.9
60°	3956.8	4043.7	4382.2	5063.8	5885.7	6291.3	5621.9	4798.5	4118.4	3729.6	3700.6
62.5°	3162.4	3167.0	3670.2	4704.0	6398.0	7460.8	5861.3	4440.2	3471.9	3031.3	2915.4
64°	2252.1	2294.8	2872.7	4164.2	6291.3	7936.5	5832.3	3972.1	2862.0	2236.9	2156.0
65°	1616.3	1675.7	2233.8	3615.3	6041.2	7880.1	5745.4	3569.5	2314.6	1707.8	1625.4
67.5°	594.7	619.1	876.7	1808.4	4338.0	6715.1	4553.0	1962.4	1017.0	724.3	651.1
70°	276.0	277.5	324.8	597.7	1896.8	4490.5	2172.8	736.5	382.7	303.4	282.1
72.5°	202.8	207.4	227.2	276.0	558.1	1901.4	713.6	301.9	224.1	198.2	193.6
75°	164.7	167.7	173.8	199.7	257.7	509.3	289.7	208.9	178.4	160.1	154.0
77.5°	126.6	126.6	140.3	152.5	170.8	237.9	192.1	166.2	144.9	126.6	122.0
80°	91.5	93.0	109.8	118.9	115.9	157.1	138.8	137.2	118.9	99.1	91.5
82.5°	53.4	57.9	79.3	85.4	82.3	93.0	100.6	106.7	93.0	68.6	62.5
85°	30.5	32.0	45.7	47.3	47.3	44.2	57.9	64.0	62.5	42.7	38.1
87.5°	9.1	9.1	12.2	12.2	13.7	15.2	22.9	27.4	30.5	21.3	19.8
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: P478779
 CATALOG NUMBER: IFLD-S-SA2E-722-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1581.2	1558.3	1559.9	1566.0	1546.1	1553.8	1576.6	1559.9	1555.3	1546.1	1541.6
5°	1573.6	1598.0	1588.8	1591.9	1587.3	1566.0	1562.9	1576.6	1584.2	1570.5	1598.0
7.5°	1626.9	1616.3	1604.1	1608.6	1598.0	1616.3	1628.5	1601.0	1614.7	1607.1	1591.9
10°	1657.4	1637.6	1646.8	1643.7	1636.1	1654.4	1642.2	1639.1	1626.9	1610.2	1634.6
12.5°	1668.1	1691.0	1706.2	1680.3	1684.9	1675.7	1668.1	1668.1	1654.4	1649.8	1654.4
15°	1715.4	1735.2	1729.1	1748.9	1723.0	1732.2	1741.3	1718.4	1730.6	1697.1	1723.0
17.5°	1802.3	1785.5	1806.9	1780.9	1790.1	1808.4	1779.4	1779.4	1788.6	1770.3	1747.4
20°	1857.2	1849.6	1841.9	1843.5	1828.2	1845.0	1835.8	1831.3	1817.5	1823.6	1835.8
22.5°	1909.0	1898.4	1901.4	1906.0	1916.7	1909.0	1904.5	1909.0	1875.5	1906.0	1863.3
25°	1973.1	2002.0	1992.9	2012.7	1982.2	2002.0	2000.5	1971.5	1989.8	1977.6	1968.5
27.5°	2079.8	2064.6	2078.3	2053.9	2075.2	2076.8	2058.5	2107.2	2085.9	2082.9	2076.8
30°	2217.0	2206.4	2197.2	2183.5	2200.3	2186.5	2201.8	2206.4	2186.5	2171.3	2142.3
32.5°	2294.8	2323.8	2334.4	2300.9	2302.4	2310.0	2296.3	2282.6	2294.8	2299.4	2294.8
35°	2404.6	2432.0	2438.1	2412.2	2398.5	2436.6	2409.2	2454.9	2415.3	2416.8	2375.6
37.5°	2532.7	2540.3	2592.1	2563.2	2551.0	2532.7	2583.0	2576.9	2586.0	2512.8	2549.4
40°	2677.5	2705.0	2733.9	2660.7	2659.2	2676.0	2672.9	2708.0	2691.2	2680.6	2654.6
42.5°	2836.1	2894.0	2898.6	2849.8	2819.3	2816.3	2831.5	2909.3	2910.8	2840.7	2810.2
45°	3046.5	3110.6	3093.8	2999.2	2965.7	2961.1	3035.8	3069.4	3098.4	3070.9	3045.0
47.5°	3308.8	3351.5	3339.3	3252.4	3144.1	3174.6	3247.8	3353.0	3322.5	3285.9	3255.4
50°	3589.3	3639.7	3613.7	3526.8	3423.1	3423.1	3513.1	3647.3	3638.1	3566.5	3539.0
52.5°	3900.4	3973.6	4033.0	3909.5	3822.6	3836.4	3978.2	4026.9	4004.1	3953.8	3930.9
55°	4132.2	4272.4	4394.4	4400.5	4405.1	4403.6	4440.2	4489.0	4325.8	4245.0	4162.7
57.5°	4075.7	4341.1	4758.8	5042.5	5126.3	5170.5	5158.3	4932.7	4546.9	4281.6	4309.0
60°	3673.2	4106.2	4780.2	5690.5	6300.4	6239.4	6016.8	5124.8	4424.9	3976.6	3920.2
62.5°	2930.6	3452.1	4421.9	5873.5	7553.8	7535.5	6370.5	4681.1	3686.9	3119.7	3084.6
64°	2207.9	2756.8	3944.6	5826.2	7992.9	8011.2	6280.6	4135.2	2884.9	2207.9	2154.5
65°	1689.5	2198.7	3476.5	5728.6	7898.4	7909.0	6030.5	3571.0	2192.6	1567.5	1509.5
67.5°	672.4	936.2	1886.2	4344.1	6782.2	6753.3	4302.9	1727.6	838.6	545.9	535.2
70°	286.7	356.8	661.8	2058.5	4540.8	4456.9	1852.6	561.1	311.1	260.7	259.2
72.5°	196.7	218.0	283.6	635.8	1887.7	1843.5	527.6	260.7	211.9	195.2	195.2
75°	158.6	173.8	205.8	266.8	500.1	481.8	248.5	192.1	169.3	157.1	155.5
77.5°	123.5	138.8	161.6	184.5	228.7	227.2	166.2	144.9	131.1	122.0	118.9
80°	97.6	112.8	128.1	131.1	149.4	146.4	112.8	114.4	106.7	88.4	86.9
82.5°	67.1	91.5	102.2	93.0	88.4	88.4	80.8	80.8	74.7	54.9	50.3
85°	41.2	61.0	64.0	54.9	41.2	41.2	44.2	42.7	39.6	29.0	27.4
87.5°	21.3	29.0	25.9	21.3	13.7	13.7	12.2	9.1	9.1	7.6	7.6
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)