

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: P478855

Luminaire Tested: **IFLD-S-SA2C-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

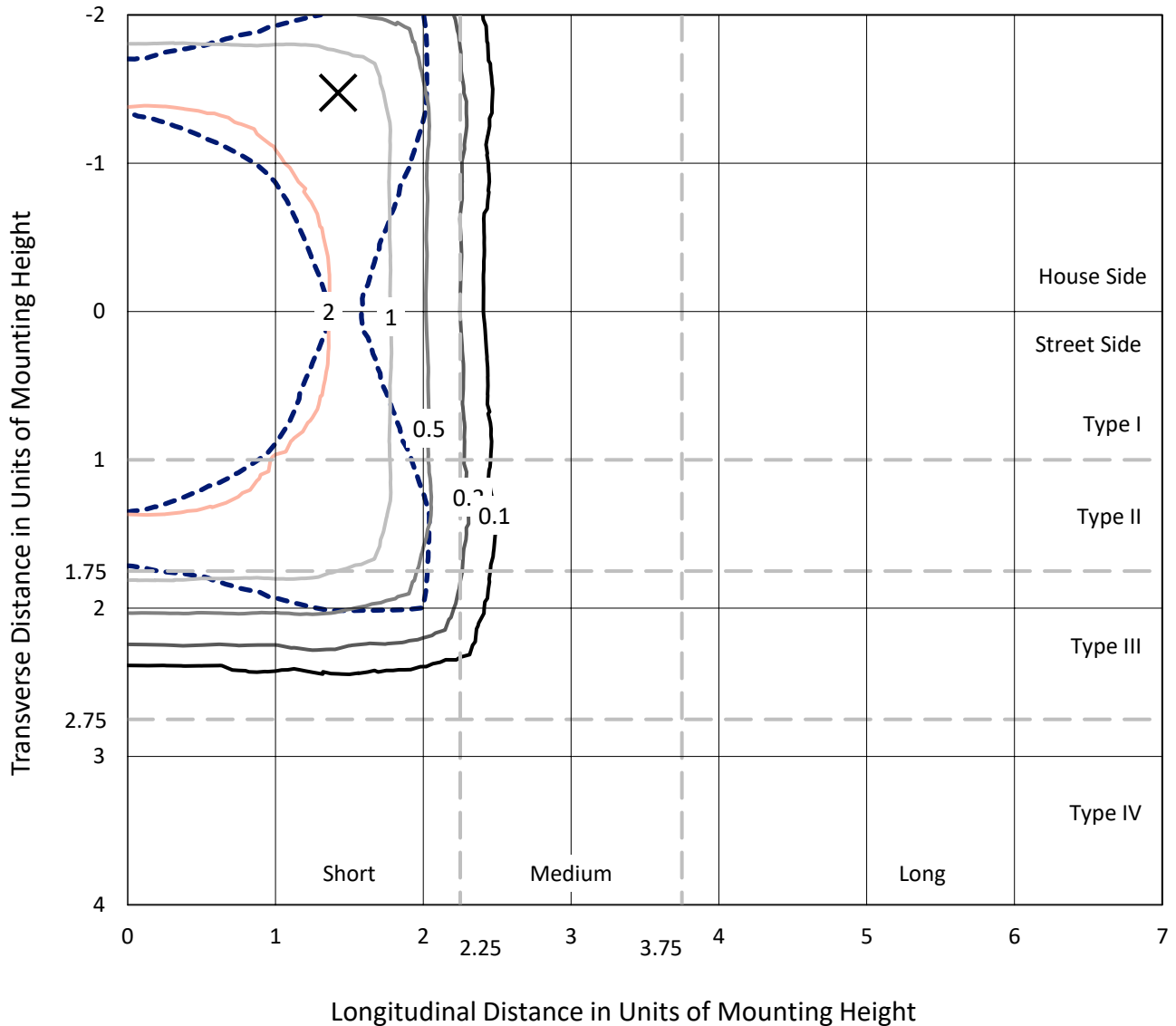
Lumens per Lamp: N/A
Luminaire Lumens: 12908.7 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108.2
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

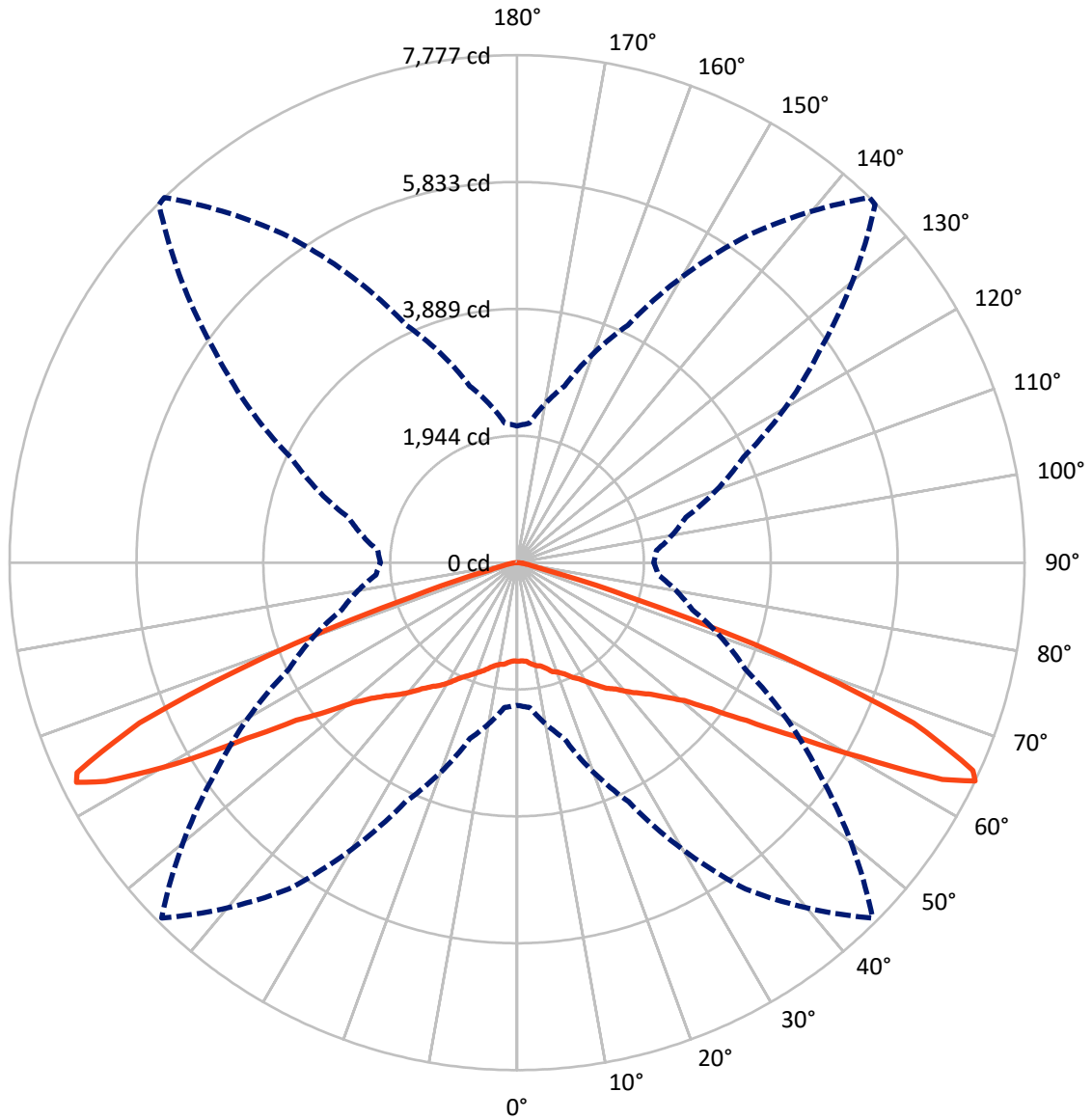
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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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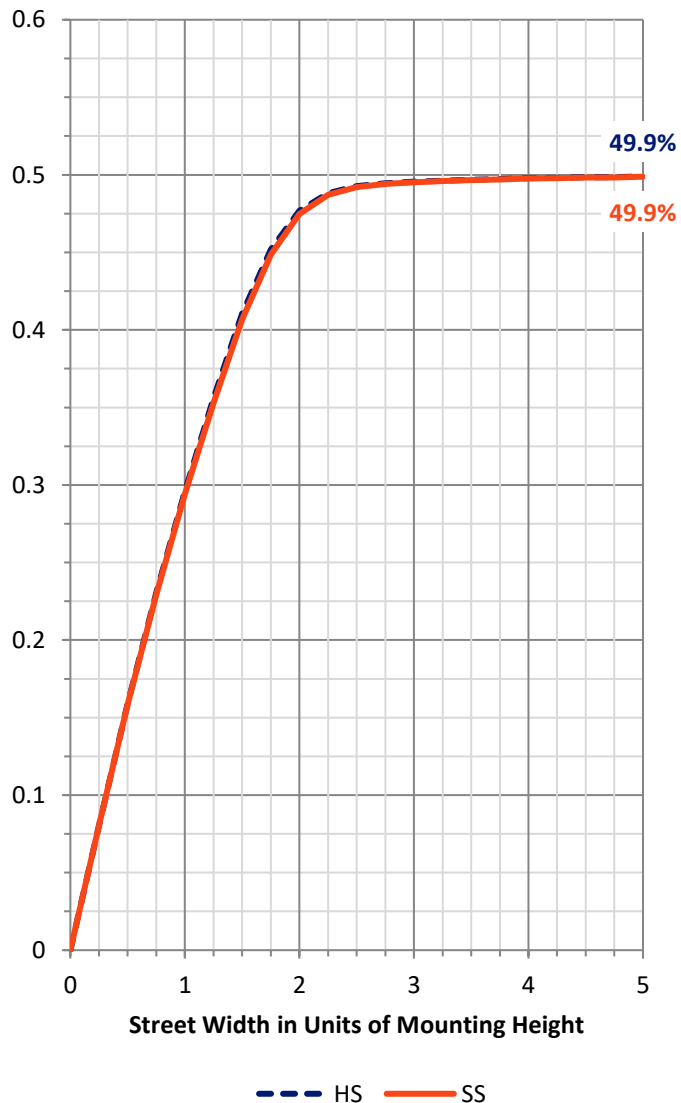
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6460.5	0.0	6460.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6448.2	0.0	6448.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12908.7	0.0	12908.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.2
10°-20°	478.6	3.7
20°-30°	899.5	7.0
30°-40°	1483.5	11.5
40°-50°	2320.0	18.0
50°-60°	3748.6	29.0
60°-70°	3375.4	26.1
70°-80°	399.8	3.1
80°-90°	54.7	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°	12908.7	100.0
0°-180°	12908.7	100.0

Coefficient of Utilization



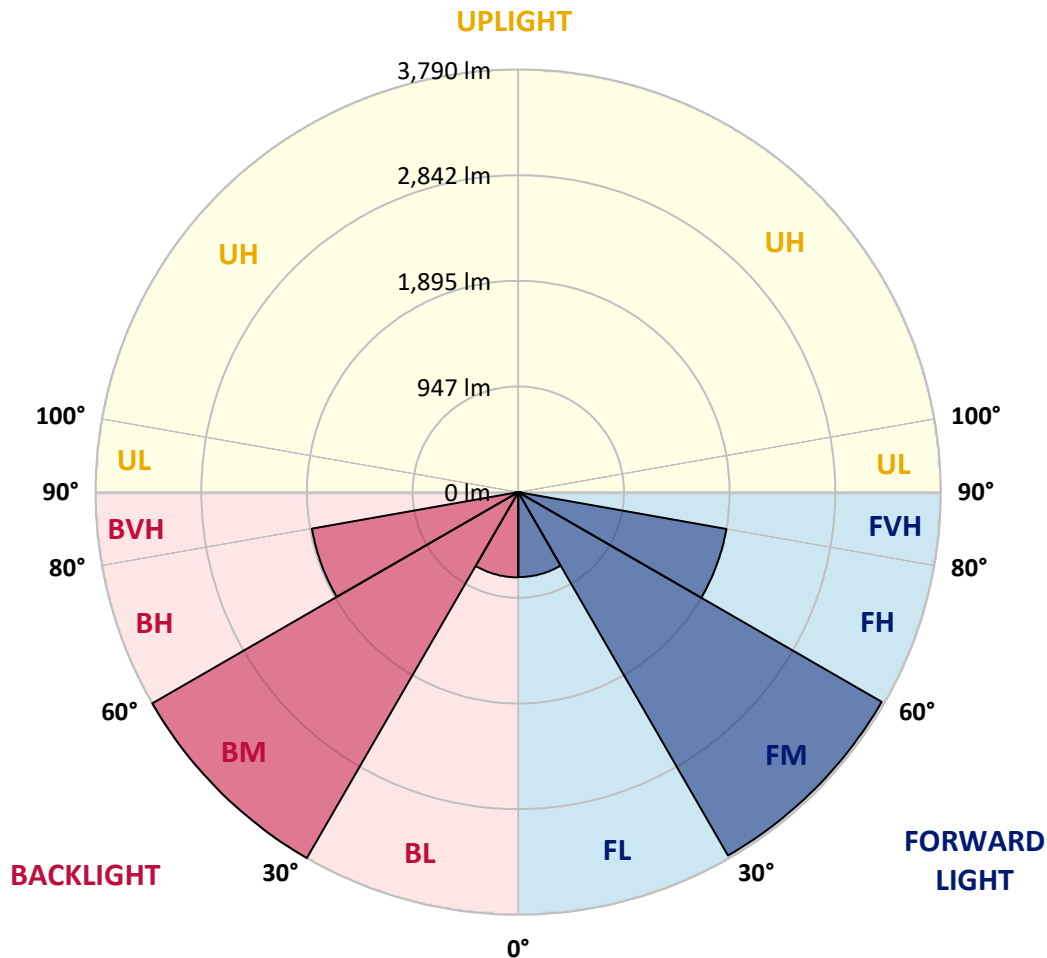
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.9	5.9			
FM (30°-60°)	3762.5	29.1			
FH (60°-80°)	1895.8	14.7			G2/5000
FVH (80°-90°)	28.1	0.2			G1/100
BL (0°-30°)	764.8	5.9	B2/1000		
BM (30°-60°)	3789.6	29.4	B3/5000		
BH (60°-80°)	1879.4	14.6	B3/2500		G2/5000
BVH (80°-90°)	26.7	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°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1493.6	1496.5	1523.2	1512.8	1521.7	1505.4	1517.3	1542.4	1512.8	1535.0	1542.4
5°	1509.9	1514.3	1514.3	1524.7	1530.6	1527.6	1535.0	1524.7	1552.8	1541.0	1558.7
7.5°	1569.1	1561.7	1549.8	1558.7	1560.2	1567.6	1575.0	1588.3	1583.9	1573.5	1591.3
10°	1579.4	1573.5	1591.3	1592.8	1585.4	1579.4	1586.8	1586.8	1600.2	1603.1	1603.1
12.5°	1597.2	1603.1	1601.6	1613.5	1615.0	1610.5	1622.4	1644.6	1638.6	1643.1	1632.7
15°	1665.3	1657.9	1656.4	1668.3	1687.5	1659.4	1680.1	1678.6	1672.7	1681.6	1657.9
17.5°	1724.5	1700.8	1711.2	1730.4	1723.0	1728.9	1755.6	1731.9	1737.8	1727.5	1720.1
20°	1776.3	1757.1	1758.6	1766.0	1766.0	1783.7	1794.1	1785.2	1779.3	1777.8	1780.8
22.5°	1834.0	1811.8	1813.3	1844.4	1854.8	1848.8	1841.4	1856.2	1859.2	1847.4	1860.7
25°	1877.0	1900.7	1908.1	1922.9	1900.7	1916.9	1911.0	1939.1	1956.9	1933.2	1949.5
27.5°	1989.5	1979.1	1998.4	1996.9	2014.6	1998.4	2008.7	2017.6	2025.0	2026.5	2019.1
30°	2090.1	2094.6	2075.3	2127.1	2085.7	2112.3	2130.1	2134.5	2143.4	2143.4	2121.2
32.5°	2196.7	2187.8	2218.9	2207.1	2199.7	2220.4	2201.1	2261.8	2226.3	2247.0	2221.9
35°	2316.6	2316.6	2328.5	2361.0	2316.6	2303.3	2338.8	2364.0	2364.0	2327.0	2335.9
37.5°	2451.3	2439.5	2454.3	2495.7	2461.7	2417.3	2482.4	2492.8	2485.4	2475.0	2457.2
40°	2546.0	2543.1	2572.7	2627.5	2578.6	2569.7	2581.6	2609.7	2618.6	2628.9	2605.3
42.5°	2705.9	2719.2	2805.1	2791.8	2751.8	2720.7	2717.8	2822.9	2797.7	2771.0	2757.7
45°	2942.8	2930.9	2975.3	2976.8	2925.0	2856.9	2871.7	2967.9	3010.9	2951.6	2973.8
47.5°	3130.8	3136.7	3167.8	3231.4	3111.5	3040.5	3095.2	3250.7	3237.3	3215.1	3235.9
50°	3382.4	3409.0	3506.7	3484.5	3378.0	3290.6	3410.5	3557.1	3573.4	3491.9	3477.1
52.5°	3730.3	3771.7	3825.0	3842.8	3740.6	3709.5	3716.9	3899.0	3859.0	3780.6	3730.3
55°	4035.2	4054.4	4152.1	4298.7	4291.3	4141.8	4227.6	4295.7	4132.9	3971.5	3984.9
57.5°	4165.5	4174.3	4446.7	4739.8	4914.5	4948.5	4850.8	4621.4	4233.5	3922.7	3903.4
60°	3841.3	3925.7	4254.3	4915.9	5713.8	6107.6	5457.7	4658.4	3998.2	3620.7	3592.6
62.5°	3070.1	3074.5	3563.0	4566.6	6211.2	7242.9	5690.1	4310.5	3370.6	2942.8	2830.3
64°	2186.3	2227.8	2788.8	4042.6	6107.6	7704.8	5662.0	3856.1	2778.5	2171.5	2093.1
65°	1569.1	1626.8	2168.6	3509.7	5864.8	7650.0	5577.6	3465.3	2247.0	1657.9	1578.0
67.5°	577.3	601.0	851.2	1755.6	4211.3	6519.1	4420.1	1905.1	987.3	703.1	632.1
70°	267.9	269.4	315.3	580.3	1841.4	4359.4	2109.4	715.0	371.5	294.6	273.8
72.5°	196.9	201.3	220.6	267.9	541.8	1845.9	692.8	293.1	217.6	192.4	188.0
75°	159.9	162.8	168.7	193.9	250.2	494.4	281.2	202.8	173.2	155.4	149.5
77.5°	122.9	122.9	136.2	148.0	165.8	230.9	186.5	161.3	140.6	122.9	118.4
80°	88.8	90.3	106.6	115.5	112.5	152.5	134.7	133.2	115.5	96.2	88.8
82.5°	51.8	56.2	77.0	82.9	79.9	90.3	97.7	103.6	90.3	66.6	60.7
85°	29.6	31.1	44.4	45.9	45.9	42.9	56.2	62.2	60.7	41.4	37.0
87.5°	8.9	8.9	11.8	11.8	13.3	14.8	22.2	26.6	29.6	20.7	19.2
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°	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3	1511.3
2.5°	1535.0	1512.8	1514.3	1520.2	1501.0	1508.4	1530.6	1514.3	1509.9	1501.0	1496.5
5°	1527.6	1551.3	1542.4	1545.4	1541.0	1520.2	1517.3	1530.6	1538.0	1524.7	1551.3
7.5°	1579.4	1569.1	1557.2	1561.7	1551.3	1569.1	1580.9	1554.3	1567.6	1560.2	1545.4
10°	1609.0	1589.8	1598.7	1595.7	1588.3	1606.1	1594.2	1591.3	1579.4	1563.2	1586.8
12.5°	1619.4	1641.6	1656.4	1631.2	1635.7	1626.8	1619.4	1619.4	1606.1	1601.6	1606.1
15°	1665.3	1684.5	1678.6	1697.9	1672.7	1681.6	1690.5	1668.3	1680.1	1647.5	1672.7
17.5°	1749.7	1733.4	1754.1	1728.9	1737.8	1755.6	1727.5	1727.5	1736.3	1718.6	1696.4
20°	1803.0	1795.6	1788.2	1789.6	1774.8	1791.1	1782.2	1777.8	1764.5	1770.4	1782.2
22.5°	1853.3	1842.9	1845.9	1850.3	1860.7	1853.3	1848.8	1853.3	1820.7	1850.3	1808.9
25°	1915.5	1943.6	1934.7	1953.9	1924.3	1943.6	1942.1	1914.0	1931.7	1919.9	1911.0
27.5°	2019.1	2004.3	2017.6	1993.9	2014.6	2016.1	1998.4	2045.7	2025.0	2022.0	2016.1
30°	2152.3	2141.9	2133.1	2119.7	2136.0	2122.7	2137.5	2141.9	2122.7	2107.9	2079.8
32.5°	2227.8	2255.9	2266.3	2233.7	2235.2	2242.6	2229.3	2216.0	2227.8	2232.2	2227.8
35°	2334.4	2361.0	2366.9	2341.8	2328.5	2365.5	2338.8	2383.2	2344.7	2346.2	2306.2
37.5°	2458.7	2466.1	2516.4	2488.3	2476.5	2458.7	2507.6	2501.6	2510.5	2439.5	2475.0
40°	2599.3	2626.0	2654.1	2583.1	2581.6	2597.9	2594.9	2628.9	2612.7	2602.3	2577.1
42.5°	2753.3	2809.5	2814.0	2766.6	2737.0	2734.0	2748.8	2824.3	2825.8	2757.7	2728.1
45°	2957.6	3019.7	3003.4	2911.7	2879.1	2874.7	2947.2	2979.8	3007.9	2981.2	2956.1
47.5°	3212.2	3253.6	3241.8	3157.4	3052.3	3081.9	3153.0	3255.1	3225.5	3190.0	3160.4
50°	3484.5	3533.4	3508.2	3423.8	3323.2	3323.2	3410.5	3540.8	3531.9	3462.3	3435.7
52.5°	3786.5	3857.6	3915.3	3795.4	3711.0	3724.3	3862.0	3909.4	3887.2	3838.3	3816.1
55°	4011.5	4147.7	4266.1	4272.0	4276.5	4275.0	4310.5	4357.9	4199.5	4121.0	4041.1
57.5°	3956.7	4214.3	4619.9	4895.2	4976.6	5019.6	5007.7	4788.6	4414.1	4156.6	4183.2
60°	3565.9	3986.3	4640.6	5524.3	6116.4	6057.2	5841.1	4975.2	4295.7	3860.5	3805.8
62.5°	2845.1	3351.3	4292.8	5702.0	7333.2	7315.5	6184.5	4544.4	3579.3	3028.6	2994.6
64°	2143.4	2676.3	3829.4	5656.1	7759.5	7777.3	6097.2	4014.5	2800.7	2143.4	2091.6
65°	1640.1	2134.5	3375.0	5561.3	7667.8	7678.1	5854.4	3466.8	2128.6	1521.7	1465.5
67.5°	652.8	908.9	1831.1	4217.3	6584.2	6556.1	4177.3	1677.1	814.1	529.9	519.6
70°	278.3	346.4	642.4	1998.4	4408.2	4326.8	1798.5	544.7	302.0	253.1	251.6
72.5°	191.0	211.7	275.3	617.3	1832.6	1789.6	512.2	253.1	205.8	189.5	189.5
75°	153.9	168.7	199.8	259.0	485.5	467.8	241.3	186.5	164.3	152.5	151.0
77.5°	119.9	134.7	156.9	179.1	222.0	220.6	161.3	140.6	127.3	118.4	115.5
80°	94.7	109.5	124.3	127.3	145.1	142.1	109.5	111.0	103.6	85.9	84.4
82.5°	65.1	88.8	99.2	90.3	85.9	85.9	78.5	78.5	72.5	53.3	48.8
85°	40.0	59.2	62.2	53.3	40.0	40.0	42.9	41.4	38.5	28.1	26.6
87.5°	20.7	28.1	25.2	20.7	13.3	13.3	11.8	8.9	8.9	7.4	7.4
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)