

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: P479445

Luminaire Tested: **IFLD-S-SA3C-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479445
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

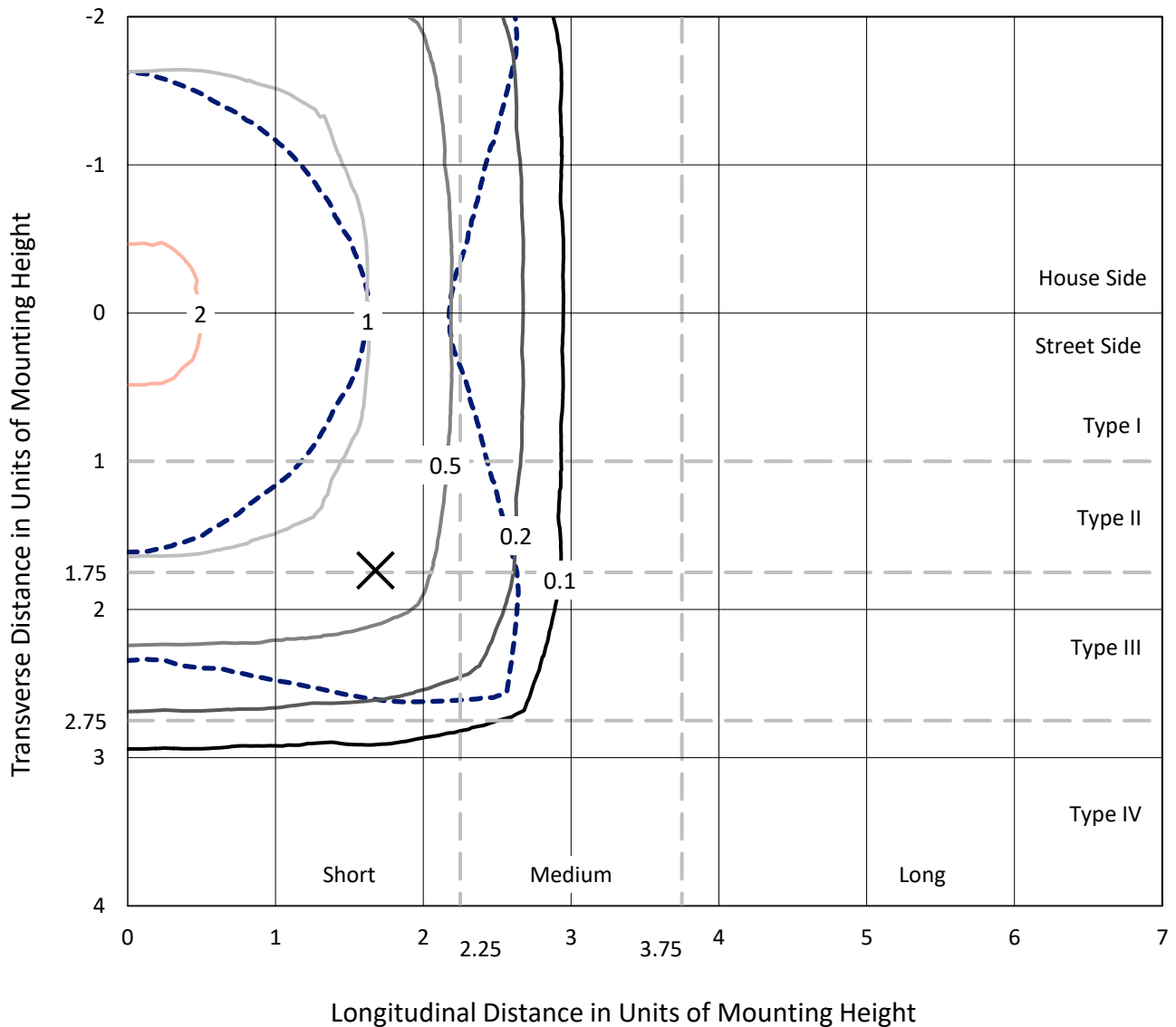
Lumens per Lamp: N/A
Luminaire Lumens: 15717.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8
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

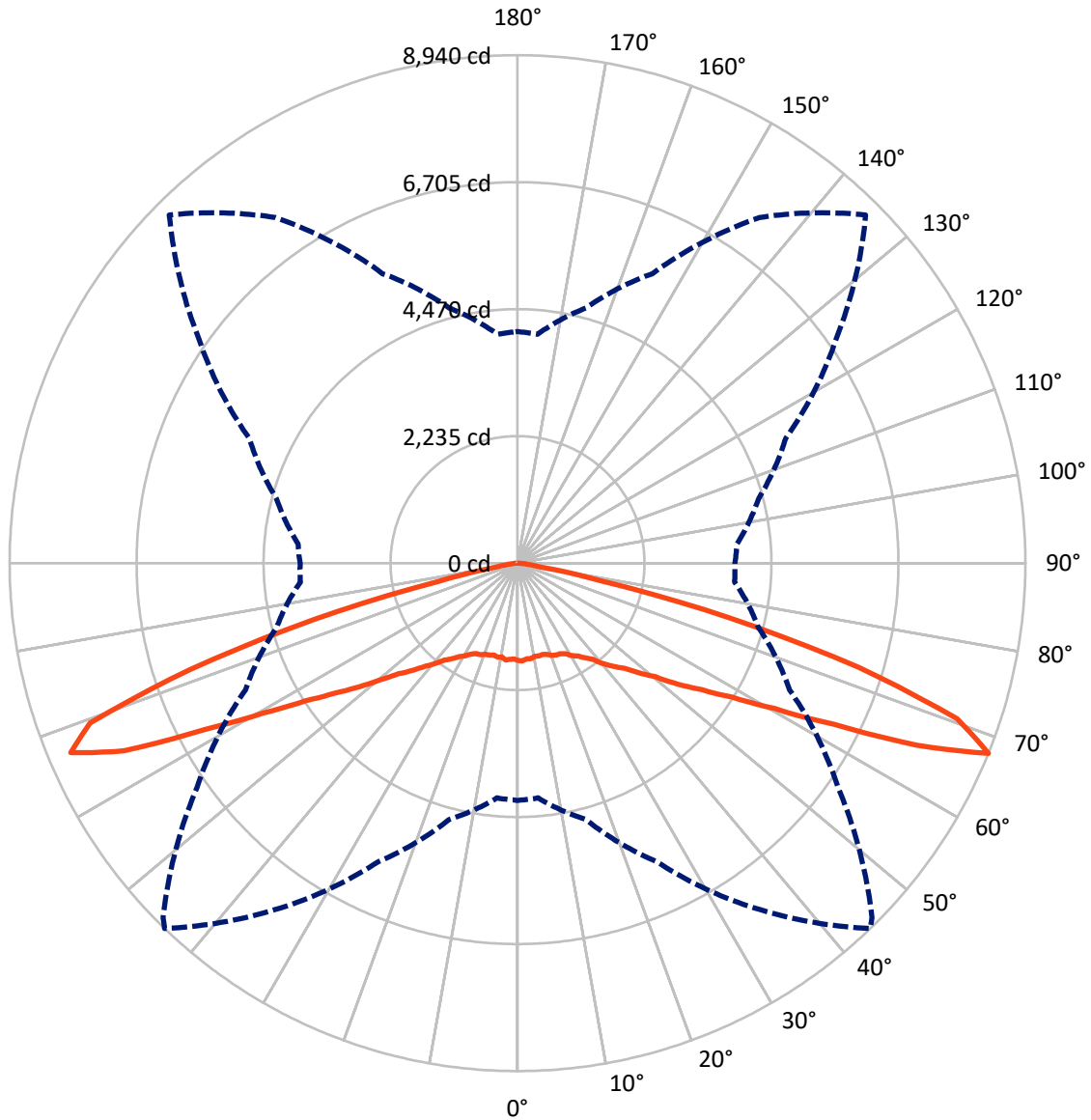
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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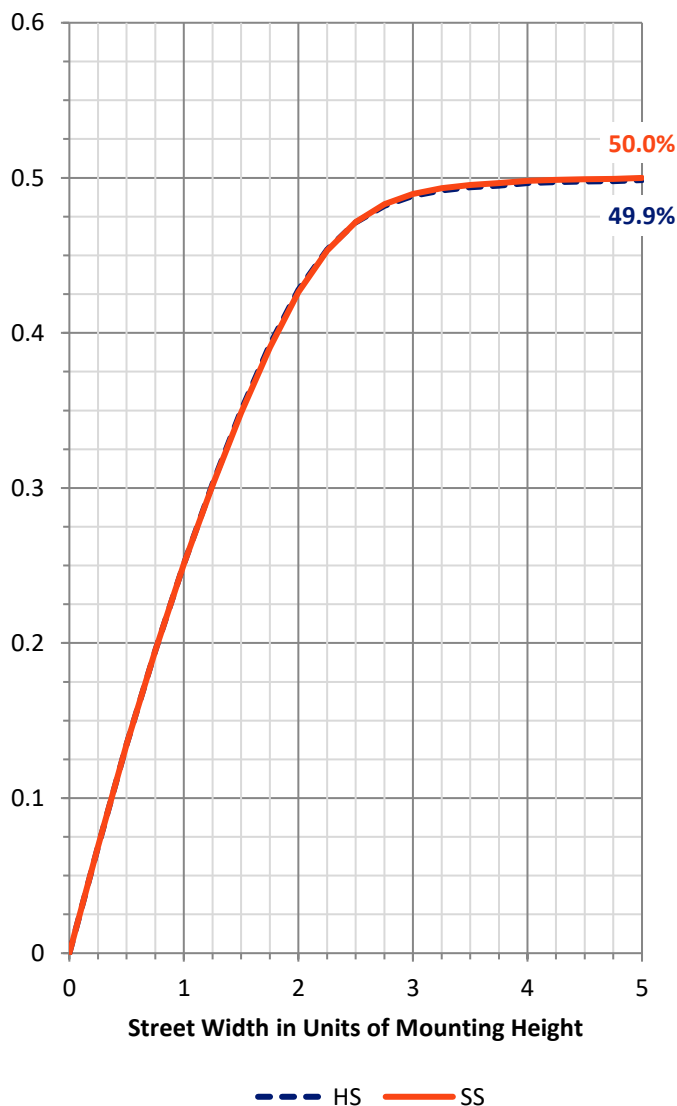
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7838.6	0.0	7838.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7878.8	0.0	7878.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	15717.4	0.0	15717.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	1.0
10°-20°	474.6	3.0
20°-30°	807.2	5.1
30°-40°	1279.8	8.1
40°-50°	2086.8	13.3
50°-60°	3563.9	22.7
60°-70°	5420.7	34.5
70°-80°	1827.1	11.6
80°-90°	94.9	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°	15717.4	100.0
0°-180°	15717.4	100.0

Coefficient of Utilization



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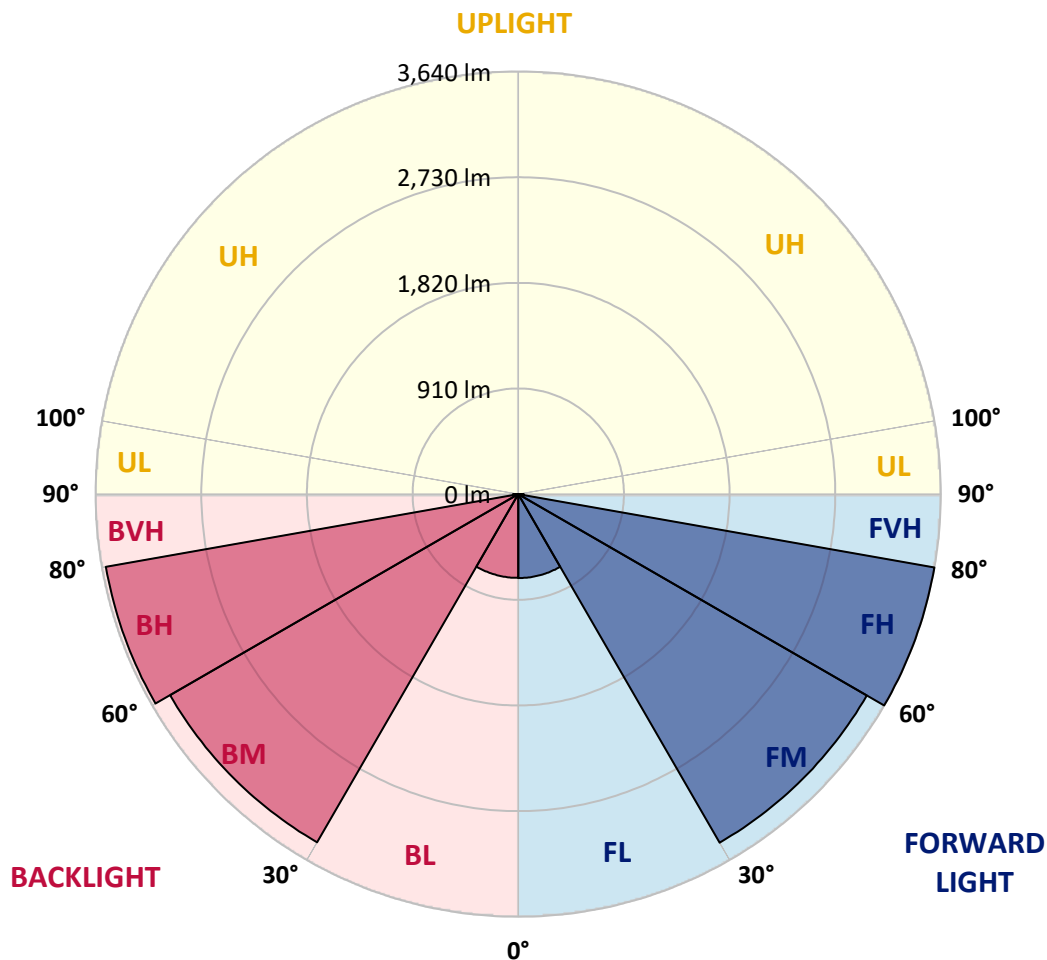
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.9	4.6			
FM (30°-60°)	3467.1	22.1			
FH (60°-80°)	3640.3	23.2			G2/5000
FVH (80°-90°)	48.5	0.3			G1/100
BL (0°-30°)	721.4	4.6	B2/1000		
BM (30°-60°)	3463.4	22.0	B3/5000		
BH (60°-80°)	3607.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	46.3	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°	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9
2.5°	1677.4	1697.1	1711.5	1709.7	1715.1	1720.4	1713.3	1724.0	1716.9	1729.4	1736.6
5°	1709.7	1704.3	1706.1	1695.3	1720.4	1691.7	1691.7	1706.1	1724.0	1702.5	1715.1
7.5°	1689.9	1686.4	1677.4	1693.5	1698.9	1698.9	1713.3	1686.4	1716.9	1724.0	1725.8
10°	1668.4	1648.7	1675.6	1691.7	1695.3	1666.6	1679.2	1686.4	1677.4	1686.4	1691.7
12.5°	1650.5	1661.2	1661.2	1661.2	1655.9	1675.6	1688.1	1686.4	1668.4	1684.6	1655.9
15°	1648.7	1643.3	1659.4	1673.8	1664.8	1668.4	1673.8	1689.9	1655.9	1663.0	1663.0
17.5°	1646.9	1654.1	1659.4	1657.7	1688.1	1688.1	1682.8	1672.0	1698.9	1684.6	1664.8
20°	1654.1	1648.7	1663.0	1668.4	1689.9	1733.0	1716.9	1707.9	1693.5	1675.6	1675.6
22.5°	1663.0	1659.4	1679.2	1702.5	1743.8	1754.5	1752.7	1742.0	1716.9	1695.3	1691.7
25°	1695.3	1663.0	1684.6	1729.4	1743.8	1765.3	1779.6	1765.3	1731.2	1736.6	1704.3
27.5°	1743.8	1738.4	1767.1	1797.6	1785.0	1804.8	1792.2	1803.0	1804.8	1777.8	1745.6
30°	1801.2	1785.0	1803.0	1862.2	1867.5	1889.1	1867.5	1838.8	1847.8	1824.5	1808.3
32.5°	1883.7	1878.3	1912.4	1951.9	1959.0	1948.3	1937.5	1953.7	1916.0	1898.0	1869.3
35°	1937.5	1960.8	2002.1	2032.6	2055.9	2045.2	2050.5	2034.4	2043.4	2005.7	1993.1
37.5°	2097.2	2088.2	2097.2	2149.2	2154.6	2149.2	2154.6	2172.5	2160.0	2127.7	2095.4
40°	2247.9	2233.5	2255.1	2314.3	2310.7	2328.6	2292.7	2312.5	2312.5	2251.5	2238.9
42.5°	2360.9	2409.3	2434.4	2482.9	2500.8	2484.7	2477.5	2481.1	2520.6	2448.8	2421.9
45°	2594.1	2592.3	2667.7	2694.6	2644.3	2640.8	2626.4	2669.5	2696.4	2655.1	2644.3
47.5°	2847.1	2859.6	2902.7	2913.4	2943.9	2888.3	2888.3	2893.7	2988.8	2891.9	2841.7
50°	3074.9	3091.1	3177.2	3261.5	3204.1	3144.9	3168.2	3196.9	3248.9	3157.4	3114.4
52.5°	3351.2	3439.1	3496.5	3541.3	3582.6	3541.3	3487.5	3519.8	3622.1	3500.1	3446.3
55°	3749.4	3819.4	3873.2	3955.8	3989.8	3934.2	3928.8	3925.3	3982.7	3853.5	3779.9
57.5°	4194.4	4165.7	4251.8	4379.1	4502.9	4449.1	4433.0	4436.5	4450.9	4267.9	4212.3
60°	4746.9	4779.2	4881.5	4992.7	5123.6	5199.0	5093.1	5032.2	5044.7	4795.3	4709.2
62.5°	5062.7	5134.4	5365.8	5748.0	6011.7	6246.7	6262.8	5866.4	5600.8	5116.5	4750.5
65°	4910.2	4899.4	5335.3	6042.2	7041.4	7724.9	7622.7	6661.1	5733.6	4964.0	4472.4
67.5°	4176.4	4147.7	4675.1	5796.4	7446.9	8939.5	8822.9	6885.3	5285.1	4391.7	3835.6
70°	2691.0	2683.8	3256.1	4418.6	6648.5	8207.5	8250.6	6253.9	4302.0	3216.6	2665.9
72.5°	977.7	1036.9	1368.8	2375.2	4515.5	6279.0	6305.9	4630.3	2473.9	1487.2	1096.1
75°	360.6	371.4	432.4	771.4	2057.7	3855.3	3955.8	2246.1	879.1	484.4	394.7
77.5°	208.1	209.9	231.4	287.0	610.0	1505.2	1566.2	681.7	340.9	258.3	238.6
80°	141.7	139.9	163.3	186.6	244.0	427.0	453.9	285.2	215.3	179.4	150.7
82.5°	82.5	87.9	120.2	132.8	148.9	188.4	192.0	177.6	161.5	132.8	98.7
85°	50.2	41.3	66.4	73.6	86.1	84.3	84.3	96.9	104.1	93.3	55.6
87.5°	12.6	12.6	16.1	17.9	23.3	17.9	19.7	37.7	50.2	46.6	28.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9	1716.9
2.5°	1720.4	1715.1	1718.6	1738.4	1725.8	1688.1	1697.1	1716.9	1700.7	1691.7	1689.9
5°	1713.3	1724.0	1711.5	1715.1	1727.6	1697.1	1702.5	1727.6	1716.9	1720.4	1700.7
7.5°	1715.1	1720.4	1709.7	1693.5	1693.5	1718.6	1704.3	1707.9	1691.7	1718.6	1682.8
10°	1704.3	1689.9	1677.4	1686.4	1682.8	1675.6	1670.2	1681.0	1664.8	1688.1	1663.0
12.5°	1672.0	1675.6	1672.0	1668.4	1675.6	1693.5	1664.8	1668.4	1643.3	1646.9	1659.4
15°	1659.4	1670.2	1666.6	1686.4	1695.3	1668.4	1689.9	1668.4	1648.7	1637.9	1657.7
17.5°	1664.8	1681.0	1675.6	1689.9	1673.8	1693.5	1697.1	1688.1	1664.8	1655.9	1664.8
20°	1670.2	1664.8	1672.0	1697.1	1720.4	1700.7	1700.7	1695.3	1673.8	1661.2	1661.2
22.5°	1682.8	1673.8	1684.6	1704.3	1711.5	1742.0	1715.1	1702.5	1666.6	1634.3	1664.8
25°	1707.9	1713.3	1720.4	1713.3	1752.7	1749.1	1745.6	1736.6	1681.0	1682.8	1677.4
27.5°	1756.3	1725.8	1734.8	1777.8	1783.2	1797.6	1779.6	1795.8	1736.6	1738.4	1702.5
30°	1815.5	1783.2	1811.9	1849.6	1847.8	1874.7	1865.8	1869.3	1828.1	1804.8	1756.3
32.5°	1880.1	1876.5	1894.5	1917.8	1926.7	1941.1	1939.3	1939.3	1914.2	1853.2	1862.2
35°	1951.9	1977.0	1998.5	2023.6	2027.2	2045.2	2020.0	2023.6	1998.5	1953.7	1968.0
37.5°	2093.6	2091.8	2115.1	2145.6	2149.2	2134.9	2154.6	2145.6	2111.5	2081.0	2057.7
40°	2258.6	2222.8	2244.3	2316.0	2321.4	2296.3	2294.5	2292.7	2267.6	2201.2	2186.9
42.5°	2402.2	2448.8	2445.2	2468.5	2452.4	2439.8	2484.7	2459.6	2439.8	2369.9	2357.3
45°	2586.9	2601.3	2647.9	2723.3	2646.1	2646.1	2676.6	2656.9	2646.1	2594.1	2545.7
47.5°	2816.6	2829.1	2922.4	2927.8	2877.6	2843.5	2938.6	2942.1	2897.3	2857.8	2798.6
50°	3085.7	3091.1	3175.4	3261.5	3205.9	3141.3	3238.2	3275.8	3175.4	3121.5	3048.0
52.5°	3381.7	3365.5	3435.5	3597.0	3543.1	3523.4	3627.5	3636.4	3500.1	3415.8	3435.5
55°	3722.5	3701.0	3891.2	4000.6	3966.5	3930.6	3977.3	3998.8	3889.4	3751.2	3799.7
57.5°	4163.9	4174.6	4269.7	4377.3	4433.0	4441.9	4463.5	4441.9	4330.7	4190.8	4145.9
60°	4605.2	4637.5	4822.3	5025.0	5042.9	5200.8	5172.1	5064.4	4906.6	4707.4	4716.4
62.5°	4768.4	4741.5	5039.3	5534.5	5956.1	6244.9	6117.5	5735.4	5369.4	5007.0	5033.9
65°	4440.1	4506.5	4912.0	5687.0	6601.9	7744.7	7066.5	6009.9	5270.8	4802.5	4750.5
67.5°	3826.6	3876.8	4391.7	5209.8	6833.3	8666.8	7425.3	5622.4	4648.2	4041.9	4074.2
70°	2665.9	2691.0	3195.1	4267.9	6196.5	8178.8	6698.8	4318.1	3209.5	2558.2	2594.1
72.5°	1072.8	1133.8	1465.7	2570.8	4574.7	6214.4	4510.1	2265.8	1331.1	990.3	898.8
75°	396.5	398.3	468.2	884.4	2172.5	3905.5	2034.4	728.4	425.2	348.0	331.9
77.5°	229.6	227.8	244.0	319.3	629.7	1524.9	577.7	285.2	231.4	208.1	199.1
80°	143.5	141.7	166.8	211.7	276.3	418.0	244.0	177.6	156.1	134.5	134.5
82.5°	91.5	93.3	131.0	156.1	168.6	184.8	141.7	125.6	116.6	77.1	75.3
85°	59.2	53.8	91.5	104.1	93.3	82.5	78.9	66.4	61.0	37.7	41.3
87.5°	26.9	28.7	46.6	52.0	34.1	19.7	19.7	14.4	14.4	9.0	9.0
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)