

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: P478391

Luminaire Tested: **IFLD-S-SA3B-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

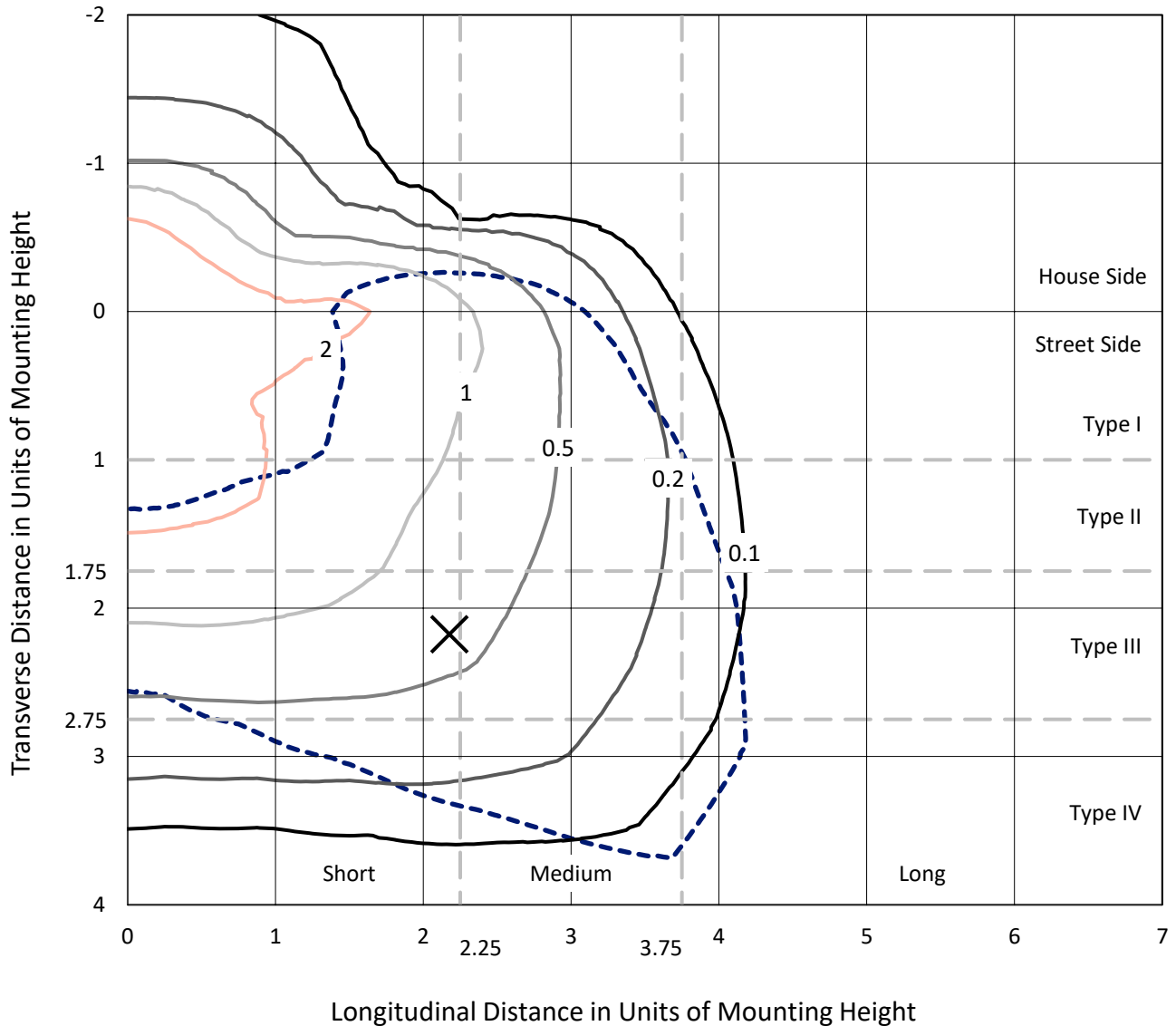
Lumens per Lamp: N/A
Luminaire Lumens: 12669 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

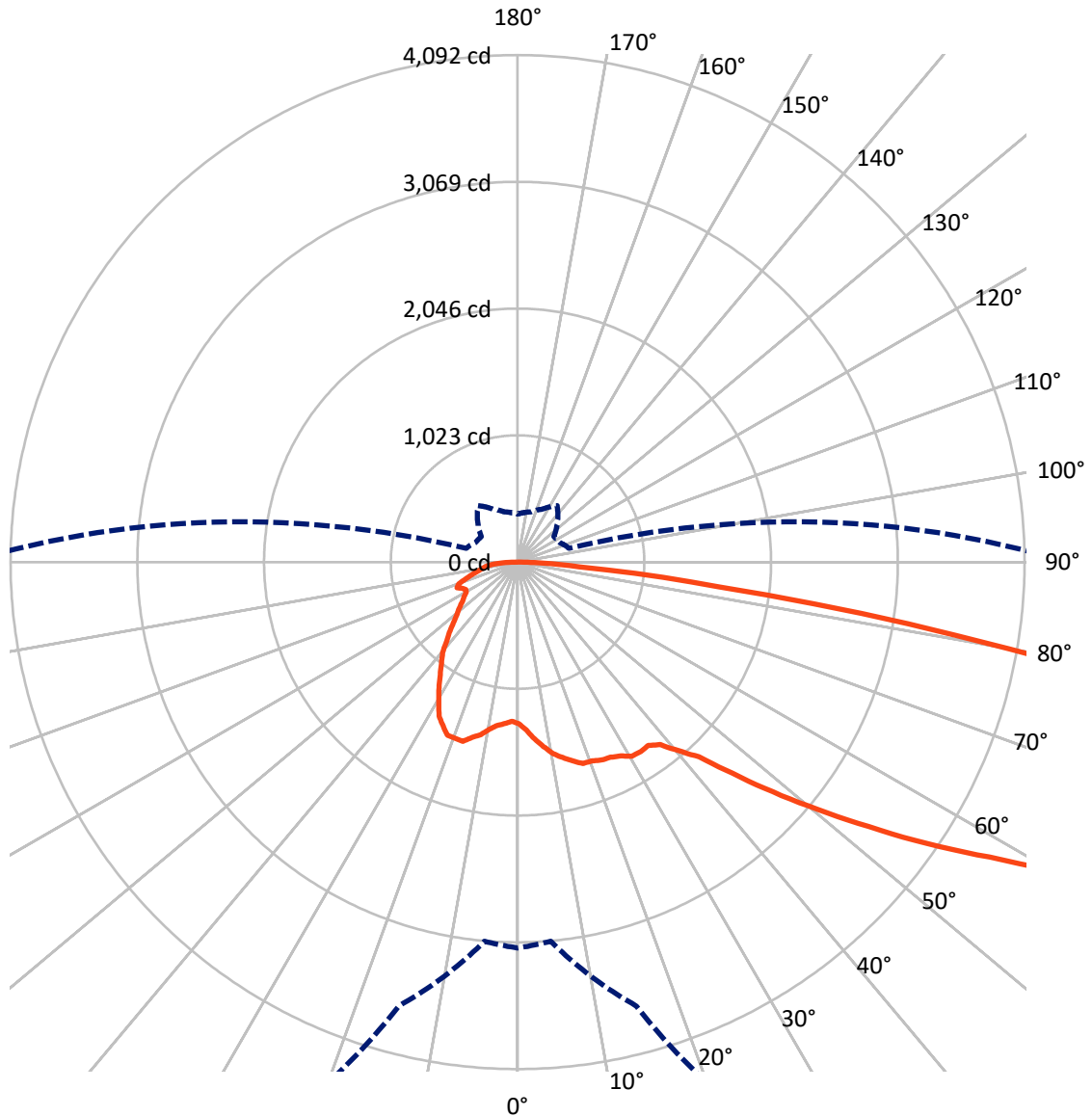
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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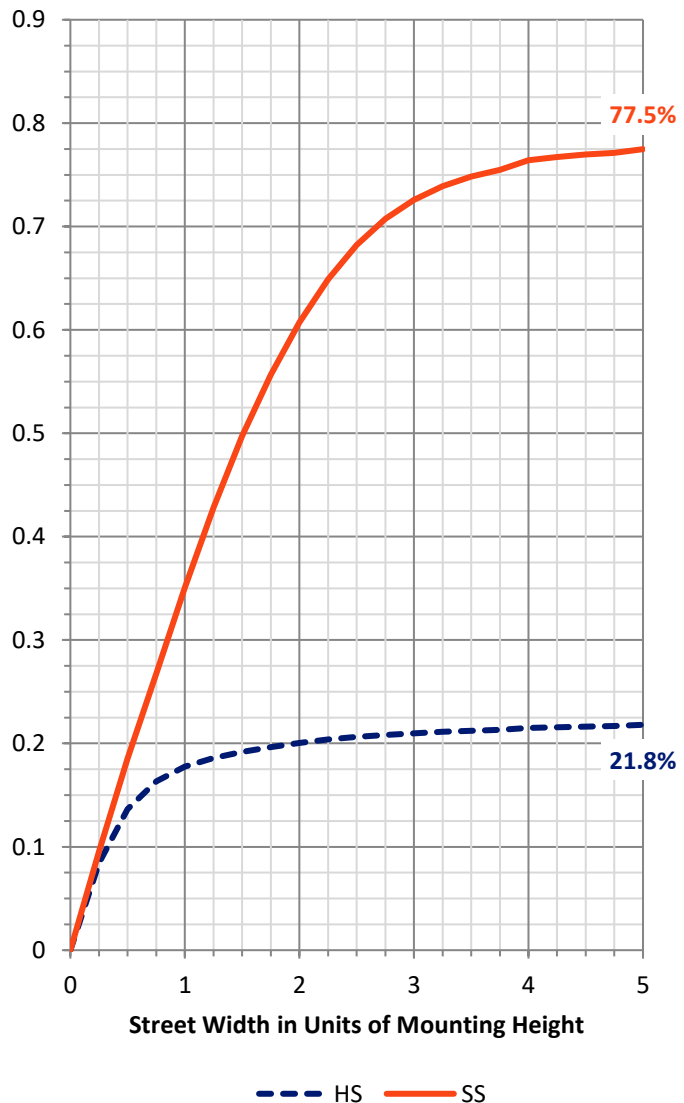
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2820.2	0.0	2820.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9848.8	0.0	9848.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	12669.0	0.0	12669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.1
10°-20°	444.2	3.5
20°-30°	750.1	5.9
30°-40°	1038.0	8.2
40°-50°	1484.8	11.7
50°-60°	2394.8	18.9
60°-70°	3531.9	27.9
70°-80°	2564.8	20.2
80°-90°	327.0	2.6
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°	12669.0	100.0
0°-180°	12669.0	100.0

Coefficient of Utilization



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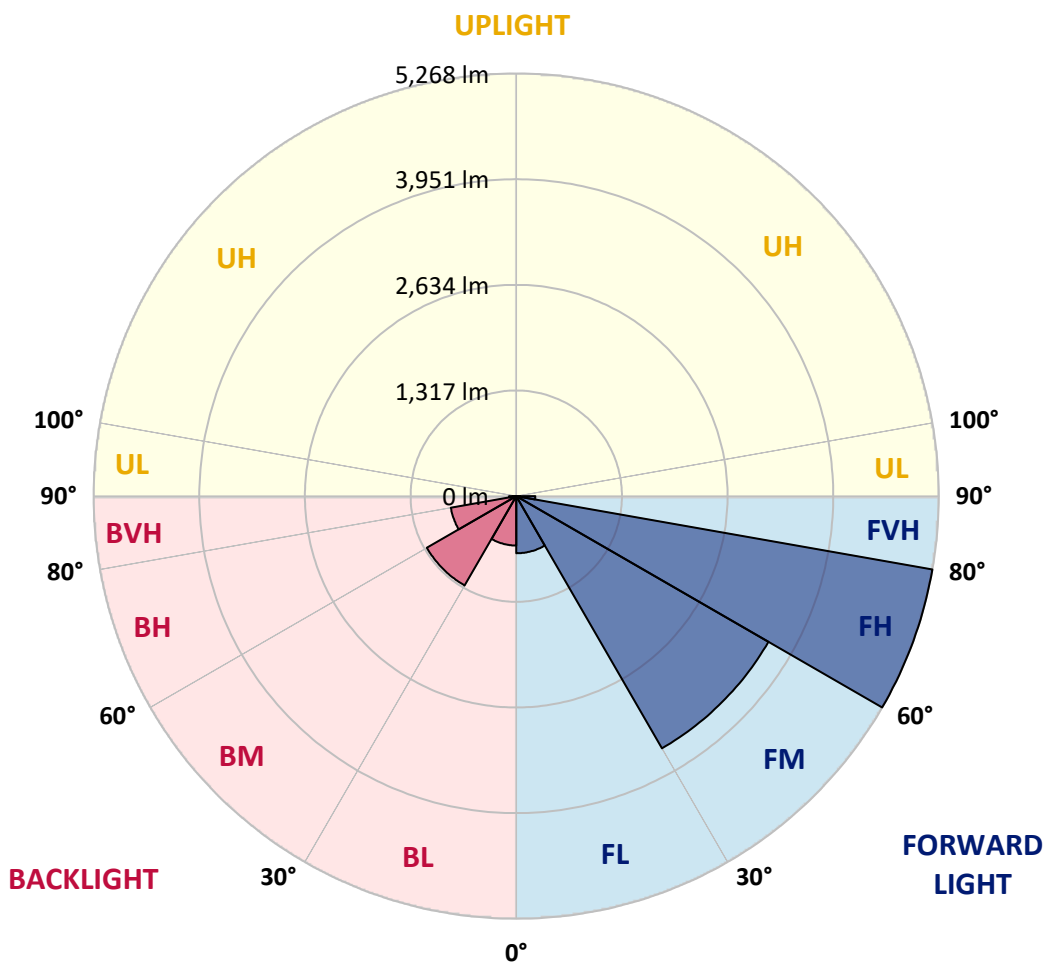
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.0	5.6			
FM (30°-60°)	3630.5	28.7			
FH (60°-80°)	5268.3	41.6			G3/7500
FVH (80°-90°)	238.0	1.9			G3/500
BL (0°-30°)	615.8	4.9	B2/1000		
BM (30°-60°)	1287.1	10.2	B2/2500		
BH (60°-80°)	828.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	89.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1374.4	1382.5	1374.4	1373.0	1359.3	1349.8	1358.0	1345.7	1332.0	1326.5	1314.2
5°	1500.0	1501.4	1486.4	1487.7	1459.1	1429.0	1434.5	1397.6	1358.0	1342.9	1318.3
7.5°	1628.5	1613.4	1591.6	1584.7	1539.7	1506.9	1502.8	1470.0	1408.5	1374.4	1340.2
10°	1711.8	1717.3	1681.7	1651.7	1613.4	1573.8	1572.4	1511.0	1475.4	1424.9	1381.2
12.5°	1785.6	1786.9	1756.9	1709.1	1661.2	1612.1	1618.9	1591.6	1531.5	1483.6	1439.9
15°	1842.9	1834.7	1802.0	1758.2	1707.7	1669.4	1665.3	1642.1	1591.6	1552.0	1479.5
17.5°	1859.3	1855.2	1822.4	1776.0	1726.8	1698.1	1709.1	1670.8	1650.3	1614.8	1545.1
20°	1827.9	1818.4	1812.9	1761.0	1725.5	1722.7	1713.2	1721.4	1687.2	1654.4	1603.9
22.5°	1770.5	1766.4	1763.7	1722.7	1706.3	1718.6	1735.0	1747.3	1741.8	1710.4	1653.0
25°	1711.8	1730.9	1713.2	1694.0	1717.3	1748.7	1744.6	1784.2	1784.2	1774.6	1726.8
27.5°	1752.8	1740.5	1726.8	1717.3	1725.5	1774.6	1771.9	1819.7	1837.5	1819.7	1765.1
30°	1855.2	1842.9	1803.3	1761.0	1750.0	1803.3	1817.0	1859.3	1867.5	1823.8	1777.4
32.5°	2047.9	2041.0	1978.2	1853.9	1786.9	1817.0	1823.8	1871.6	1864.8	1837.5	1818.4
35°	2333.4	2310.2	2222.7	2012.3	1864.8	1834.7	1817.0	1855.2	1881.2	1867.5	1849.8
37.5°	2646.2	2620.3	2512.4	2246.0	2005.5	1882.6	1868.9	1900.3	1930.4	1923.5	1886.7
40°	2945.4	2945.4	2848.4	2538.3	2214.5	1998.7	2001.4	1965.9	1993.2	1980.9	1987.8
42.5°	3240.5	3229.6	3190.0	2881.2	2438.6	2192.7	2149.0	2060.2	2109.3	2105.2	2114.8
45°	3539.7	3531.5	3520.6	3200.9	2759.6	2455.0	2431.8	2271.9	2317.0	2297.9	2338.9
47.5°	3778.8	3788.3	3788.3	3557.5	3102.5	2804.7	2770.6	2517.8	2603.9	2613.5	2623.0
50°	3982.3	3986.4	3982.3	3897.6	3485.1	3205.0	3135.3	2878.5	2964.6	3039.7	3127.1
52.5°	4263.8	4269.2	4250.1	4217.3	4004.2	3625.8	3547.9	3262.4	3438.6	3517.8	3675.0
55°	4610.8	4569.8	4534.3	4558.9	4502.8	4088.9	4008.3	3658.6	3923.6	4028.8	4343.0
57.5°	4675.0	4710.5	4800.7	4996.0	5076.6	4539.7	4493.3	4144.9	4471.4	4563.0	5087.6
60°	4901.8	4843.0	5064.3	5487.8	5578.0	5127.2	5079.4	4677.7	5016.5	5112.1	5774.7
62.5°	5050.7	5047.9	5375.8	5878.6	6083.5	5736.5	5639.5	5370.4	5605.3	5698.2	6523.4
65°	5007.0	5046.6	5628.6	6108.1	6505.6	6429.1	6373.1	5966.0	6276.1	6267.9	7011.1
67.5°	4608.0	4720.1	5468.7	6273.4	7134.1	7273.4	7255.6	6803.4	6821.2	6647.7	7228.3
70°	4054.7	4016.5	4792.5	6101.2	7448.3	8274.8	8270.7	7426.4	7311.7	6731.0	6605.4
72°	3114.8	3072.5	3710.5	5239.2	7283.0	8675.1	8798.0	7858.1	7306.2	6385.4	5456.4
72.5°	2827.9	2791.1	3426.3	4931.8	7099.9	8778.9	8721.5	7874.5	7248.8	6222.8	5097.1
75°	1301.9	1259.6	1711.8	3019.2	5538.4	7778.9	7974.2	7369.0	6330.8	4953.7	3053.4
77.5°	388.0	375.7	550.6	1218.6	3218.7	5731.0	5806.2	5560.2	4419.5	2713.2	1132.5
80°	215.9	217.2	284.2	456.3	1415.3	3312.9	3583.4	3434.5	2168.1	896.2	377.1
82.5°	120.2	127.1	177.6	270.5	650.3	1520.5	1636.7	1577.9	784.2	420.8	206.3
85°	62.8	65.6	92.9	144.8	368.9	480.9	494.5	530.1	407.1	286.9	110.7
87.5°	24.6	24.6	34.2	60.1	136.6	148.9	133.9	162.6	233.6	185.8	54.6
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°	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7	1304.7
2.5°	1325.2	1314.2	1312.9	1295.1	1300.6	1285.6	1286.9	1284.2	1285.6	1282.8	1276.0
5°	1318.3	1310.1	1286.9	1301.9	1288.3	1307.4	1322.4	1317.0	1321.1	1319.7	1321.1
7.5°	1327.9	1317.0	1314.2	1306.0	1318.3	1326.5	1338.8	1373.0	1370.3	1374.4	1382.5
10°	1356.6	1344.3	1336.1	1348.4	1341.6	1367.5	1381.2	1398.9	1430.4	1431.7	1415.3
12.5°	1412.6	1404.4	1388.0	1390.7	1414.0	1422.2	1430.4	1441.3	1461.8	1457.7	1472.7
15°	1476.8	1459.1	1449.5	1446.8	1452.2	1461.8	1460.4	1471.3	1482.3	1491.8	1487.7
17.5°	1523.3	1500.0	1502.8	1516.4	1515.1	1512.3	1494.6	1489.1	1494.6	1500.0	1497.3
20°	1571.1	1573.8	1553.3	1541.0	1535.6	1508.2	1494.6	1478.2	1461.8	1470.0	1482.3
22.5°	1631.2	1618.9	1588.8	1552.0	1524.6	1508.2	1465.9	1437.2	1437.2	1445.4	1441.3
25°	1699.5	1673.5	1621.6	1554.7	1520.5	1450.9	1420.8	1416.7	1405.8	1418.1	1423.5
27.5°	1752.8	1729.6	1658.5	1545.1	1450.9	1394.8	1377.1	1371.6	1389.4	1390.7	1412.6
30°	1774.6	1767.8	1664.0	1520.5	1379.8	1289.6	1278.7	1303.3	1322.4	1351.1	1352.5
32.5°	1803.3	1806.1	1672.2	1463.2	1286.9	1196.8	1180.4	1210.4	1265.1	1288.3	1306.0
35°	1851.1	1864.8	1665.3	1392.1	1188.6	1102.5	1099.8	1108.0	1161.2	1202.2	1225.4
37.5°	1934.5	1931.7	1664.0	1307.4	1110.7	1020.5	998.7	1001.4	1036.9	1071.1	1067.0
40°	2046.5	2035.6	1659.9	1196.8	1009.6	950.8	914.0	900.3	897.6	888.0	890.7
42.5°	2199.5	2177.7	1658.5	1084.7	918.1	855.2	829.3	793.7	767.8	718.6	721.3
45°	2412.6	2374.4	1623.0	979.5	827.9	776.0	736.4	710.4	654.4	592.9	592.9
47.5°	2741.9	2617.6	1624.4	863.4	740.5	698.1	670.8	625.7	565.6	516.4	510.9
50°	3226.9	2942.7	1577.9	771.9	669.4	640.7	612.0	560.1	502.7	468.6	472.7
52.5°	3852.6	3427.7	1576.5	689.9	613.4	592.9	561.5	515.0	472.7	450.8	442.6
55°	4598.5	4069.8	1625.7	623.0	556.0	545.1	531.4	493.2	452.2	433.1	431.7
57.5°	5362.2	4696.8	1705.0	575.2	506.8	515.0	505.5	475.4	442.6	420.8	418.0
60°	6041.1	5194.1	1545.1	517.8	463.1	480.9	494.5	468.6	450.8	449.5	439.9
62.5°	6553.4	5407.2	1174.9	474.1	439.9	472.7	509.6	526.0	517.8	528.7	530.1
65°	6740.6	5278.8	808.8	450.8	422.1	491.8	573.8	568.3	520.5	500.0	510.9
67.5°	6478.3	4758.3	599.7	423.5	409.8	531.4	610.7	542.4	470.0	467.2	459.0
70°	5571.2	4032.9	489.1	394.8	389.4	509.6	594.3	502.7	442.6	424.9	416.7
72°	4438.6	3140.8	429.0	374.3	356.6	454.9	556.0	471.3	419.4	397.6	388.0
72.5°	4052.0	2911.3	420.8	364.8	349.7	442.6	536.9	461.8	413.9	394.8	379.8
75°	2222.7	1490.5	370.2	334.7	295.1	382.5	497.3	433.1	390.7	363.4	360.7
77.5°	826.5	577.9	319.7	296.5	255.5	330.6	452.2	411.2	355.2	321.0	314.2
80°	316.9	304.7	260.9	250.0	214.5	289.6	416.7	368.9	301.9	267.8	256.8
82.5°	192.6	177.6	198.1	195.4	163.9	263.7	392.1	345.6	267.8	217.2	210.4
85°	105.2	105.2	138.0	132.5	114.8	210.4	296.5	229.5	169.4	139.3	142.1
87.5°	46.4	54.6	73.8	69.7	62.8	118.9	144.8	121.6	84.7	57.4	61.5
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)