

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: P478778

Luminaire Tested: **IFLD-S-SA2D-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

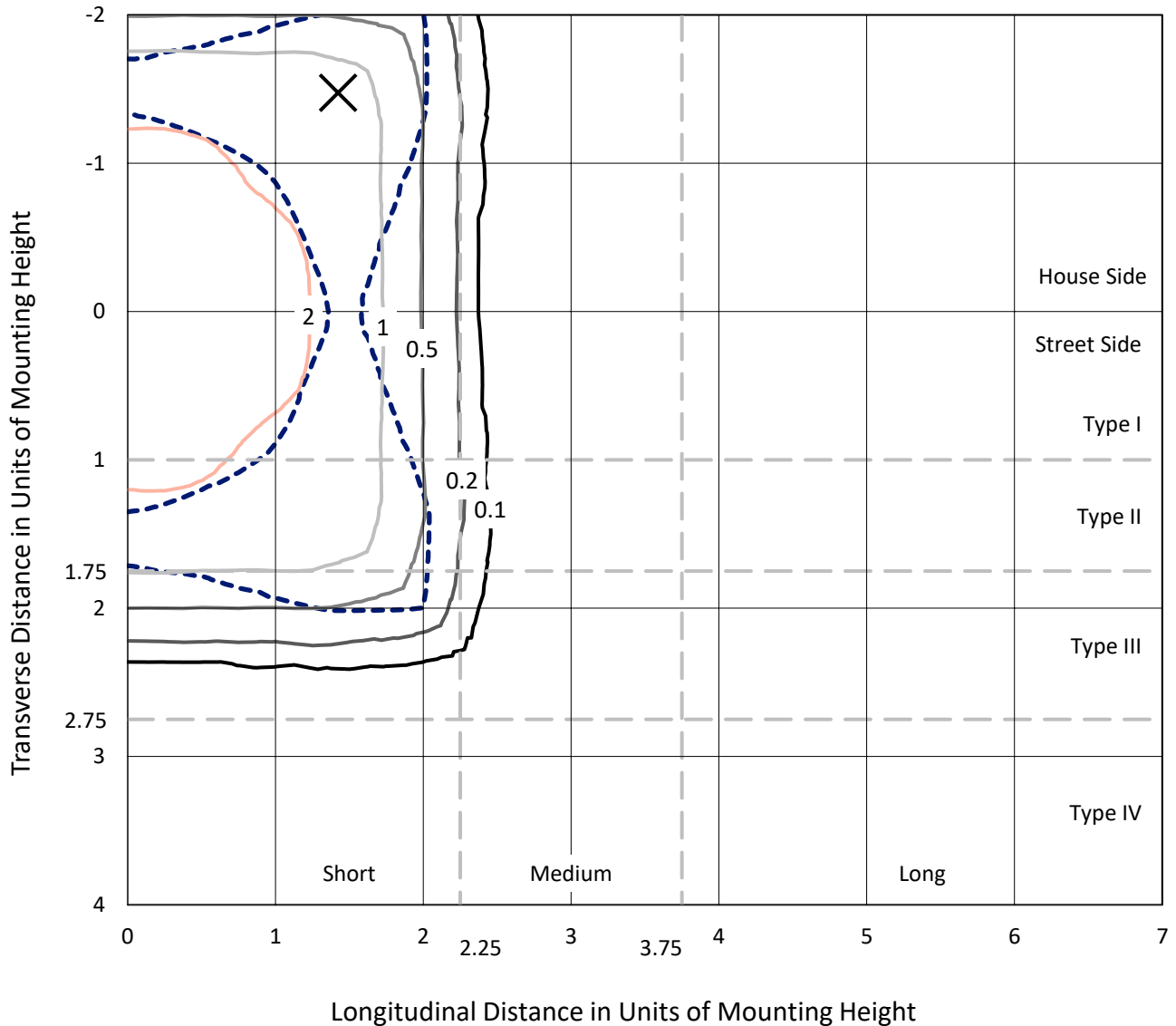
Lumens per Lamp: N/A
Luminaire Lumens: 11489.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 123.9
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

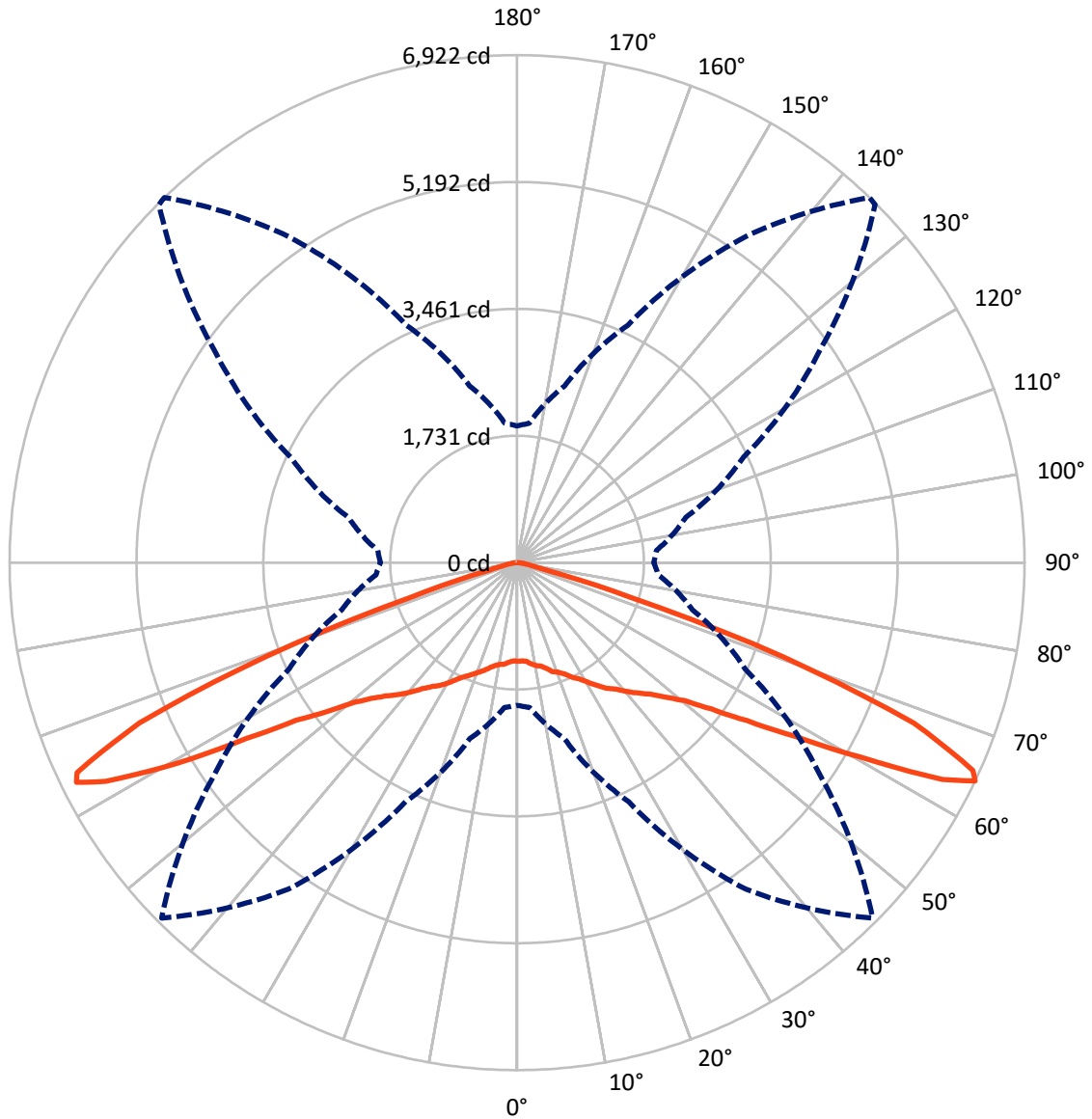
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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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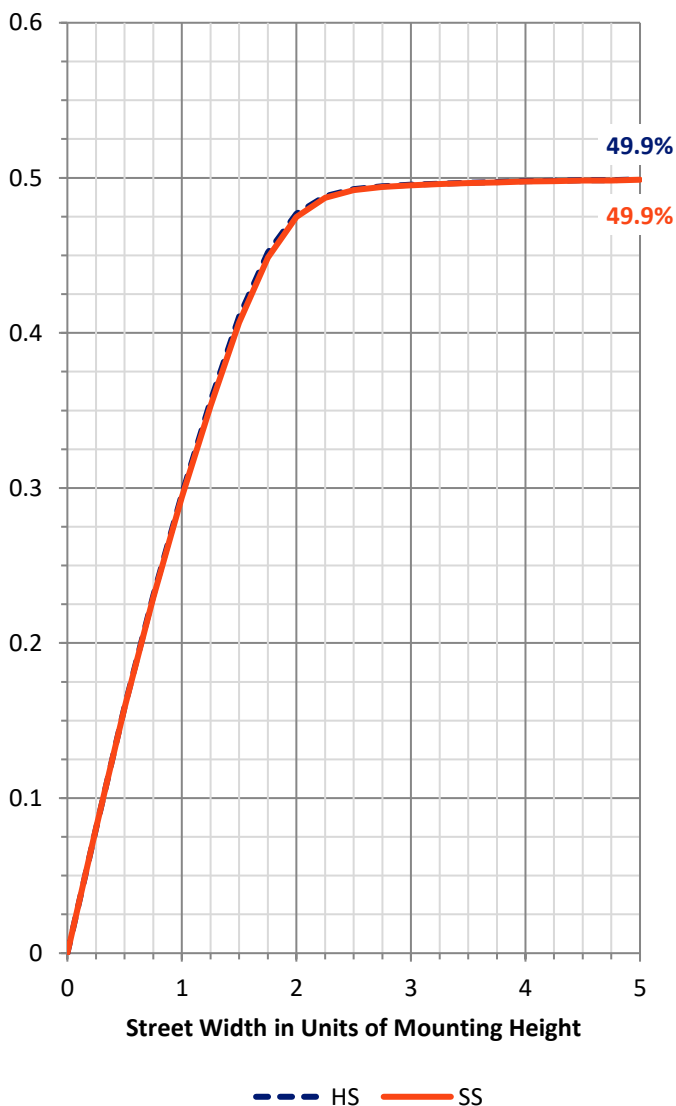
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5750.4	0.0	5750.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5739.4	0.0	5739.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	11489.8	0.0	11489.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.2
10°-20°	426.0	3.7
20°-30°	800.6	7.0
30°-40°	1320.4	11.5
40°-50°	2065.0	18.0
50°-60°	3336.6	29.0
60°-70°	3004.4	26.1
70°-80°	355.9	3.1
80°-90°	48.7	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°	11489.8	100.0
0°-180°	11489.8	100.0

Coefficient of Utilization



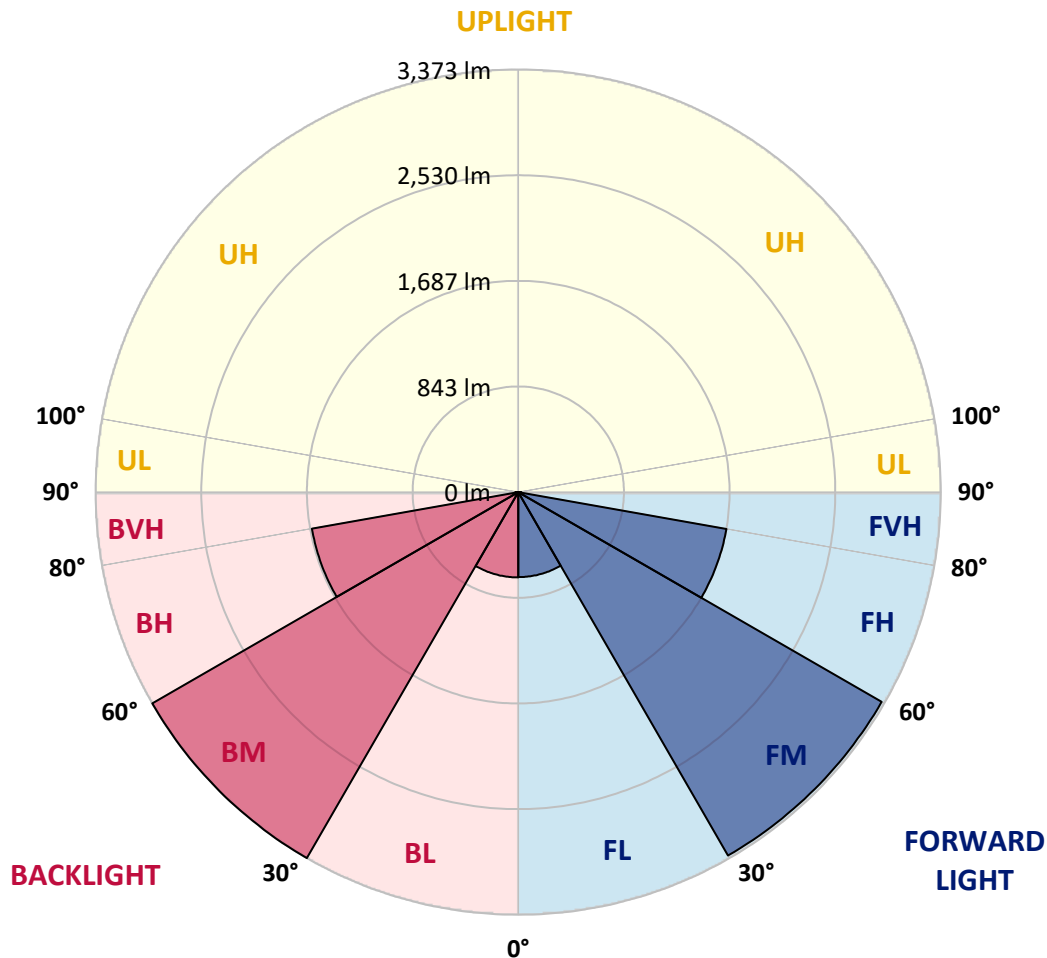
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.1	5.9			
FM (30°-60°)	3348.9	29.1			
FH (60°-80°)	1687.4	14.7			G1/1800
FVH (80°-90°)	25.0	0.2			G1/100
BL (0°-30°)	680.7	5.9	B2/1000		
BM (30°-60°)	3373.1	29.4	B3/5000		
BH (60°-80°)	1672.8	14.6	B3/2500		G1/1800
BVH (80°-90°)	23.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1329.4	1332.0	1355.8	1346.5	1354.4	1340.0	1350.5	1372.9	1346.5	1366.3	1372.9
5°	1343.9	1347.9	1347.9	1357.1	1362.3	1359.7	1366.3	1357.1	1382.1	1371.6	1387.4
7.5°	1396.6	1390.0	1379.5	1387.4	1388.7	1395.3	1401.9	1413.7	1409.8	1400.6	1416.4
10°	1405.8	1400.6	1416.4	1417.7	1411.1	1405.8	1412.4	1412.4	1424.3	1426.9	1426.9
12.5°	1421.6	1426.9	1425.6	1436.1	1437.4	1433.5	1444.0	1463.8	1458.5	1462.5	1453.3
15°	1482.2	1475.7	1474.3	1484.9	1502.0	1477.0	1495.4	1494.1	1488.8	1496.7	1475.7
17.5°	1534.9	1513.9	1523.1	1540.2	1533.6	1538.9	1562.6	1541.5	1546.8	1537.6	1531.0
20°	1581.1	1563.9	1565.3	1571.8	1571.8	1587.7	1596.9	1589.0	1583.7	1582.4	1585.0
22.5°	1632.4	1612.7	1614.0	1641.7	1650.9	1645.6	1639.0	1652.2	1654.8	1644.3	1656.2
25°	1670.7	1691.7	1698.3	1711.5	1691.7	1706.2	1701.0	1726.0	1741.8	1720.7	1735.2
27.5°	1770.8	1761.6	1778.7	1777.4	1793.2	1778.7	1787.9	1795.8	1802.4	1803.7	1797.1
30°	1860.4	1864.3	1847.2	1893.3	1856.4	1880.1	1896.0	1899.9	1907.8	1907.8	1888.1
32.5°	1955.2	1947.3	1975.0	1964.5	1957.9	1976.3	1959.2	2013.2	1981.6	2000.0	1977.6
35°	2062.0	2062.0	2072.5	2101.5	2062.0	2050.1	2081.7	2104.1	2104.1	2071.2	2079.1
37.5°	2181.9	2171.3	2184.5	2221.4	2191.1	2151.6	2209.5	2218.8	2212.2	2202.9	2187.1
40°	2266.2	2263.6	2289.9	2338.7	2295.2	2287.3	2297.8	2322.8	2330.8	2340.0	2318.9
42.5°	2408.5	2420.3	2496.8	2484.9	2449.3	2421.7	2419.0	2512.6	2490.2	2466.5	2454.6
45°	2619.3	2608.8	2648.3	2649.6	2603.5	2542.9	2556.1	2641.7	2679.9	2627.2	2647.0
47.5°	2786.6	2791.9	2819.6	2876.2	2769.5	2706.3	2755.0	2893.3	2881.5	2861.7	2880.2
50°	3010.6	3034.3	3121.3	3101.5	3006.7	2928.9	3035.6	3166.1	3180.6	3108.1	3094.9
52.5°	3320.2	3357.1	3404.6	3420.4	3329.5	3301.8	3308.4	3470.4	3434.9	3365.0	3320.2
55°	3591.6	3608.8	3695.7	3826.2	3819.6	3686.5	3762.9	3823.5	3678.6	3535.0	3546.9
57.5°	3707.6	3715.5	3957.9	4218.8	4374.3	4404.6	4317.6	4113.4	3768.2	3491.5	3474.4
60°	3419.0	3494.1	3786.6	4375.6	5085.8	5436.2	4857.8	4146.3	3558.7	3222.7	3197.7
62.5°	2732.6	2736.6	3171.3	4064.6	5528.5	6446.8	5064.7	3836.7	3000.1	2619.3	2519.2
64°	1946.0	1982.9	2482.3	3598.2	5436.2	6857.9	5039.6	3432.2	2473.0	1932.8	1863.0
65°	1396.6	1448.0	1930.2	3123.9	5220.1	6809.1	4964.5	3084.4	2000.0	1475.7	1404.5
67.5°	513.8	534.9	757.6	1562.6	3748.4	5802.5	3934.2	1695.7	878.8	625.8	562.6
70°	238.5	239.8	280.6	516.5	1639.0	3880.2	1877.5	636.4	330.7	262.2	243.7
72.5°	175.2	179.2	196.3	238.5	482.2	1643.0	616.6	260.9	193.7	171.3	167.3
75°	142.3	144.9	150.2	172.6	222.7	440.1	250.3	180.5	154.2	138.3	133.1
77.5°	109.4	109.4	121.2	131.8	147.6	205.5	166.0	143.6	125.2	109.4	105.4
80°	79.1	80.4	94.9	102.8	100.1	135.7	119.9	118.6	102.8	85.6	79.1
82.5°	46.1	50.1	68.5	73.8	71.1	80.4	87.0	92.2	80.4	59.3	54.0
85°	26.4	27.7	39.5	40.8	40.8	38.2	50.1	55.3	54.0	36.9	32.9
87.5°	7.9	7.9	10.5	10.5	11.9	13.2	19.8	23.7	26.4	18.4	17.1
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°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1366.3	1346.5	1347.9	1353.1	1336.0	1342.6	1362.3	1347.9	1343.9	1336.0	1332.0
5°	1359.7	1380.8	1372.9	1375.5	1371.6	1353.1	1350.5	1362.3	1368.9	1357.1	1380.8
7.5°	1405.8	1396.6	1386.1	1390.0	1380.8	1396.6	1407.1	1383.4	1395.3	1388.7	1375.5
10°	1432.2	1415.1	1423.0	1420.3	1413.7	1429.5	1419.0	1416.4	1405.8	1391.3	1412.4
12.5°	1441.4	1461.2	1474.3	1451.9	1455.9	1448.0	1441.4	1441.4	1429.5	1425.6	1429.5
15°	1482.2	1499.4	1494.1	1511.2	1488.8	1496.7	1504.6	1484.9	1495.4	1466.4	1488.8
17.5°	1557.3	1542.9	1561.3	1538.9	1546.8	1562.6	1537.6	1537.6	1545.5	1529.7	1509.9
20°	1604.8	1598.2	1591.6	1592.9	1579.7	1594.2	1586.3	1582.4	1570.5	1575.8	1586.3
22.5°	1649.6	1640.4	1643.0	1646.9	1656.2	1649.6	1645.6	1649.6	1620.6	1646.9	1610.0
25°	1704.9	1729.9	1722.0	1739.2	1712.8	1729.9	1728.6	1703.6	1719.4	1708.9	1701.0
27.5°	1797.1	1784.0	1795.8	1774.7	1793.2	1794.5	1778.7	1820.9	1802.4	1799.8	1794.5
30°	1915.7	1906.5	1898.6	1886.7	1901.2	1889.4	1902.5	1906.5	1889.4	1876.2	1851.2
32.5°	1982.9	2007.9	2017.2	1988.2	1989.5	1996.1	1984.2	1972.4	1982.9	1986.9	1982.9
35°	2077.8	2101.5	2106.8	2084.4	2072.5	2105.4	2081.7	2121.3	2087.0	2088.3	2052.7
37.5°	2188.5	2195.0	2239.8	2214.8	2204.3	2188.5	2231.9	2226.7	2234.6	2171.3	2202.9
40°	2313.6	2337.3	2362.4	2299.1	2297.8	2312.3	2309.7	2340.0	2325.5	2316.3	2293.9
42.5°	2450.6	2500.7	2504.7	2462.5	2436.2	2433.5	2446.7	2513.9	2515.2	2454.6	2428.2
45°	2632.5	2687.8	2673.3	2591.6	2562.6	2558.7	2623.2	2652.2	2677.3	2653.6	2631.2
47.5°	2859.1	2896.0	2885.4	2810.3	2716.8	2743.1	2806.4	2897.3	2870.9	2839.3	2813.0
50°	3101.5	3145.0	3122.6	3047.5	2957.9	2957.9	3035.6	3151.6	3143.7	3081.8	3058.0
52.5°	3370.3	3433.5	3484.9	3378.2	3303.1	3315.0	3437.5	3479.7	3459.9	3416.4	3396.7
55°	3570.6	3691.8	3797.2	3802.5	3806.4	3805.1	3836.7	3878.9	3737.9	3668.1	3596.9
57.5°	3521.8	3751.1	4112.1	4357.1	4429.6	4467.8	4457.3	4262.3	3928.9	3699.7	3723.4
60°	3174.0	3548.2	4130.5	4917.1	5444.1	5391.4	5199.1	4428.3	3823.5	3436.2	3387.4
62.5°	2532.3	2982.9	3820.9	5075.2	6527.2	6511.3	5504.7	4044.9	3185.8	2695.7	2665.4
64°	1907.8	2382.1	3408.5	5034.4	6906.6	6922.4	5427.0	3573.2	2492.8	1907.8	1861.7
65°	1459.8	1899.9	3004.0	4950.0	6824.9	6834.1	5210.9	3085.7	1894.6	1354.4	1304.4
67.5°	581.0	809.0	1629.8	3753.7	5860.5	5835.4	3718.1	1492.8	724.7	471.7	462.5
70°	247.7	308.3	571.8	1778.7	3923.7	3851.2	1600.8	484.9	268.8	225.3	224.0
72.5°	170.0	188.4	245.1	549.4	1631.1	1592.9	455.9	225.3	183.1	168.6	168.6
75°	137.0	150.2	177.9	230.6	432.2	416.3	214.8	166.0	146.2	135.7	134.4
77.5°	106.7	119.9	139.7	159.4	197.6	196.3	143.6	125.2	113.3	105.4	102.8
80°	84.3	97.5	110.7	113.3	129.1	126.5	97.5	98.8	92.2	76.4	75.1
82.5°	58.0	79.1	88.3	80.4	76.4	76.4	69.8	69.8	64.6	47.4	43.5
85°	35.6	52.7	55.3	47.4	35.6	35.6	38.2	36.9	34.3	25.0	23.7
87.5°	18.4	25.0	22.4	18.4	11.9	11.9	10.5	7.9	7.9	6.6	6.6
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)