

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: P478192

Luminaire Tested: **IFLD-S-SA2C-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478192
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

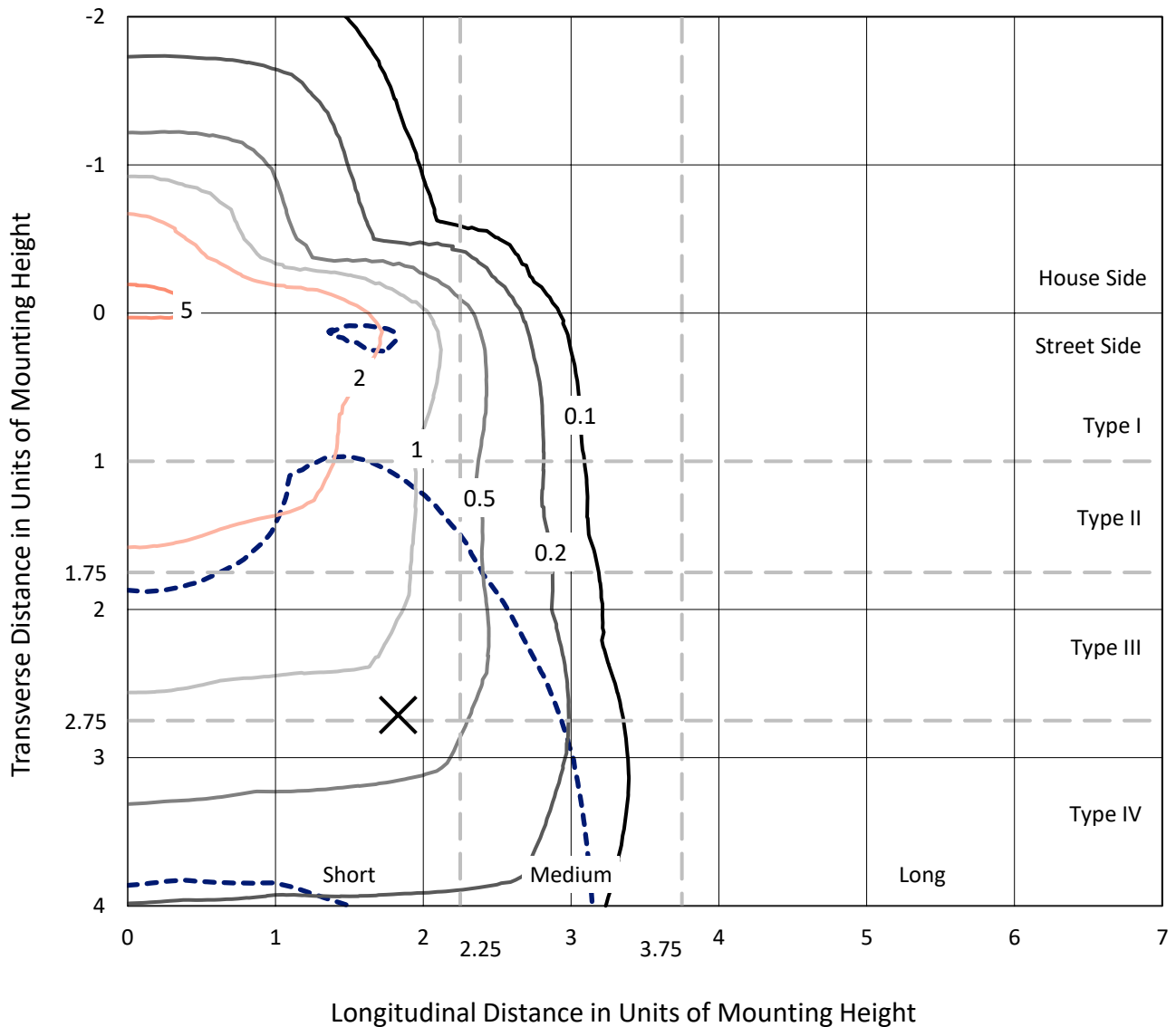
Lumens per Lamp: N/A
Luminaire Lumens: 14895 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

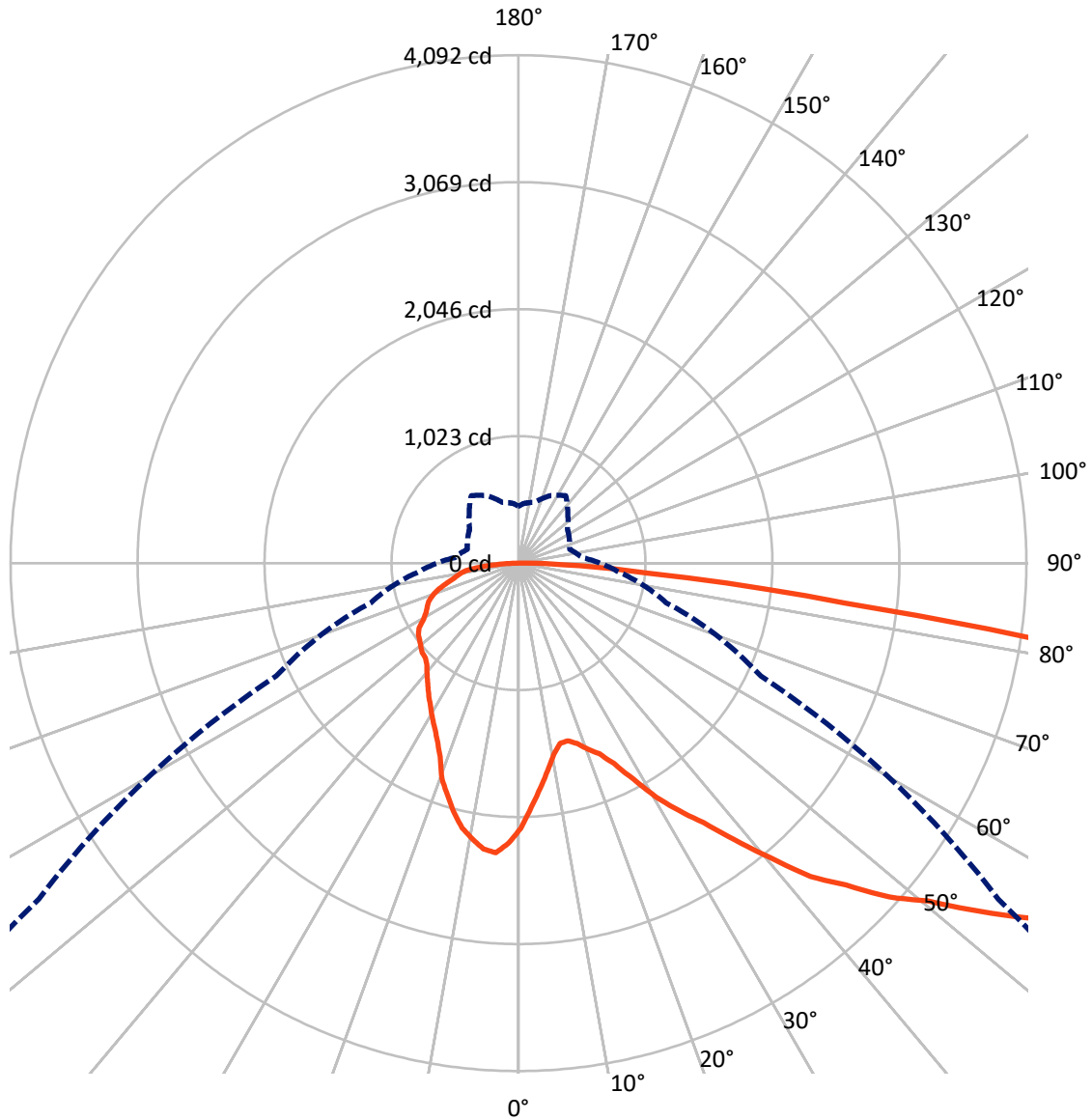
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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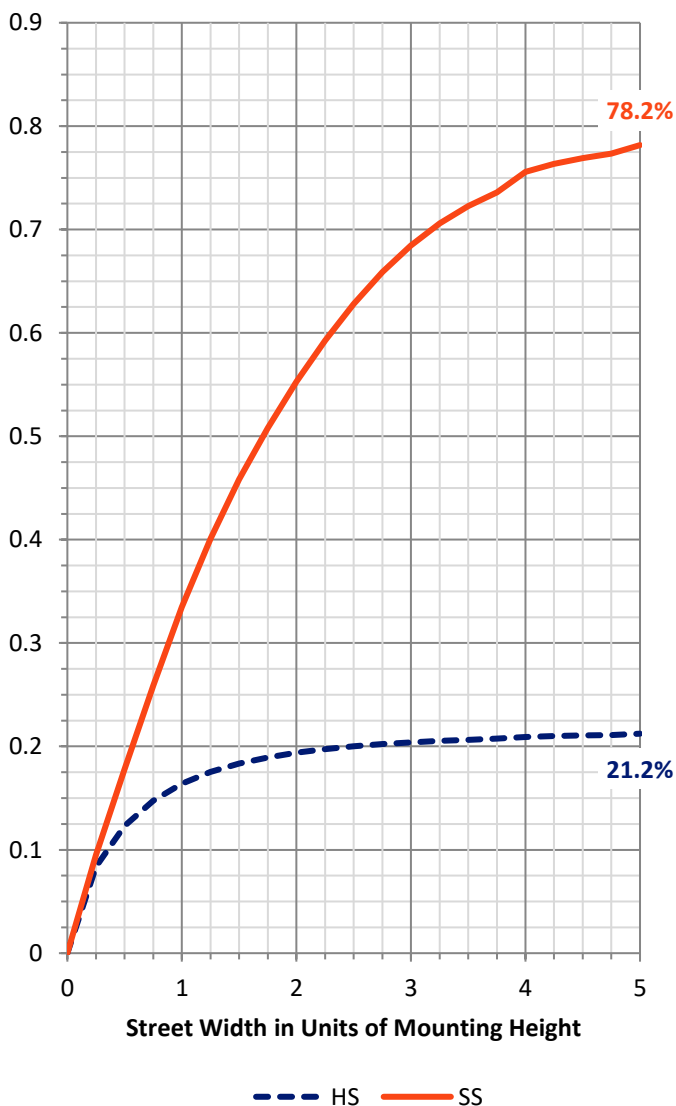
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3217.5	0.0	3217.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11677.5	0.0	11677.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	14895.0	0.0	14895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	1.3
10°-20°	551.6	3.7
20°-30°	907.8	6.1
30°-40°	1357.6	9.1
40°-50°	2012.6	13.5
50°-60°	2900.4	19.5
60°-70°	3701.3	24.8
70°-80°	2880.2	19.3
80°-90°	386.4	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°	14895.0	100.0
0°-180°	14895.0	100.0

Coefficient of Utilization



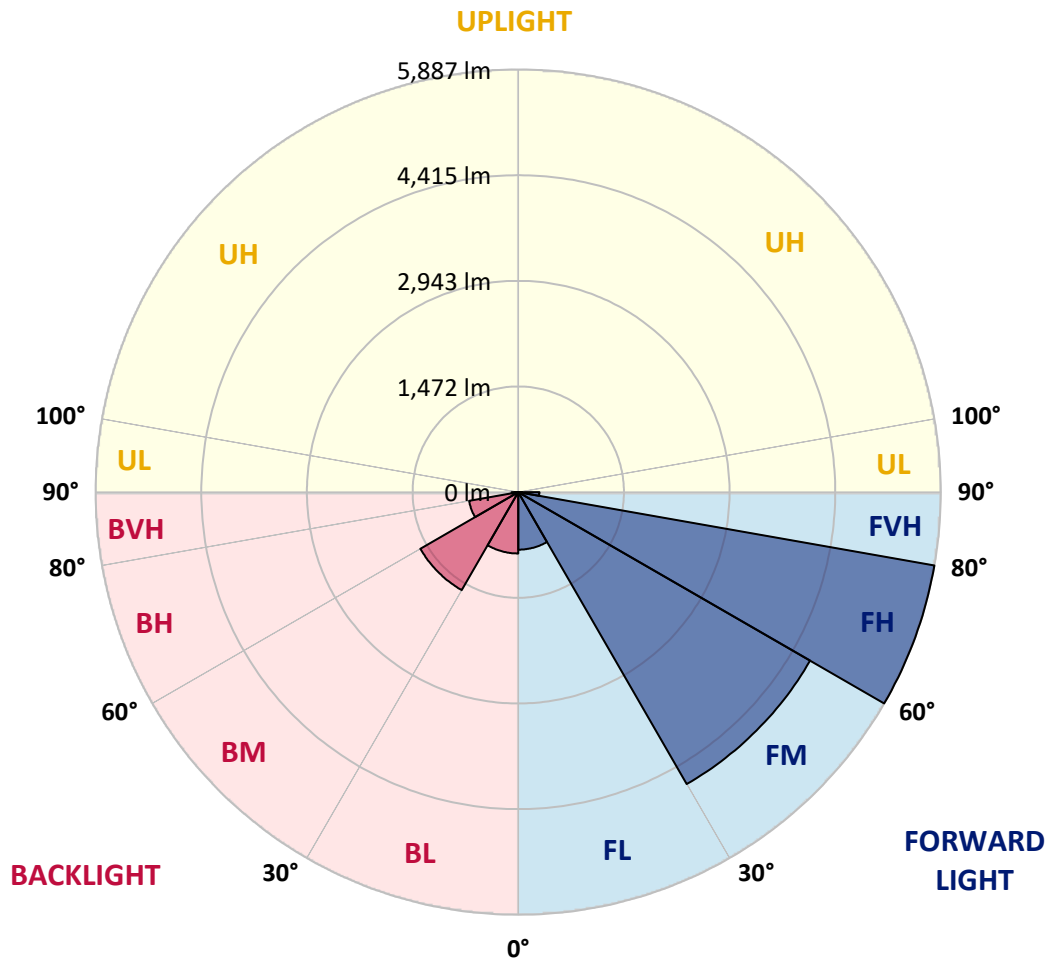
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.6	5.4			
FM (30°-60°)	4695.0	31.5			
FH (60°-80°)	5886.8	39.5			G3/7500
FVH (80°-90°)	294.1	2.0			G3/500
BL (0°-30°)	854.9	5.7	B2/1000		
BM (30°-60°)	1575.6	10.6	B2/2500		
BH (60°-80°)	694.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	92.3	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4
2.5°	1913.4	1919.7	1940.2	1944.9	1966.9	1954.3	1981.1	2028.3	2055.1	2094.5	2141.7
5°	1762.2	1735.4	1748.0	1796.8	1822.0	1828.3	1856.7	1937.0	1987.4	2045.7	2133.9
7.5°	1584.2	1579.5	1604.7	1636.2	1686.6	1691.3	1754.3	1825.2	1929.1	2058.3	2162.2
10°	1463.0	1483.5	1497.6	1530.7	1565.3	1565.3	1645.7	1768.5	1886.6	2011.0	2168.5
12.5°	1456.7	1444.1	1447.2	1464.6	1489.8	1521.3	1596.8	1707.1	1856.7	2001.6	2195.3
15°	1477.2	1481.9	1453.5	1475.6	1485.0	1496.1	1579.5	1703.9	1837.8	2034.6	2240.9
17.5°	1585.8	1559.1	1515.0	1494.5	1527.6	1527.6	1584.2	1681.9	1840.9	2052.0	2307.1
20°	1670.9	1670.9	1598.4	1576.4	1600.0	1595.3	1634.6	1707.1	1856.7	2086.6	2381.1
22.5°	1814.2	1834.6	1715.0	1669.3	1667.7	1680.3	1715.0	1776.4	1900.8	2135.4	2452.0
25°	2020.5	2025.2	1886.6	1839.4	1789.0	1809.4	1815.7	1877.2	1940.2	2192.1	2532.3
27.5°	2250.4	2247.2	2119.7	2001.6	1968.5	1973.2	1938.6	1979.5	1998.4	2209.4	2647.2
30°	2505.5	2477.2	2381.1	2214.2	2187.4	2157.5	2081.9	2080.3	2119.7	2307.1	2806.3
32.5°	2672.4	2636.2	2570.1	2450.4	2376.4	2379.5	2259.8	2258.3	2223.6	2414.2	2944.9
35°	2836.2	2781.1	2763.8	2640.9	2566.9	2574.8	2478.7	2466.1	2403.1	2576.4	3173.2
37.5°	3033.1	2984.2	3011.0	2918.1	2826.8	2789.0	2744.9	2729.1	2647.2	2804.7	3485.0
40°	3250.4	3234.6	3217.3	3171.6	3116.5	3119.7	3072.4	3056.7	2935.4	3080.3	3784.2
42.5°	3543.3	3483.5	3393.7	3423.6	3452.0	3481.9	3466.1	3425.2	3299.2	3360.6	4118.1
45°	3815.7	3737.0	3571.6	3581.1	3697.6	3721.2	3911.8	3907.1	3653.5	3716.5	4497.6
47.5°	4000.0	3963.8	3864.6	3853.5	4020.5	4018.9	4362.2	4362.2	4026.8	4070.9	4905.5
50°	4274.0	4179.5	4137.0	4192.1	4277.2	4335.4	4822.0	4852.0	4393.7	4440.9	5439.4
52.5°	4595.3	4477.2	4370.1	4511.8	4663.0	4700.8	5277.2	5264.6	4675.6	4870.9	6064.6
55°	4861.4	4801.6	4727.5	4809.4	5056.7	5103.9	5733.8	5617.3	4957.5	5226.8	6365.3
57.5°	5171.6	5207.9	5223.6	5203.1	5497.6	5571.6	6255.1	5921.2	5200.0	5466.1	6541.7
60°	5639.4	5661.4	5681.9	5730.7	6042.5	6146.4	6667.7	6302.3	5352.7	5604.7	6555.9
62.5°	6351.2	6266.1	6311.8	6480.3	6730.7	6848.8	7275.6	6570.1	5469.3	5688.2	6092.9
65°	7165.3	7050.4	7003.1	7220.5	7869.3	7774.8	8034.6	6770.1	5300.8	5376.4	5166.9
67.5°	7990.5	8003.1	7881.9	8318.1	9113.4	9113.4	8740.1	6866.1	4844.1	4357.5	3623.6
70°	8645.6	8685.0	8751.2	9596.8	10856.7	11047.2	9614.1	6472.4	3913.4	2900.8	1981.1
72.5°	8636.2	8518.1	8856.7	10414.1	12440.9	12281.9	9796.8	5118.1	2442.5	1420.5	908.7
73°	8442.5	8343.3	8713.4	10406.3	12505.5	12355.9	9663.0	4718.1	2154.3	1231.5	807.9
75°	6894.5	6714.9	7344.9	9425.2	11570.0	11685.0	8209.4	3077.2	1181.1	759.1	568.5
77.5°	3143.3	3222.0	4042.5	6322.8	8916.5	9051.9	5396.8	1330.7	647.2	532.3	418.9
80°	1009.4	1059.8	1573.2	3143.3	5589.0	5833.1	2494.5	604.7	461.4	407.9	313.4
82.5°	385.8	384.3	659.8	1307.1	2648.8	2804.7	911.8	368.5	343.3	300.8	222.0
85°	135.4	141.7	248.8	516.5	1042.5	1091.3	316.5	204.7	237.8	201.6	127.6
87.5°	47.2	48.8	88.2	187.4	359.1	379.5	88.2	81.9	118.1	116.5	64.6
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°	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4	2135.4
2.5°	2157.5	2171.6	2176.4	2233.1	2233.1	2233.1	2255.1	2255.1	2248.8	2233.1	2270.9
5°	2166.9	2192.1	2240.9	2289.8	2302.4	2313.4	2343.3	2318.1	2327.6	2311.8	2326.0
7.5°	2193.7	2228.3	2319.7	2349.6	2329.1	2352.7	2321.3	2303.9	2286.6	2292.9	2270.9
10°	2239.4	2283.5	2326.0	2381.1	2341.7	2318.1	2253.5	2237.8	2182.7	2163.8	2181.1
12.5°	2296.1	2349.6	2422.0	2401.6	2326.0	2258.3	2189.0	2122.8	2089.8	2042.5	2055.1
15°	2352.7	2414.2	2425.2	2390.5	2296.1	2211.0	2085.0	1992.1	1959.0	1916.5	1938.6
17.5°	2414.2	2472.4	2453.5	2363.8	2236.2	2107.1	1963.8	1872.4	1803.1	1776.4	1776.4
20°	2505.5	2533.9	2503.9	2319.7	2163.8	1993.7	1855.1	1751.2	1681.9	1670.9	1653.5
22.5°	2576.4	2622.0	2488.2	2255.1	2058.3	1845.7	1686.6	1647.2	1626.8	1609.4	1587.4
25°	2667.7	2666.1	2459.8	2195.3	1877.2	1669.3	1573.2	1570.1	1560.6	1554.3	1584.2
27.5°	2754.3	2718.1	2426.8	2047.2	1689.8	1535.4	1483.5	1518.1	1532.3	1522.8	1535.4
30°	2891.3	2831.5	2379.5	1889.8	1524.4	1400.0	1409.4	1456.7	1480.3	1494.5	1475.6
32.5°	3036.2	2944.9	2281.9	1726.0	1377.9	1315.0	1337.0	1385.8	1414.2	1429.9	1447.2
35°	3245.7	3033.1	2182.7	1511.8	1272.4	1263.0	1275.6	1302.4	1343.3	1354.3	1359.1
37.5°	3503.9	3166.9	2048.8	1340.2	1190.5	1201.6	1214.2	1223.6	1225.2	1245.7	1237.8
40°	3762.2	3280.3	1853.5	1176.4	1105.5	1165.4	1159.1	1141.7	1127.6	1108.7	1103.9
42.5°	3989.0	3379.5	1636.2	1037.8	1029.9	1127.6	1107.1	1063.0	1029.9	1015.7	992.1
45°	4244.1	3519.7	1417.3	951.2	971.7	1081.9	1075.6	1007.9	965.4	915.0	908.7
47.5°	4574.8	3666.1	1207.9	861.4	916.5	1064.6	1067.7	981.1	919.7	852.0	842.5
50°	4998.4	3877.2	1048.8	823.6	883.5	1039.4	1044.1	944.9	864.6	795.3	789.0
52.5°	5404.7	4092.9	916.5	765.4	861.4	1009.4	1020.5	911.8	818.9	732.3	737.0
55°	5609.4	4014.2	803.1	722.8	811.0	960.6	1001.6	888.2	749.6	689.8	688.2
57.5°	5655.1	3820.5	713.4	678.7	768.5	908.7	970.1	817.3	718.1	667.7	661.4
60°	5505.5	3481.9	642.5	631.5	715.0	855.1	897.6	779.5	686.6	645.7	636.2
62.5°	5137.0	3130.7	593.7	609.4	669.3	796.8	852.0	752.8	656.7	628.3	607.9
65°	4212.6	2574.8	554.3	566.9	622.0	740.2	823.6	722.8	629.9	603.1	601.6
67.5°	2918.1	1774.8	522.8	546.5	584.3	699.2	795.3	689.8	595.3	585.8	573.2
70°	1494.5	946.5	481.9	500.8	543.3	647.2	744.9	655.1	559.1	557.5	541.7
72.5°	757.5	554.3	434.6	463.0	492.9	579.5	681.9	609.4	513.4	496.1	470.9
73°	655.1	513.4	426.8	452.0	480.3	560.6	663.0	598.4	507.1	481.9	458.3
75°	477.2	404.7	382.7	407.9	429.9	505.5	600.0	548.0	466.1	439.4	417.3
77.5°	357.5	311.8	318.1	346.5	365.4	436.2	533.9	496.1	422.0	385.8	376.4
80°	263.0	237.8	263.0	289.8	303.9	384.3	486.6	429.9	355.9	315.0	307.1
82.5°	187.4	173.2	203.1	220.5	226.8	318.1	437.8	343.3	269.3	215.7	198.4
85°	107.1	105.5	137.0	135.4	140.2	185.8	288.2	228.3	173.2	132.3	129.1
87.5°	47.2	52.0	69.3	55.1	58.3	88.2	122.8	85.0	70.9	39.4	29.9
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)