

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: P479208

Luminaire Tested: **IFLD-S-SA2E-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

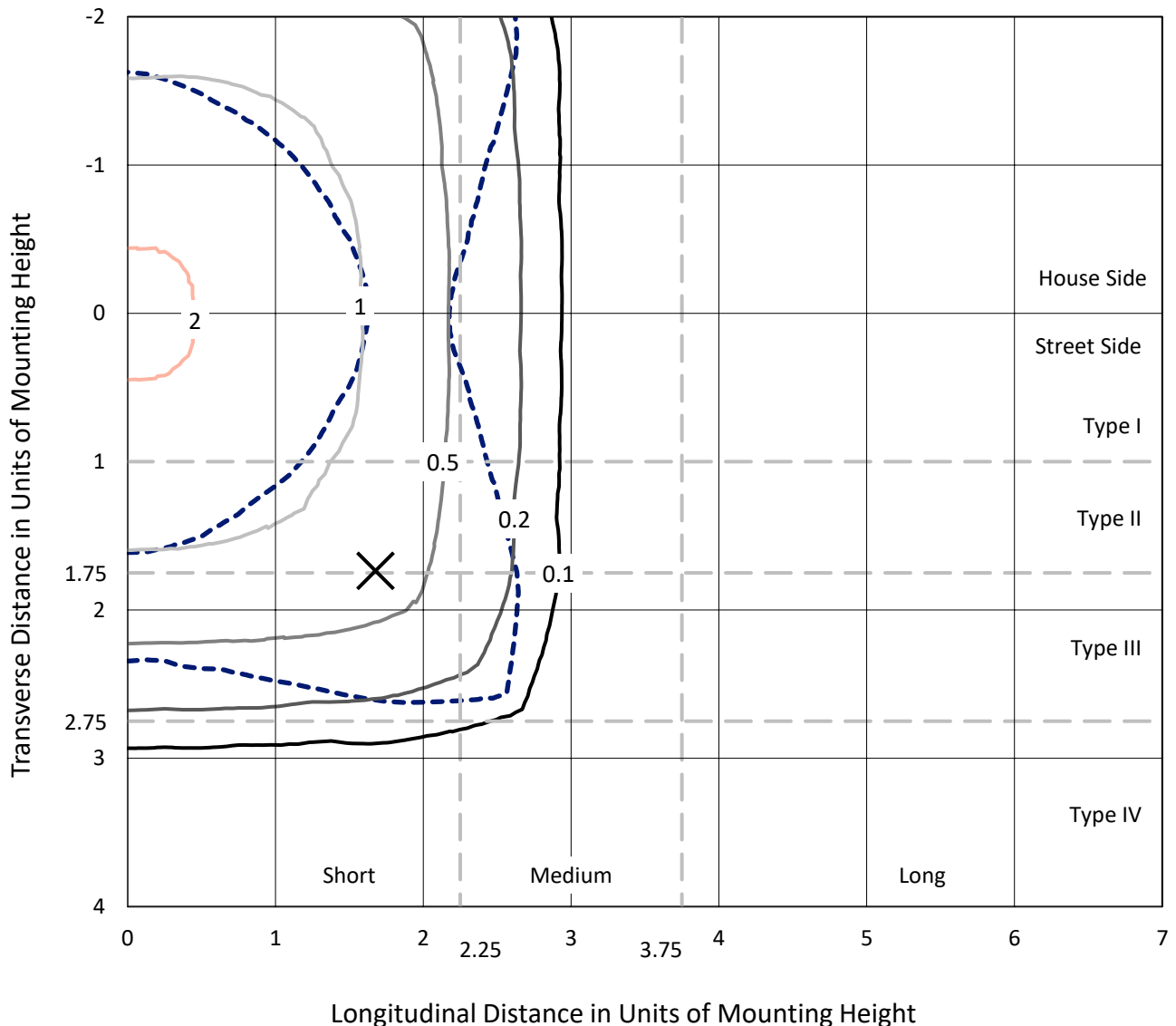
Lumens per Lamp: N/A
Luminaire Lumens: 15278.9 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

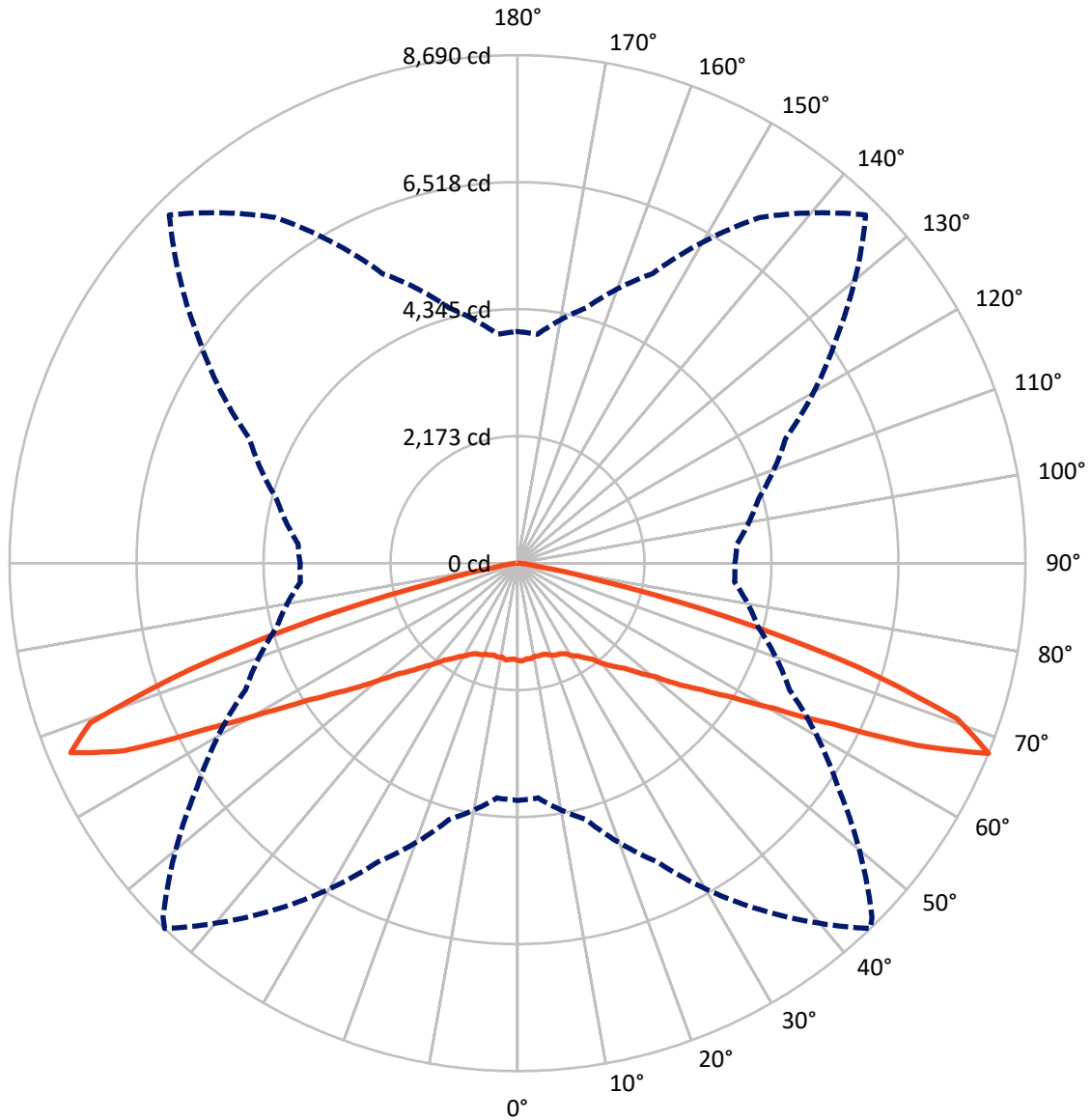
× Max cd
 - - - 1/2 Max cd



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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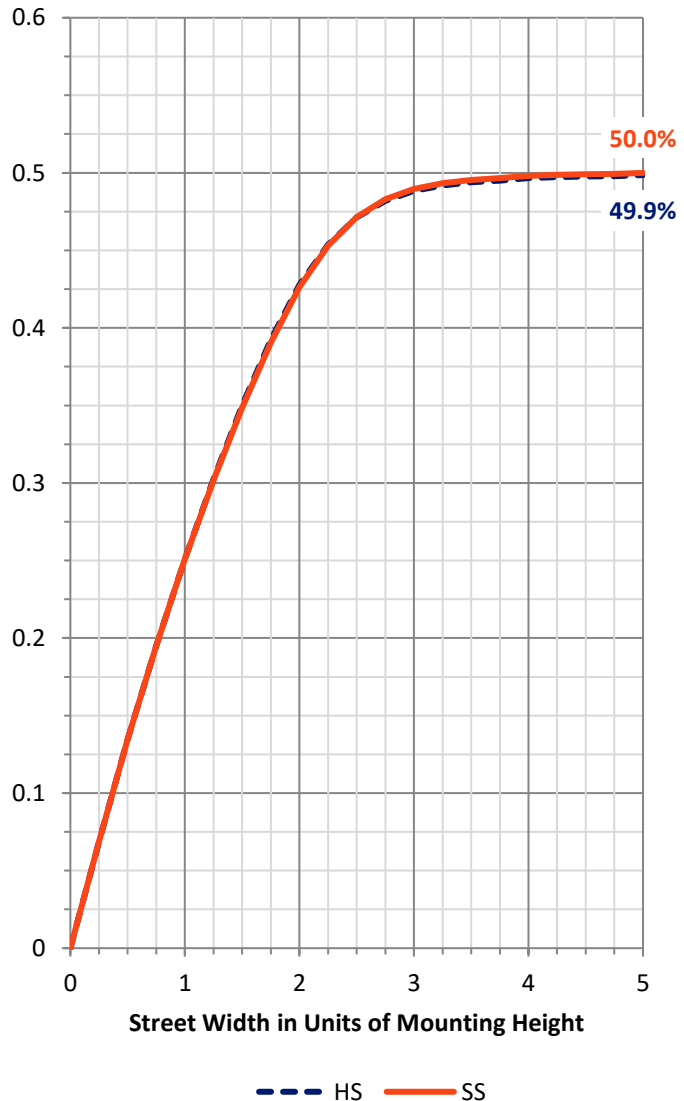
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7619.9	0.0	7619.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7659.0	0.0	7659.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	15278.9	0.0	15278.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	1.0
10°-20°	461.4	3.0
20°-30°	784.6	5.1
30°-40°	1244.1	8.1
40°-50°	2028.6	13.3
50°-60°	3464.5	22.7
60°-70°	5269.5	34.5
70°-80°	1776.1	11.6
80°-90°	92.2	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°	15278.9	100.0
0°-180°	15278.9	100.0

Coefficient of Utilization



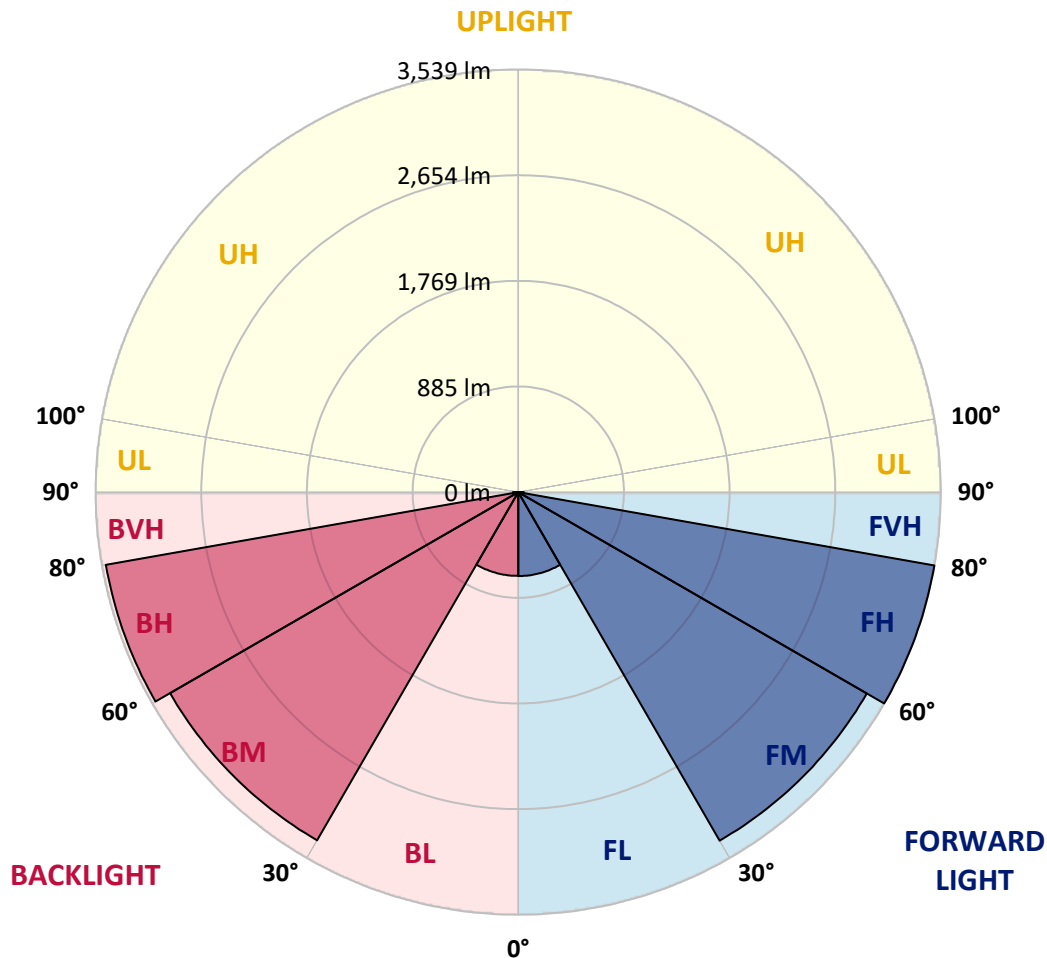
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.7	4.6			
FM (30°-60°)	3370.4	22.1			
FH (60°-80°)	3538.8	23.2			G2/5000
FVH (80°-90°)	47.2	0.3			G1/100
BL (0°-30°)	701.3	4.6	B2/1000		
BM (30°-60°)	3366.7	22.0	B3/5000		
BH (60°-80°)	3506.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	45.0	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°	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1630.6	1649.8	1663.7	1662.0	1667.2	1672.4	1665.5	1675.9	1669.0	1681.2	1688.1
5°	1662.0	1656.8	1658.5	1648.0	1672.4	1644.5	1644.5	1658.5	1675.9	1655.0	1667.2
7.5°	1642.8	1639.3	1630.6	1646.3	1651.5	1651.5	1665.5	1639.3	1669.0	1675.9	1677.7
10°	1621.9	1602.7	1628.8	1644.5	1648.0	1620.1	1632.3	1639.3	1630.6	1639.3	1644.5
12.5°	1604.4	1614.9	1614.9	1614.9	1609.7	1628.8	1641.1	1639.3	1621.9	1637.6	1609.7
15°	1602.7	1597.5	1613.2	1627.1	1618.4	1621.9	1627.1	1642.8	1609.7	1616.6	1616.6
17.5°	1600.9	1607.9	1613.2	1611.4	1641.1	1641.1	1635.8	1625.4	1651.5	1637.6	1618.4
20°	1607.9	1602.7	1616.6	1621.9	1642.8	1684.7	1669.0	1660.2	1646.3	1628.8	1628.8
22.5°	1616.6	1613.2	1632.3	1655.0	1695.1	1705.6	1703.8	1693.4	1669.0	1648.0	1644.5
25°	1648.0	1616.6	1637.6	1681.2	1695.1	1716.0	1730.0	1716.0	1682.9	1688.1	1656.8
27.5°	1695.1	1689.9	1717.8	1747.4	1735.2	1754.4	1742.2	1752.7	1754.4	1728.3	1696.9
30°	1750.9	1735.2	1752.7	1810.2	1815.4	1836.4	1815.4	1787.5	1796.3	1773.6	1757.9
32.5°	1831.1	1825.9	1859.0	1897.4	1904.4	1893.9	1883.5	1899.2	1862.5	1845.1	1817.2
35°	1883.5	1906.1	1946.2	1975.9	1998.6	1988.1	1993.3	1977.6	1986.4	1949.7	1937.5
37.5°	2038.7	2030.0	2038.7	2089.2	2094.5	2089.2	2094.5	2111.9	2099.7	2068.3	2036.9
40°	2185.2	2171.2	2192.1	2249.7	2246.2	2263.6	2228.8	2247.9	2247.9	2188.7	2176.4
42.5°	2295.0	2342.1	2366.5	2413.6	2431.1	2415.4	2408.4	2411.9	2450.2	2380.5	2354.3
45°	2521.7	2520.0	2593.3	2619.4	2570.6	2567.1	2553.1	2595.0	2621.2	2581.0	2570.6
47.5°	2767.6	2779.9	2821.7	2832.2	2861.8	2807.8	2807.8	2813.0	2905.4	2811.2	2762.4
50°	2989.1	3004.8	3088.5	3170.5	3114.7	3057.1	3079.8	3107.7	3158.3	3069.3	3027.5
52.5°	3257.7	3343.1	3399.0	3442.6	3482.7	3442.6	3390.2	3421.6	3521.0	3402.4	3350.1
55°	3644.9	3712.9	3765.2	3845.4	3878.5	3824.5	3819.2	3815.8	3871.6	3746.0	3674.5
57.5°	4077.3	4049.4	4133.2	4257.0	4377.3	4325.0	4309.3	4312.8	4326.7	4148.9	4094.8
60°	4614.5	4645.9	4745.3	4853.4	4980.7	5054.0	4951.1	4891.8	4904.0	4661.6	4577.9
62.5°	4921.4	4991.2	5216.1	5587.6	5844.0	6072.4	6088.1	5702.7	5444.6	4973.7	4618.0
65°	4773.2	4762.7	5186.5	5873.6	6845.0	7509.4	7410.0	6475.3	5573.7	4825.5	4347.7
67.5°	4059.9	4032.0	4544.7	5634.7	7239.1	8690.1	8576.7	6693.3	5137.7	4269.2	3728.6
70°	2615.9	2608.9	3165.3	4295.3	6463.1	7978.6	8020.4	6079.4	4182.0	3126.9	2591.5
72.5°	950.5	1008.0	1330.6	2309.0	4389.5	6103.8	6130.0	4501.1	2404.9	1445.7	1065.6
75°	350.5	361.0	420.3	749.9	2000.3	3747.7	3845.4	2183.4	854.5	470.9	383.7
77.5°	202.3	204.0	225.0	279.0	592.9	1463.2	1522.5	662.7	331.4	251.1	231.9
80°	137.8	136.0	158.7	181.4	237.2	415.1	441.2	277.3	209.3	174.4	146.5
82.5°	80.2	85.5	116.8	129.1	144.7	183.1	186.6	172.7	157.0	129.1	95.9
85°	48.8	40.1	64.5	71.5	83.7	82.0	82.0	94.2	101.1	90.7	54.1
87.5°	12.2	12.2	15.7	17.4	22.7	17.4	19.2	36.6	48.8	45.3	27.9
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°	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1672.4	1667.2	1670.7	1689.9	1677.7	1641.1	1649.8	1669.0	1653.3	1644.5	1642.8
5°	1665.5	1675.9	1663.7	1667.2	1679.4	1649.8	1655.0	1679.4	1669.0	1672.4	1653.3
7.5°	1667.2	1672.4	1662.0	1646.3	1646.3	1670.7	1656.8	1660.2	1644.5	1670.7	1635.8
10°	1656.8	1642.8	1630.6	1639.3	1635.8	1628.8	1623.6	1634.1	1618.4	1641.1	1616.6
12.5°	1625.4	1628.8	1625.4	1621.9	1628.8	1646.3	1618.4	1621.9	1597.5	1600.9	1613.2
15°	1613.2	1623.6	1620.1	1639.3	1648.0	1621.9	1642.8	1621.9	1602.7	1592.2	1611.4
17.5°	1618.4	1634.1	1628.8	1642.8	1627.1	1646.3	1649.8	1641.1	1618.4	1609.7	1618.4
20°	1623.6	1618.4	1625.4	1649.8	1672.4	1653.3	1653.3	1648.0	1627.1	1614.9	1614.9
22.5°	1635.8	1627.1	1637.6	1656.8	1663.7	1693.4	1667.2	1655.0	1620.1	1588.7	1618.4
25°	1660.2	1665.5	1672.4	1665.5	1703.8	1700.3	1696.9	1688.1	1634.1	1635.8	1630.6
27.5°	1707.3	1677.7	1686.4	1728.3	1733.5	1747.4	1730.0	1745.7	1688.1	1689.9	1655.0
30°	1764.9	1733.5	1761.4	1798.0	1796.3	1822.4	1813.7	1817.2	1777.1	1754.4	1707.3
32.5°	1827.7	1824.2	1841.6	1864.3	1873.0	1887.0	1885.2	1885.2	1860.8	1801.5	1810.2
35°	1897.4	1921.8	1942.8	1967.2	1970.7	1988.1	1963.7	1967.2	1942.8	1899.2	1913.1
37.5°	2035.2	2033.4	2056.1	2085.8	2089.2	2075.3	2094.5	2085.8	2052.6	2023.0	2000.3
40°	2195.6	2160.8	2181.7	2251.4	2256.7	2232.3	2230.5	2228.8	2204.3	2139.8	2125.9
42.5°	2335.1	2380.5	2377.0	2399.7	2384.0	2371.8	2415.4	2391.0	2371.8	2303.8	2291.5
45°	2514.8	2528.7	2574.1	2647.3	2572.3	2572.3	2602.0	2582.8	2572.3	2521.7	2474.7
47.5°	2738.0	2750.2	2840.9	2846.1	2797.3	2764.2	2856.6	2860.1	2816.5	2778.1	2720.6
50°	2999.6	3004.8	3086.8	3170.5	3116.4	3053.7	3147.8	3184.4	3086.8	3034.5	2963.0
52.5°	3287.3	3271.6	3339.7	3496.6	3444.3	3425.1	3526.3	3535.0	3402.4	3320.5	3339.7
55°	3618.7	3597.8	3782.6	3889.0	3855.9	3821.0	3866.3	3887.3	3780.9	3646.6	3693.7
57.5°	4047.7	4058.2	4150.6	4255.2	4309.3	4318.0	4338.9	4318.0	4209.9	4073.9	4030.3
60°	4476.7	4508.1	4687.7	4884.8	4902.2	5055.7	5027.8	4923.2	4769.7	4576.1	4584.8
62.5°	4635.4	4609.3	4898.7	5380.1	5789.9	6070.7	5946.9	5575.4	5219.6	4867.4	4893.5
65°	4316.3	4380.8	4774.9	5528.3	6417.7	7528.6	6869.4	5842.2	5123.7	4668.5	4618.0
67.5°	3719.8	3768.7	4269.2	5064.4	6642.7	8425.0	7218.2	5465.5	4518.6	3929.1	3960.5
70°	2591.5	2615.9	3106.0	4148.9	6023.6	7950.7	6511.9	4197.7	3119.9	2486.9	2521.7
72.5°	1042.9	1102.2	1424.8	2499.1	4447.1	6041.0	4384.3	2202.6	1294.0	962.7	873.7
75°	385.4	387.2	455.2	859.8	2111.9	3796.6	1977.6	708.0	413.3	338.3	322.6
77.5°	223.2	221.5	237.2	310.4	612.1	1482.4	561.6	277.3	225.0	202.3	193.6
80°	139.5	137.8	162.2	205.8	268.6	406.3	237.2	172.7	151.7	130.8	130.8
82.5°	88.9	90.7	127.3	151.7	163.9	179.6	137.8	122.1	113.4	75.0	73.2
85°	57.6	52.3	88.9	101.1	90.7	80.2	76.7	64.5	59.3	36.6	40.1
87.5°	26.2	27.9	45.3	50.6	33.1	19.2	19.2	14.0	14.0	8.7	8.7
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)