

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: P478039

Luminaire Tested: **IFLD-S-SA3A-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478039
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

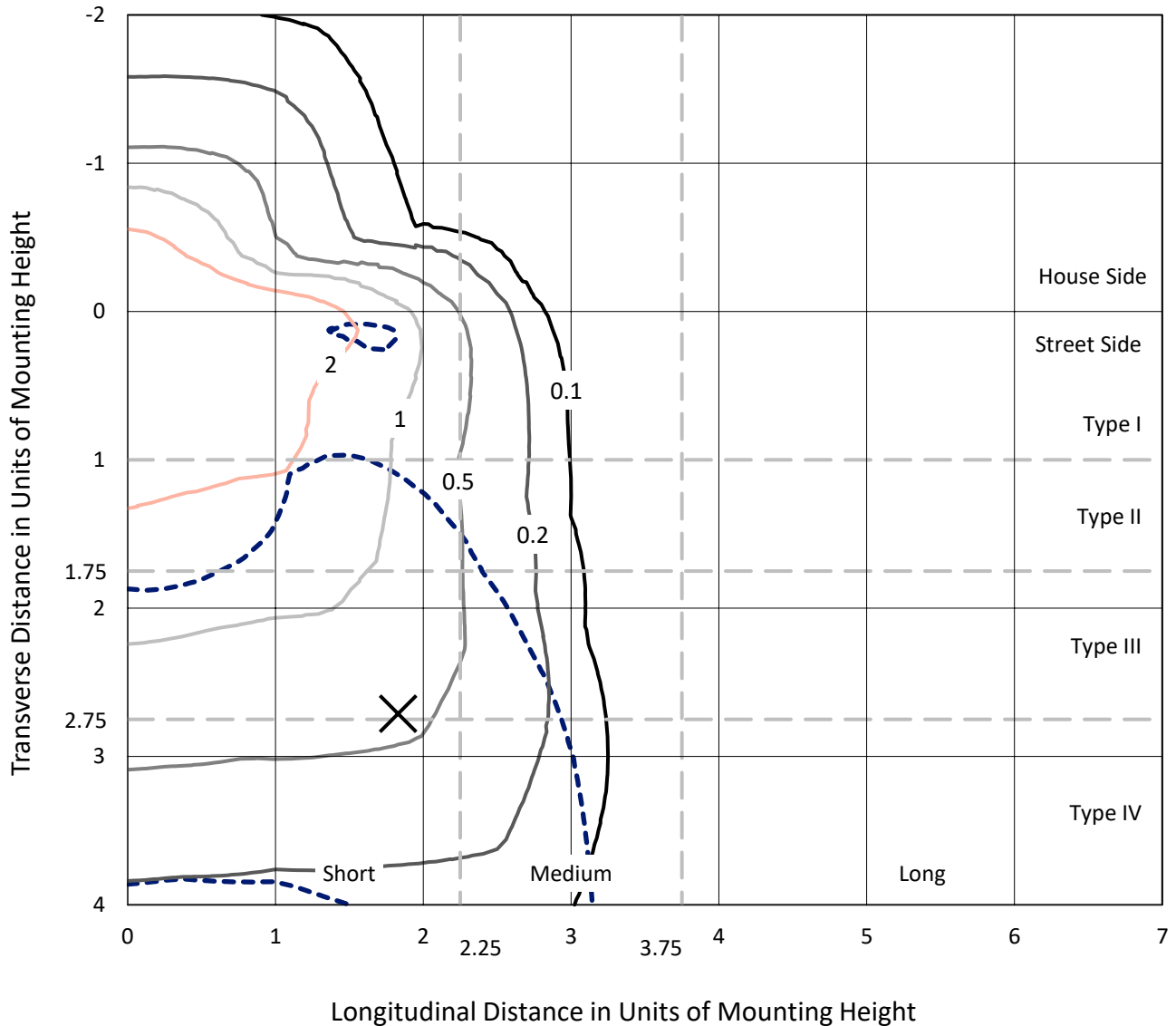
Lumens per Lamp: N/A
Luminaire Lumens: 11788.1 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

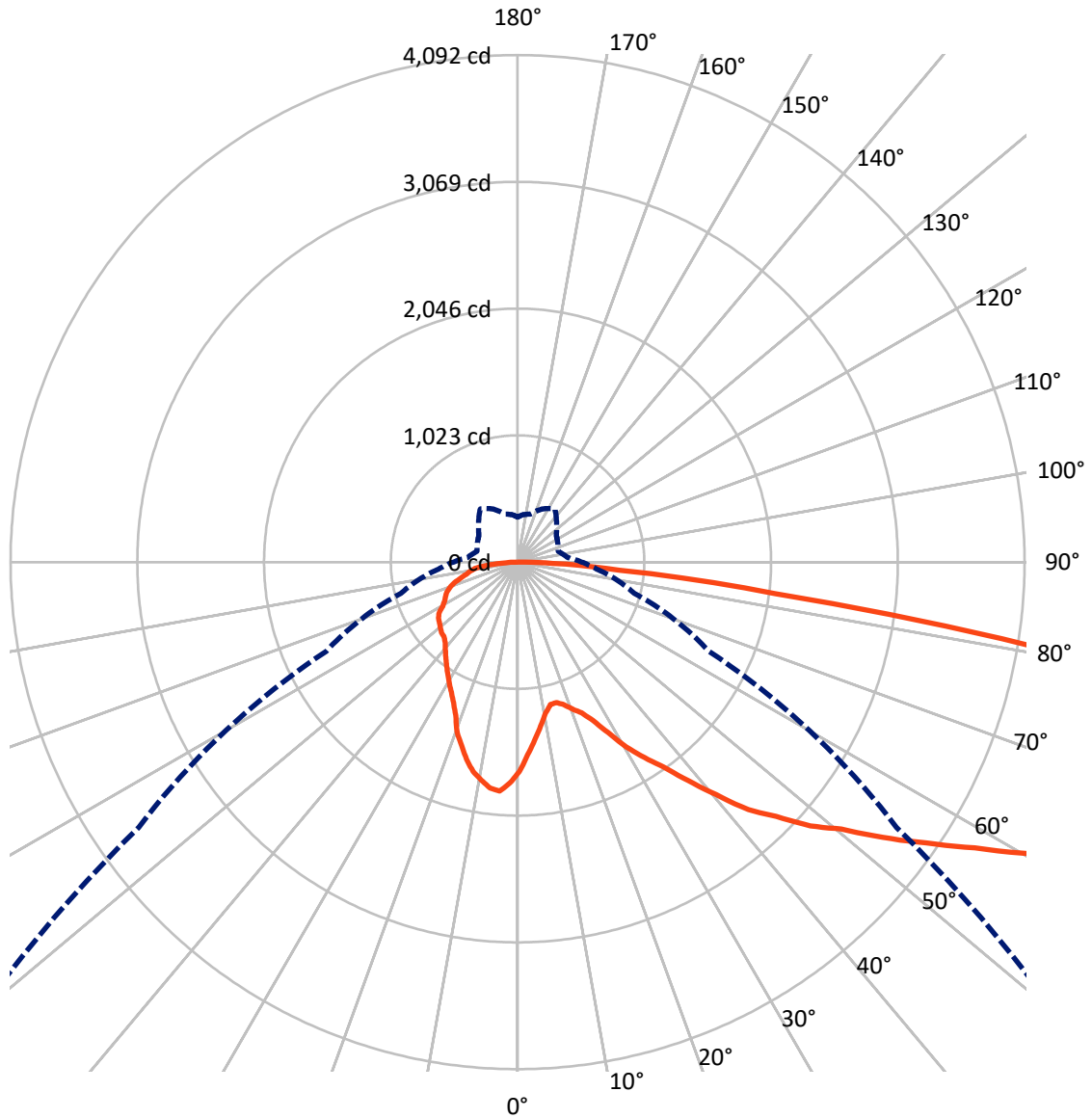
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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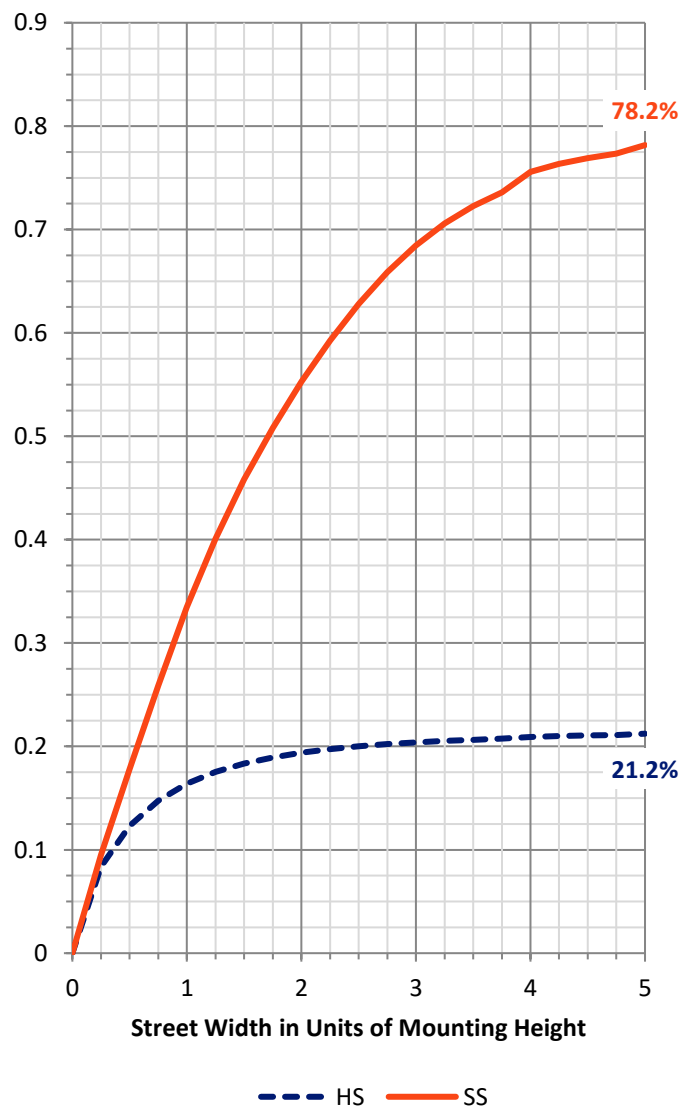
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.4	0.0	2546.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9241.7	0.0	9241.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	11788.1	0.0	11788.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	1.3
10°-20°	436.5	3.7
20°-30°	718.4	6.1
30°-40°	1074.4	9.1
40°-50°	1592.8	13.5
50°-60°	2295.4	19.5
60°-70°	2929.2	24.8
70°-80°	2279.4	19.3
80°-90°	305.8	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°	11788.1	100.0
0°-180°	11788.1	100.0

Coefficient of Utilization



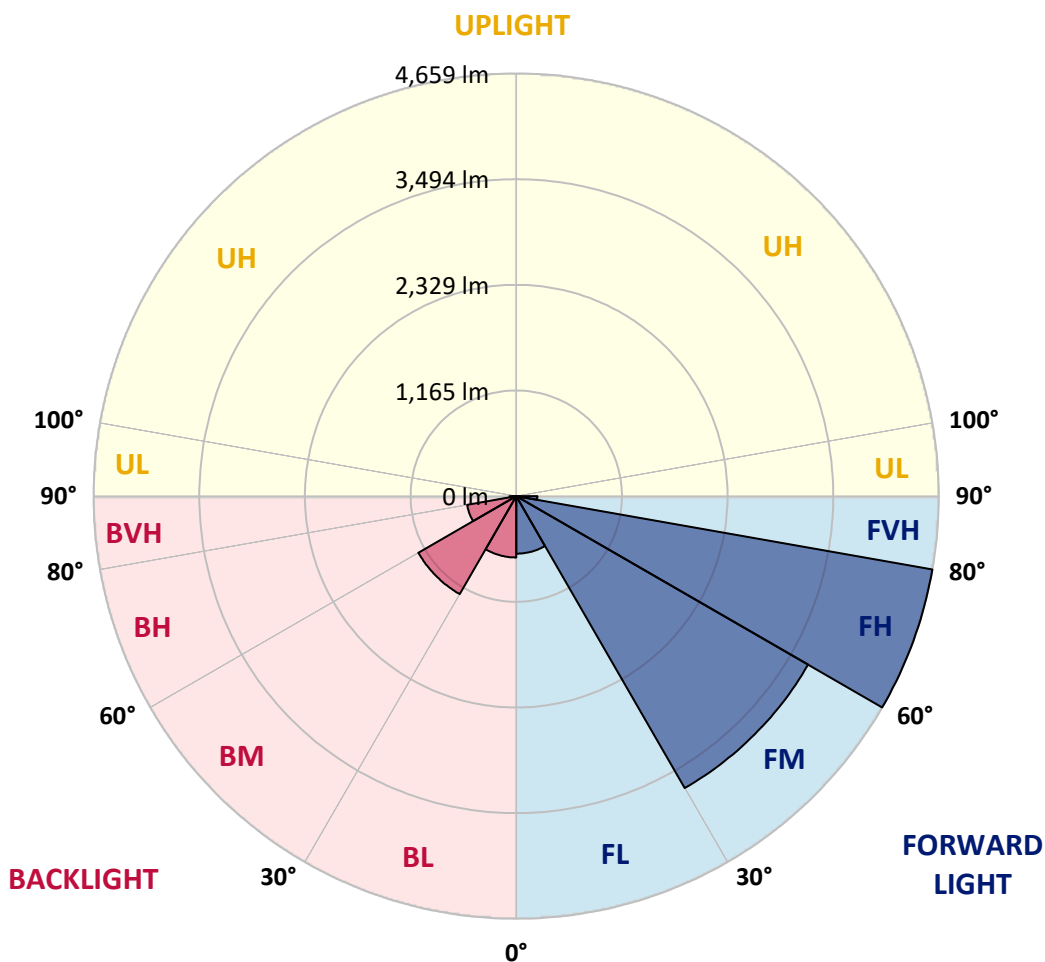
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.4	5.4			
FM (30°-60°)	3715.7	31.5			
FH (60°-80°)	4658.9	39.5			G2/5000
FVH (80°-90°)	232.8	2.0			G3/500
BL (0°-30°)	676.6	5.7	B2/1000		
BM (30°-60°)	1247.0	10.6	B2/2500		
BH (60°-80°)	549.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.0	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°	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1514.3	1519.3	1535.5	1539.2	1556.6	1546.7	1567.9	1605.3	1626.4	1657.6	1695.0
5°	1394.6	1373.4	1383.4	1422.0	1442.0	1447.0	1469.4	1533.0	1572.8	1619.0	1688.8
7.5°	1253.8	1250.1	1270.0	1294.9	1334.8	1338.5	1388.4	1444.5	1526.7	1628.9	1711.2
10°	1157.8	1174.0	1185.2	1211.4	1238.8	1238.8	1302.4	1399.6	1493.1	1591.5	1716.2
12.5°	1152.8	1142.9	1145.4	1159.1	1179.0	1203.9	1263.8	1351.0	1469.4	1584.1	1737.4
15°	1169.0	1172.8	1150.3	1167.8	1175.3	1184.0	1250.1	1348.5	1454.4	1610.2	1773.5
17.5°	1255.0	1233.9	1199.0	1182.8	1208.9	1208.9	1253.8	1331.1	1456.9	1623.9	1825.9
20°	1322.3	1322.3	1265.0	1247.6	1266.3	1262.5	1293.7	1351.0	1469.4	1651.4	1884.4
22.5°	1435.8	1452.0	1357.2	1321.1	1319.8	1329.8	1357.2	1405.8	1504.3	1690.0	1940.5
25°	1599.0	1602.8	1493.1	1455.7	1415.8	1432.0	1437.0	1485.6	1535.5	1734.9	2004.1
27.5°	1781.0	1778.5	1677.5	1584.1	1557.9	1561.6	1534.2	1566.6	1581.6	1748.6	2095.1
30°	1982.9	1960.5	1884.4	1752.3	1731.1	1707.5	1647.6	1646.4	1677.5	1825.9	2220.9
32.5°	2115.0	2086.3	2034.0	1939.3	1880.7	1883.2	1788.5	1787.2	1759.8	1910.6	2330.6
35°	2244.6	2201.0	2187.3	2090.1	2031.5	2037.7	1961.7	1951.7	1901.9	2039.0	2511.3
37.5°	2400.4	2361.8	2383.0	2309.4	2237.1	2207.2	2172.3	2159.9	2095.1	2219.7	2758.1
40°	2572.4	2559.9	2546.2	2510.1	2466.5	2469.0	2431.6	2419.1	2323.1	2437.8	2994.9
42.5°	2804.2	2756.8	2685.8	2709.5	2731.9	2755.6	2743.1	2710.7	2611.0	2659.6	3259.1
45°	3019.8	2957.5	2826.6	2834.1	2926.3	2945.0	3095.8	3092.1	2891.5	2941.3	3559.5
47.5°	3165.6	3137.0	3058.5	3049.7	3181.8	3180.6	3452.3	3452.3	3186.8	3221.7	3882.3
50°	3382.5	3307.7	3274.1	3317.7	3385.0	3431.1	3816.2	3839.9	3477.2	3514.6	4304.8
52.5°	3636.7	3543.3	3458.5	3570.7	3690.3	3720.3	4176.4	4166.4	3700.3	3854.9	4799.6
55°	3847.4	3800.0	3741.4	3806.2	4001.9	4039.3	4537.8	4445.6	3923.4	4136.5	5037.6
57.5°	4092.9	4121.6	4134.0	4117.8	4350.9	4409.5	4950.4	4686.1	4115.3	4326.0	5177.2
60°	4463.1	4480.5	4496.7	4535.3	4782.1	4864.4	5276.9	4987.8	4236.2	4435.6	5188.4
62.5°	5026.4	4959.1	4995.2	5128.6	5326.8	5420.2	5758.0	5199.6	4328.5	4501.7	4822.0
65°	5670.7	5579.8	5542.4	5714.4	6227.8	6153.1	6358.7	5357.9	4195.1	4254.9	4089.2
67.5°	6323.8	6333.8	6237.8	6583.0	7212.4	7212.4	6917.0	5433.9	3833.7	3448.6	2867.8
70°	6842.3	6873.4	6925.8	7595.0	8592.1	8742.9	7608.8	5122.4	3097.1	2295.7	1567.9
72.5°	6834.8	6741.3	7009.3	8241.9	9845.9	9720.0	7753.3	4050.5	1933.0	1124.2	719.1
73°	6681.5	6603.0	6895.9	8235.7	9897.0	9778.6	7647.4	3734.0	1705.0	974.6	639.4
75°	5456.4	5314.3	5812.8	7459.2	9156.7	9247.7	6497.0	2435.3	934.7	600.7	449.9
77.5°	2487.6	2550.0	3199.3	5004.0	7056.6	7163.8	4271.1	1053.1	512.2	421.3	331.5
80°	798.9	838.8	1245.1	2487.6	4423.2	4616.4	1974.2	478.6	365.2	322.8	248.0
82.5°	305.3	304.1	522.2	1034.4	2096.3	2219.7	721.6	291.6	271.7	238.0	175.7
85°	107.2	112.2	196.9	408.8	825.1	863.7	250.5	162.0	188.2	159.5	101.0
87.5°	37.4	38.6	69.8	148.3	284.2	300.4	69.8	64.8	93.5	92.2	51.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1707.5	1718.7	1722.4	1767.3	1767.3	1767.3	1784.7	1784.7	1779.7	1767.3	1797.2
5°	1714.9	1734.9	1773.5	1812.1	1822.1	1830.8	1854.5	1834.6	1842.1	1829.6	1840.8
7.5°	1736.1	1763.5	1835.8	1859.5	1843.3	1862.0	1837.1	1823.4	1809.6	1814.6	1797.2
10°	1772.3	1807.2	1840.8	1884.4	1853.3	1834.6	1783.5	1771.0	1727.4	1712.4	1726.1
12.5°	1817.1	1859.5	1916.8	1900.6	1840.8	1787.2	1732.4	1680.0	1653.9	1616.5	1626.4
15°	1862.0	1910.6	1919.3	1891.9	1817.1	1749.8	1650.1	1576.6	1550.4	1516.8	1534.2
17.5°	1910.6	1956.7	1941.8	1870.7	1769.8	1667.6	1554.2	1481.9	1427.0	1405.8	1405.8
20°	1982.9	2005.3	1981.6	1835.8	1712.4	1577.8	1468.2	1385.9	1331.1	1322.3	1308.6
22.5°	2039.0	2075.1	1969.2	1784.7	1628.9	1460.7	1334.8	1303.6	1287.4	1273.7	1256.3
25°	2111.3	2110.0	1946.7	1737.4	1485.6	1321.1	1245.1	1242.6	1235.1	1230.1	1253.8
27.5°	2179.8	2151.1	1920.6	1620.2	1337.3	1215.2	1174.0	1201.4	1212.7	1205.2	1215.2
30°	2288.2	2240.9	1883.2	1495.6	1206.4	1108.0	1115.5	1152.8	1171.5	1182.8	1167.8
32.5°	2402.9	2330.6	1805.9	1366.0	1090.5	1040.7	1058.1	1096.8	1119.2	1131.7	1145.4
35°	2568.7	2400.4	1727.4	1196.5	1007.0	999.5	1009.5	1030.7	1063.1	1071.8	1075.6
37.5°	2773.1	2506.3	1621.5	1060.6	942.2	950.9	960.9	968.4	969.6	985.8	979.6
40°	2977.4	2596.1	1466.9	931.0	874.9	922.3	917.3	903.6	892.4	877.4	873.7
42.5°	3156.9	2674.6	1294.9	821.3	815.1	892.4	876.2	841.3	815.1	803.9	785.2
45°	3358.8	2785.5	1121.7	752.8	769.0	856.2	851.2	797.6	764.0	724.1	719.1
47.5°	3620.5	2901.4	955.9	681.7	725.4	842.5	845.0	776.5	727.8	674.3	666.8
50°	3955.8	3068.4	830.0	651.8	699.2	822.6	826.3	747.8	684.2	629.4	624.4
52.5°	4277.4	3239.2	725.4	605.7	681.7	798.9	807.6	721.6	648.1	579.5	583.3
55°	4439.4	3176.9	635.6	572.1	641.9	760.3	792.7	702.9	593.2	545.9	544.6
57.5°	4475.5	3023.6	564.6	537.2	608.2	719.1	767.7	646.8	568.3	528.4	523.5
60°	4357.1	2755.6	508.5	499.8	565.8	676.7	710.4	616.9	543.4	511.0	503.5
62.5°	4065.5	2477.7	469.9	482.3	529.7	630.6	674.3	595.7	519.7	497.3	481.1
65°	3333.9	2037.7	438.7	448.7	492.3	585.8	651.8	572.1	498.5	477.3	476.1
67.5°	2309.4	1404.6	413.8	432.5	462.4	553.4	629.4	545.9	471.1	463.6	453.7
70°	1182.8	749.0	381.4	396.3	430.0	512.2	589.5	518.5	442.4	441.2	428.7
72.5°	599.5	438.7	344.0	366.4	390.1	458.6	539.7	482.3	406.3	392.6	372.6
73°	518.5	406.3	337.8	357.7	380.1	443.7	524.7	473.6	401.3	381.4	362.7
75°	377.6	320.3	302.9	322.8	340.2	400.1	474.8	433.7	368.9	347.7	330.3
77.5°	282.9	246.8	251.8	274.2	289.1	345.2	422.5	392.6	334.0	305.3	297.9
80°	208.1	188.2	208.1	229.3	240.5	304.1	385.1	340.2	281.7	249.3	243.0
82.5°	148.3	137.1	160.8	174.5	179.5	251.8	346.5	271.7	213.1	170.7	157.0
85°	84.7	83.5	108.4	107.2	110.9	147.1	228.1	180.7	137.1	104.7	102.2
87.5°	37.4	41.1	54.8	43.6	46.1	69.8	97.2	67.3	56.1	31.2	23.7
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)