

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: P478309

Luminaire Tested: **IFLD-S-SA2C-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478309
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

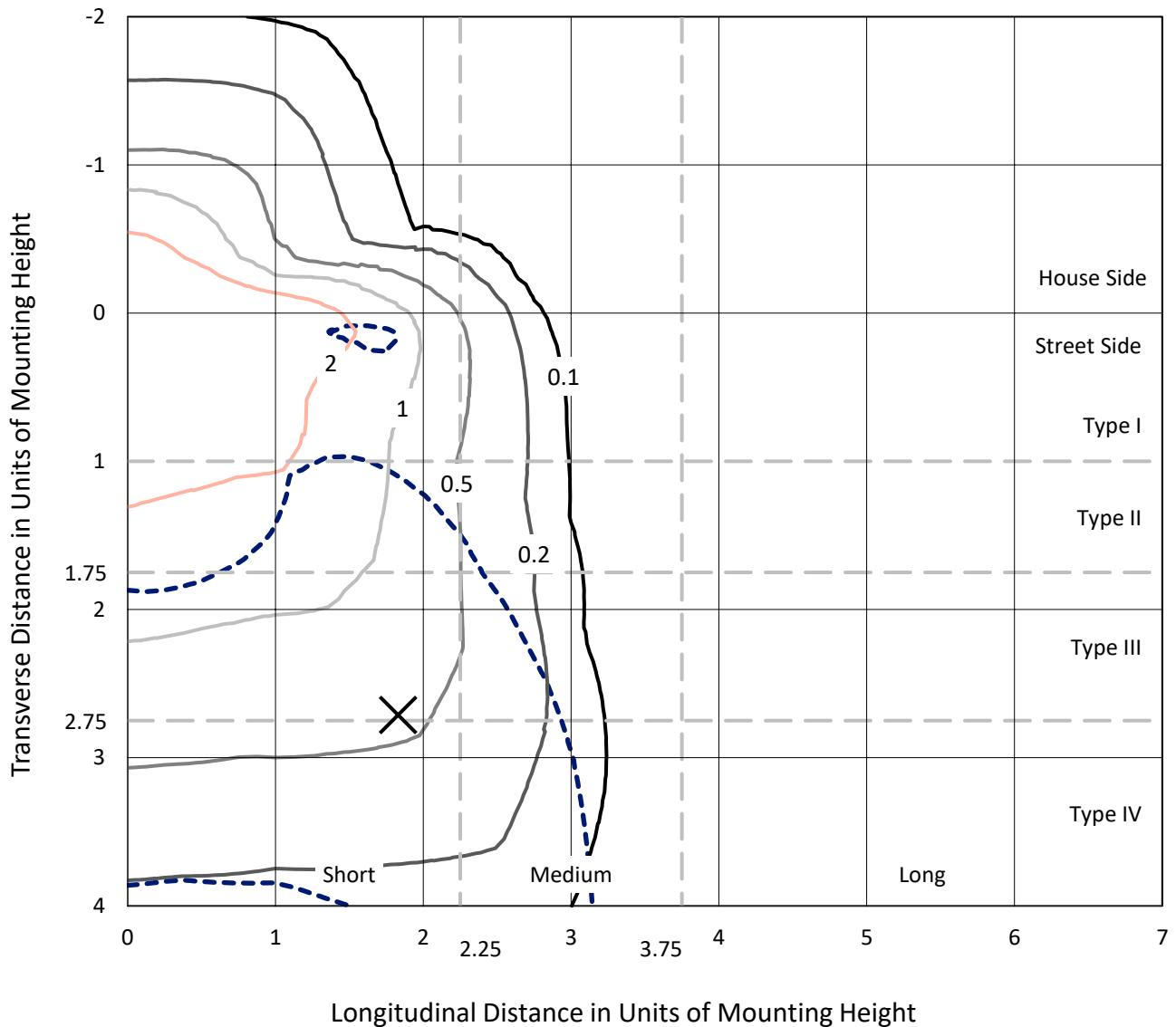
Lumens per Lamp: N/A
Luminaire Lumens: 11570.6 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

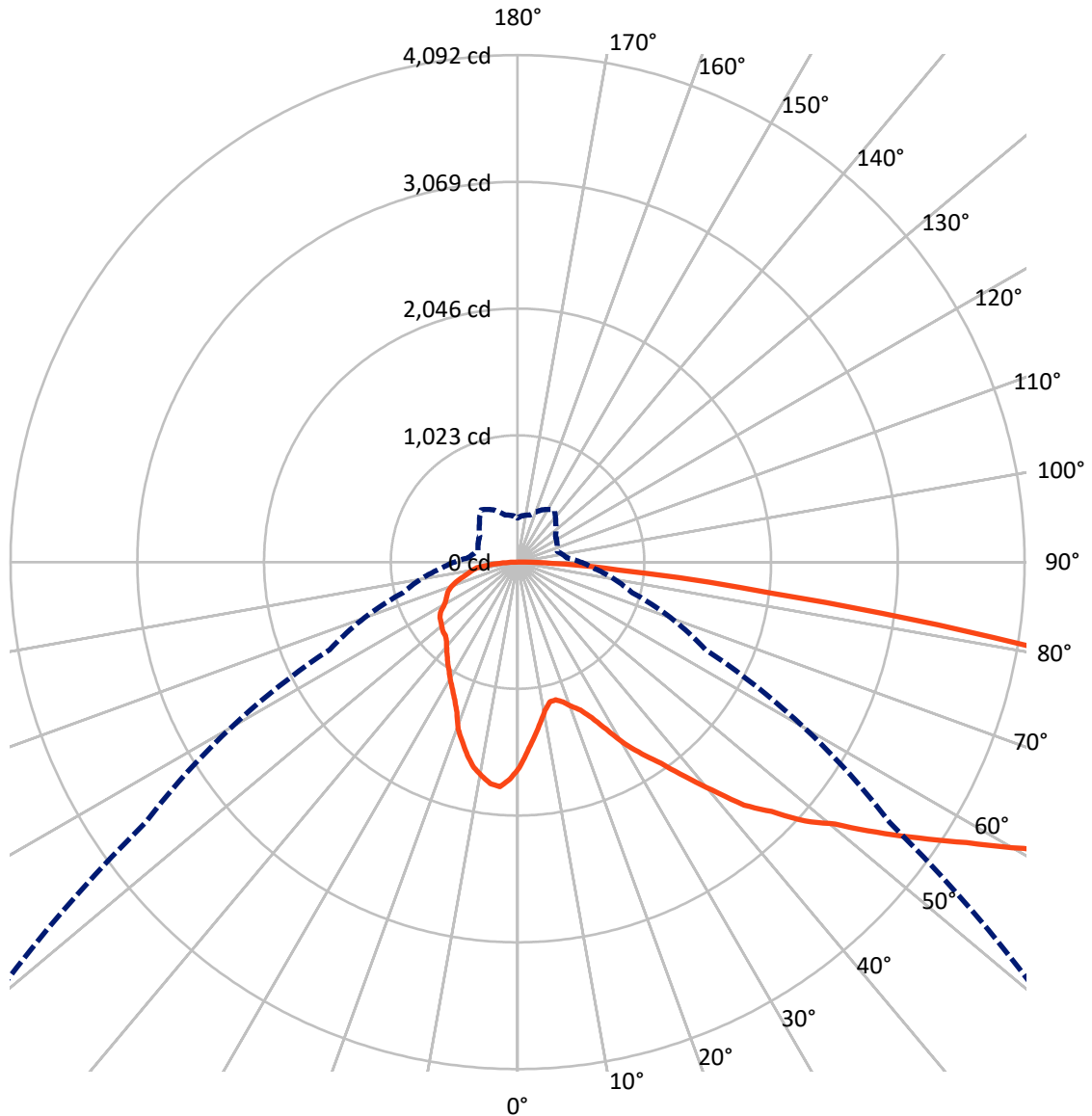
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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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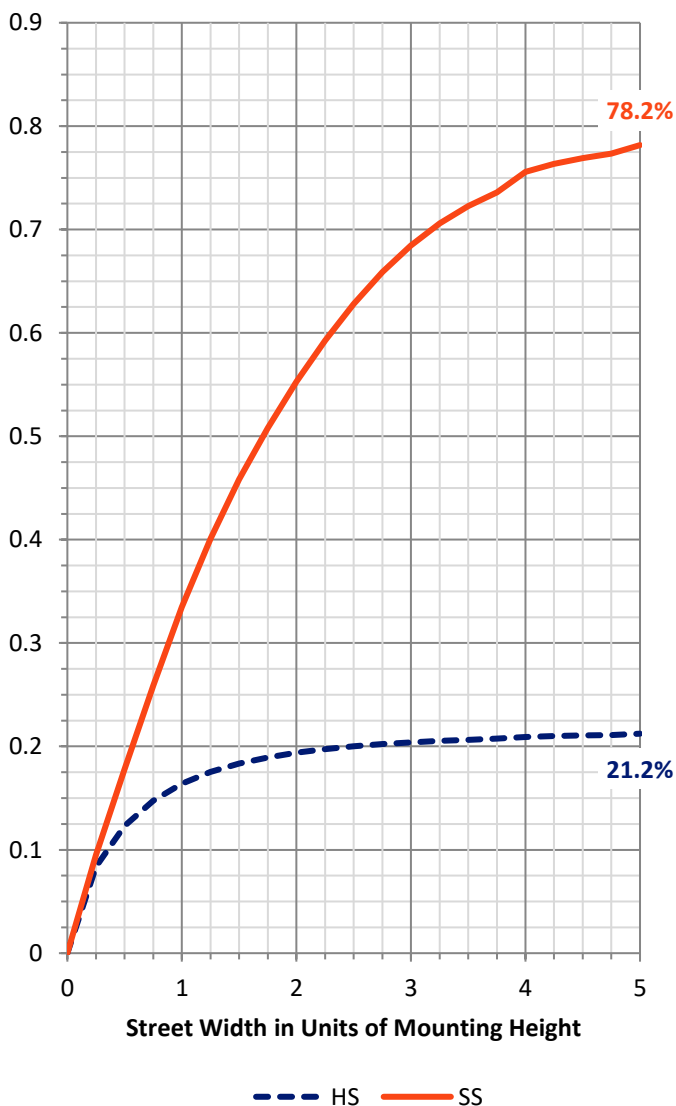
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2499.4	0.0	2499.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9071.2	0.0	9071.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	11570.6	0.0	11570.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	1.3
10°-20°	428.5	3.7
20°-30°	705.2	6.1
30°-40°	1054.6	9.1
40°-50°	1563.4	13.5
50°-60°	2253.0	19.5
60°-70°	2875.2	24.8
70°-80°	2237.4	19.3
80°-90°	300.2	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°	11570.6	100.0
0°-180°	11570.6	100.0

Coefficient of Utilization



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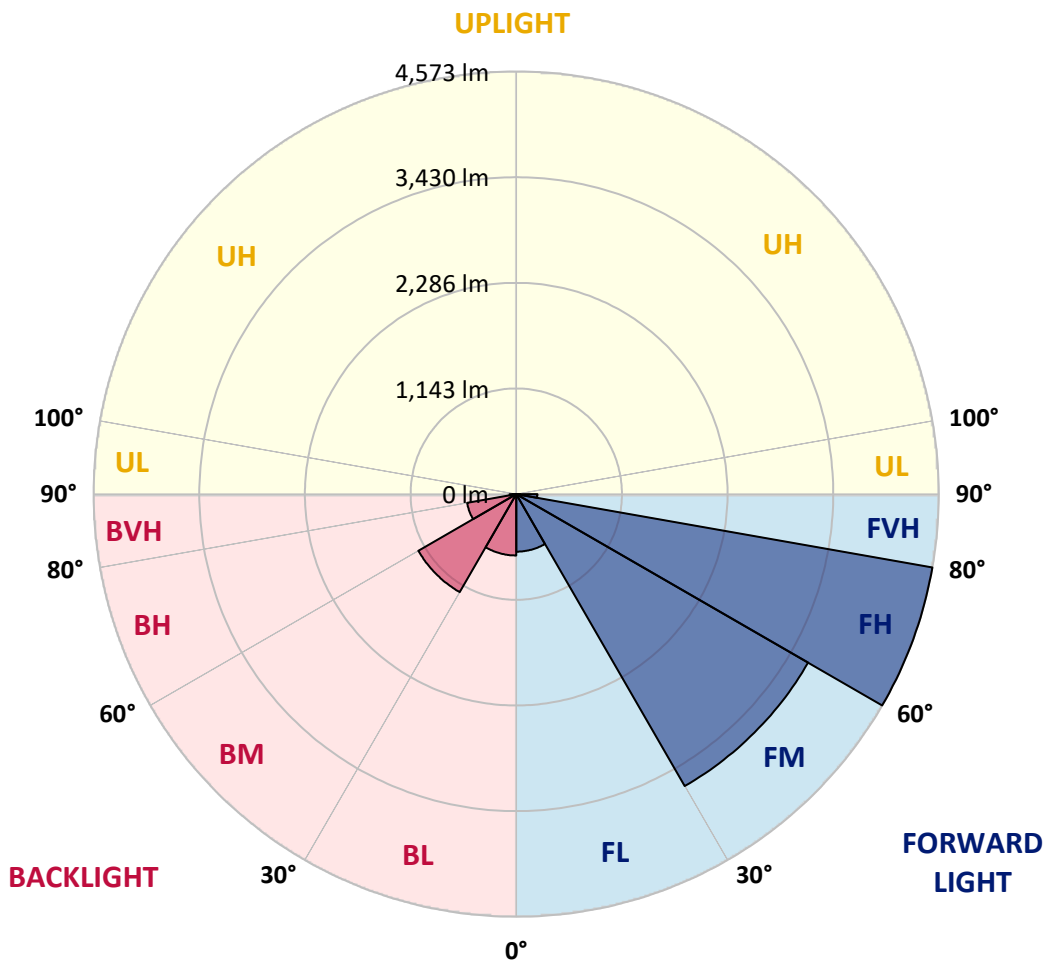
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.7	5.4			
FM (30°-60°)	3647.1	31.5			
FH (60°-80°)	4572.9	39.5			G2/5000
FVH (80°-90°)	228.5	2.0			G3/500
BL (0°-30°)	664.1	5.7	B2/1000		
BM (30°-60°)	1224.0	10.6	B2/2500		
BH (60°-80°)	539.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	71.7	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°	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8
2.5°	1486.3	1491.2	1507.1	1510.8	1527.9	1518.1	1538.9	1575.6	1596.4	1627.0	1663.7
5°	1368.9	1348.1	1357.9	1395.8	1415.4	1420.3	1442.3	1504.7	1543.8	1589.1	1657.6
7.5°	1230.7	1227.0	1246.6	1271.0	1310.2	1313.8	1362.8	1417.8	1498.6	1598.9	1679.6
10°	1136.5	1152.4	1163.4	1189.1	1216.0	1216.0	1278.4	1373.8	1465.5	1562.2	1684.5
12.5°	1131.6	1121.8	1124.2	1137.7	1157.3	1181.7	1240.4	1326.1	1442.3	1554.8	1705.3
15°	1147.5	1151.1	1129.1	1146.3	1153.6	1162.2	1227.0	1323.6	1427.6	1580.5	1740.8
17.5°	1231.9	1211.1	1176.8	1160.9	1186.6	1186.6	1230.7	1306.5	1430.1	1594.0	1792.2
20°	1297.9	1297.9	1241.7	1224.5	1242.9	1239.2	1269.8	1326.1	1442.3	1620.9	1849.7
22.5°	1409.3	1425.2	1332.2	1296.7	1295.5	1305.3	1332.2	1379.9	1476.5	1658.8	1904.7
25°	1569.5	1573.2	1465.5	1428.8	1389.7	1405.6	1410.5	1458.2	1507.1	1702.9	1967.1
27.5°	1748.1	1745.7	1646.6	1554.8	1529.2	1532.8	1505.9	1537.7	1552.4	1716.3	2056.4
30°	1946.3	1924.3	1849.7	1720.0	1699.2	1675.9	1617.2	1616.0	1646.6	1792.2	2180.0
32.5°	2076.0	2047.8	1996.5	1903.5	1846.0	1848.4	1755.5	1754.2	1727.3	1875.4	2287.6
35°	2203.2	2160.4	2146.9	2051.5	1994.0	2000.1	1925.5	1915.7	1866.8	2001.4	2465.0
37.5°	2356.1	2318.2	2339.0	2266.8	2195.9	2166.5	2132.2	2120.0	2056.4	2178.7	2707.2
40°	2524.9	2512.7	2499.2	2463.8	2421.0	2423.4	2386.7	2374.5	2280.3	2392.8	2939.6
42.5°	2752.5	2706.0	2636.3	2659.5	2681.5	2704.8	2692.5	2660.7	2562.9	2610.6	3199.0
45°	2964.1	2902.9	2774.5	2781.8	2872.4	2890.7	3038.7	3035.1	2838.1	2887.0	3493.8
47.5°	3107.2	3079.1	3002.0	2993.5	3123.1	3121.9	3388.6	3388.6	3128.0	3162.3	3810.6
50°	3320.1	3246.7	3213.7	3256.5	3322.5	3367.8	3745.8	3769.1	3413.1	3449.8	4225.4
52.5°	3569.7	3477.9	3394.7	3504.8	3622.3	3651.6	4099.3	4089.6	3632.0	3783.7	4711.0
55°	3776.4	3729.9	3672.4	3736.0	3928.1	3964.8	4454.1	4363.6	3851.0	4060.2	4944.7
57.5°	4017.4	4045.5	4057.8	4041.9	4270.6	4328.1	4859.0	4599.7	4039.4	4246.1	5081.7
60°	4380.7	4397.8	4413.7	4451.7	4693.9	4774.6	5179.5	4895.7	4158.1	4353.8	5092.7
62.5°	4933.7	4867.6	4903.1	5034.0	5228.5	5320.2	5651.7	5103.7	4248.6	4418.6	4733.0
65°	5566.1	5476.8	5440.1	5608.9	6112.9	6039.5	6241.4	5259.1	4117.7	4176.4	4013.7
67.5°	6207.1	6216.9	6122.7	6461.6	7079.4	7079.4	6789.4	5333.7	3762.9	3384.9	2814.9
70°	6716.0	6746.6	6798.0	7454.9	8433.6	8581.6	7468.4	5027.8	3040.0	2253.4	1538.9
72.5°	6708.7	6616.9	6880.0	8089.8	9664.2	9540.7	7610.3	3975.8	1897.4	1103.4	705.9
73°	6558.2	6481.2	6768.6	8083.7	9714.4	9598.2	7506.3	3665.1	1673.5	956.6	627.6
75°	5355.7	5216.2	5705.6	7321.6	8987.7	9077.0	6377.2	2390.4	917.5	589.6	441.6
77.5°	2441.7	2502.9	3140.3	4911.6	6926.4	7031.6	4192.3	1033.7	502.8	413.5	325.4
80°	784.1	823.3	1222.1	2441.7	4341.6	4531.2	1937.7	469.8	358.4	316.8	243.4
82.5°	299.7	298.5	512.6	1015.4	2057.6	2178.7	708.3	286.3	266.7	233.7	172.5
85°	105.2	110.1	193.3	401.2	809.8	847.8	245.9	159.0	184.7	156.6	99.1
87.5°	36.7	37.9	68.5	145.6	278.9	294.8	68.5	63.6	91.7	90.5	50.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8	1658.8
2.5°	1675.9	1687.0	1690.6	1734.7	1734.7	1734.7	1751.8	1751.8	1746.9	1734.7	1764.0
5°	1683.3	1702.9	1740.8	1778.7	1788.5	1797.1	1820.3	1800.7	1808.1	1795.8	1806.8
7.5°	1704.1	1731.0	1802.0	1825.2	1809.3	1827.6	1803.2	1789.7	1776.3	1781.2	1764.0
10°	1739.6	1773.8	1806.8	1849.7	1819.1	1800.7	1750.6	1738.3	1695.5	1680.8	1694.3
12.5°	1783.6	1825.2	1881.5	1865.6	1806.8	1754.2	1700.4	1649.0	1623.3	1586.6	1596.4
15°	1827.6	1875.4	1883.9	1857.0	1783.6	1717.5	1619.7	1547.5	1521.8	1488.8	1505.9
17.5°	1875.4	1920.6	1905.9	1836.2	1737.1	1636.8	1525.5	1454.5	1400.7	1379.9	1379.9
20°	1946.3	1968.3	1945.1	1802.0	1680.8	1548.7	1441.1	1360.3	1306.5	1297.9	1284.5
22.5°	2001.4	2036.8	1932.8	1751.8	1598.9	1433.7	1310.2	1279.6	1263.7	1250.2	1233.1
25°	2072.3	2071.1	1910.8	1705.3	1458.2	1296.7	1222.1	1219.7	1212.3	1207.4	1230.7
27.5°	2139.6	2111.5	1885.1	1590.3	1312.6	1192.7	1152.4	1179.3	1190.3	1183.0	1192.7
30°	2246.0	2199.5	1848.4	1468.0	1184.2	1087.5	1094.9	1131.6	1149.9	1160.9	1146.3
32.5°	2358.6	2287.6	1772.6	1340.8	1070.4	1021.5	1038.6	1076.5	1098.5	1110.8	1124.2
35°	2521.3	2356.1	1695.5	1174.4	988.4	981.1	990.9	1011.7	1043.5	1052.1	1055.7
37.5°	2721.9	2460.1	1591.5	1041.0	924.8	933.4	943.2	950.5	951.7	967.6	961.5
40°	2922.5	2548.2	1439.8	913.8	858.8	905.3	900.4	886.9	875.9	861.2	857.5
42.5°	3098.7	2625.2	1271.0	806.2	800.1	875.9	860.0	825.7	800.1	789.0	770.7
45°	3296.9	2734.1	1101.0	738.9	754.8	840.4	835.5	782.9	749.9	710.7	705.9
47.5°	3553.7	2847.9	938.3	669.2	712.0	827.0	829.4	762.1	714.4	661.8	654.5
50°	3882.8	3011.8	814.7	639.8	686.3	807.4	811.1	734.0	671.6	617.8	612.9
52.5°	4198.4	3179.4	712.0	594.5	669.2	784.1	792.7	708.3	636.1	568.8	572.5
55°	4357.5	3118.2	623.9	561.5	630.0	746.2	778.0	690.0	582.3	535.8	534.6
57.5°	4392.9	2967.8	554.2	527.3	597.0	705.9	753.6	634.9	557.8	518.7	513.8
60°	4276.7	2704.8	499.1	490.6	555.4	664.3	697.3	605.5	533.4	501.6	494.2
62.5°	3990.5	2432.0	461.2	473.4	519.9	619.0	661.8	584.7	510.1	488.1	472.2
65°	3272.4	2000.1	430.6	440.4	483.2	575.0	639.8	561.5	489.3	468.5	467.3
67.5°	2266.8	1378.7	406.1	424.5	453.9	543.2	617.8	535.8	462.4	455.1	445.3
70°	1160.9	735.2	374.3	389.0	422.0	502.8	578.6	508.9	434.3	433.1	420.8
72.5°	588.4	430.6	337.6	359.7	382.9	450.2	529.7	473.4	398.8	385.3	365.8
73°	508.9	398.8	331.5	351.1	373.1	435.5	515.0	464.9	393.9	374.3	356.0
75°	370.7	314.4	297.3	316.8	334.0	392.7	466.1	425.7	362.1	341.3	324.2
77.5°	277.7	242.2	247.1	269.1	283.8	338.9	414.7	385.3	327.9	299.7	292.4
80°	204.3	184.7	204.3	225.1	236.1	298.5	378.0	334.0	276.5	244.7	238.5
82.5°	145.6	134.6	157.8	171.3	176.2	247.1	340.1	266.7	209.2	167.6	154.1
85°	83.2	82.0	106.4	105.2	108.9	144.4	223.9	177.4	134.6	102.8	100.3
87.5°	36.7	40.4	53.8	42.8	45.3	68.5	95.4	66.1	55.0	30.6	23.2
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)