

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: P479479

Luminaire Tested: **IFLD-S-SA2C-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479479  
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-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

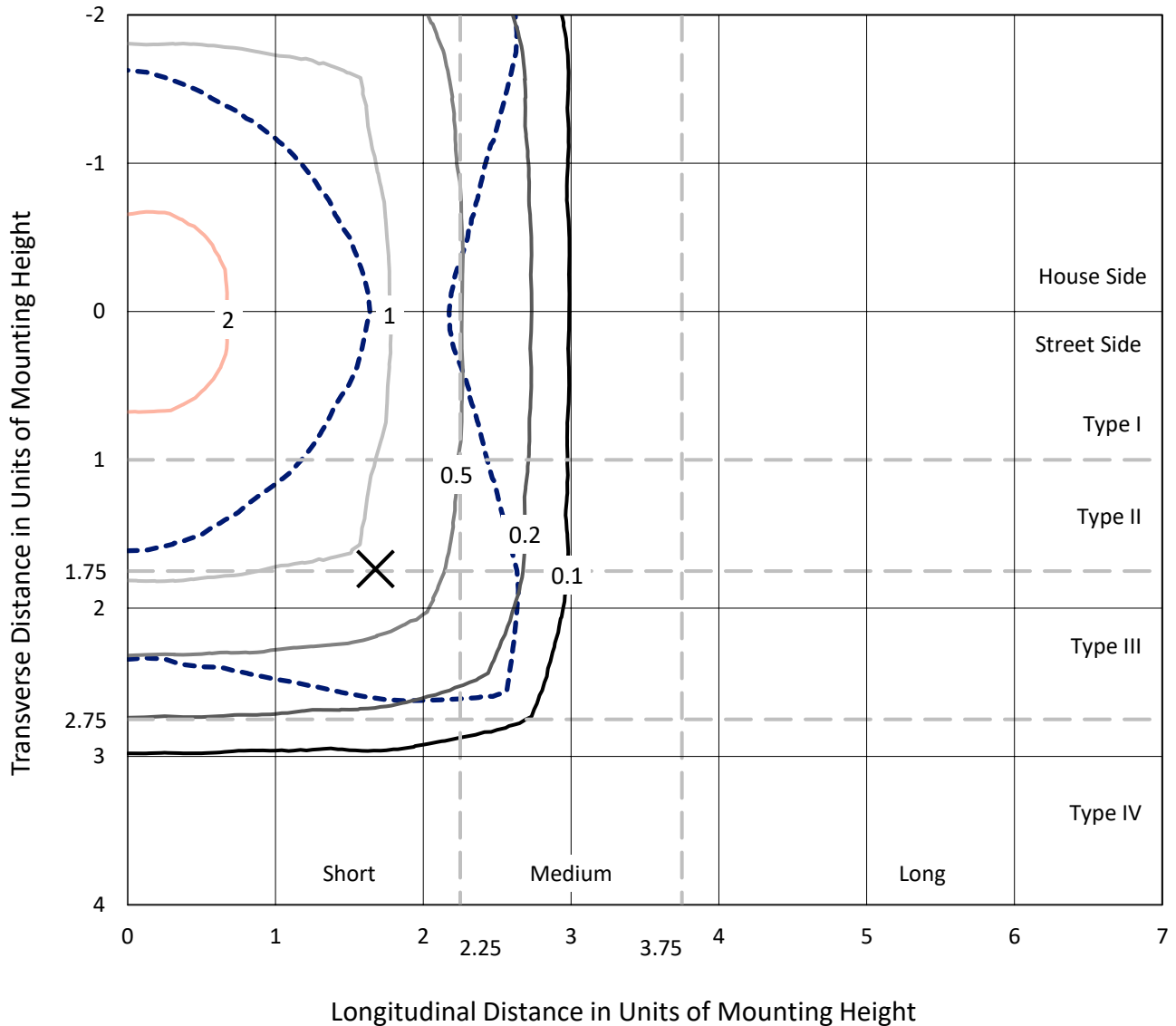
Lumens per Lamp: N/A  
Luminaire Lumens: 11400.2 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

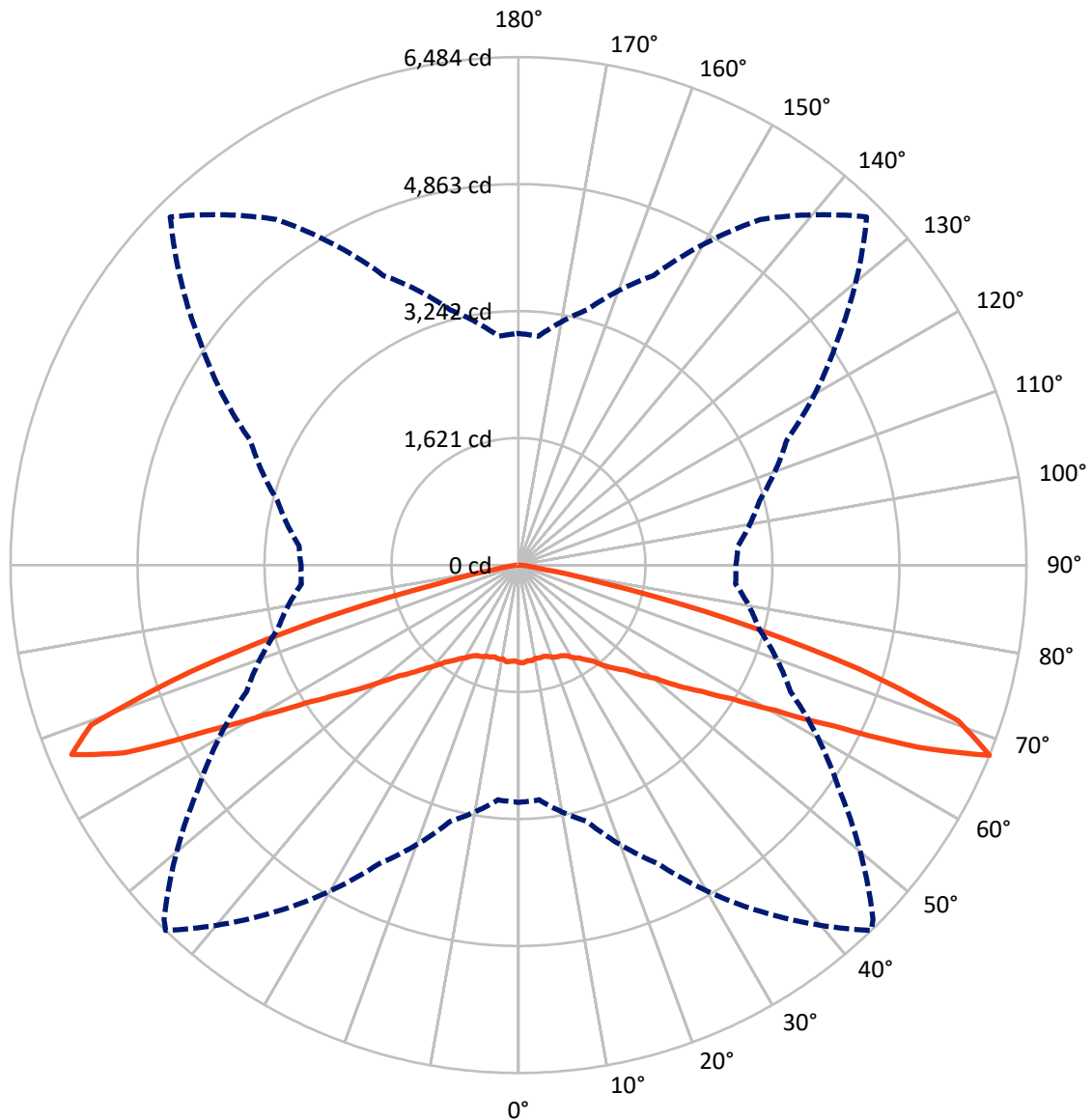
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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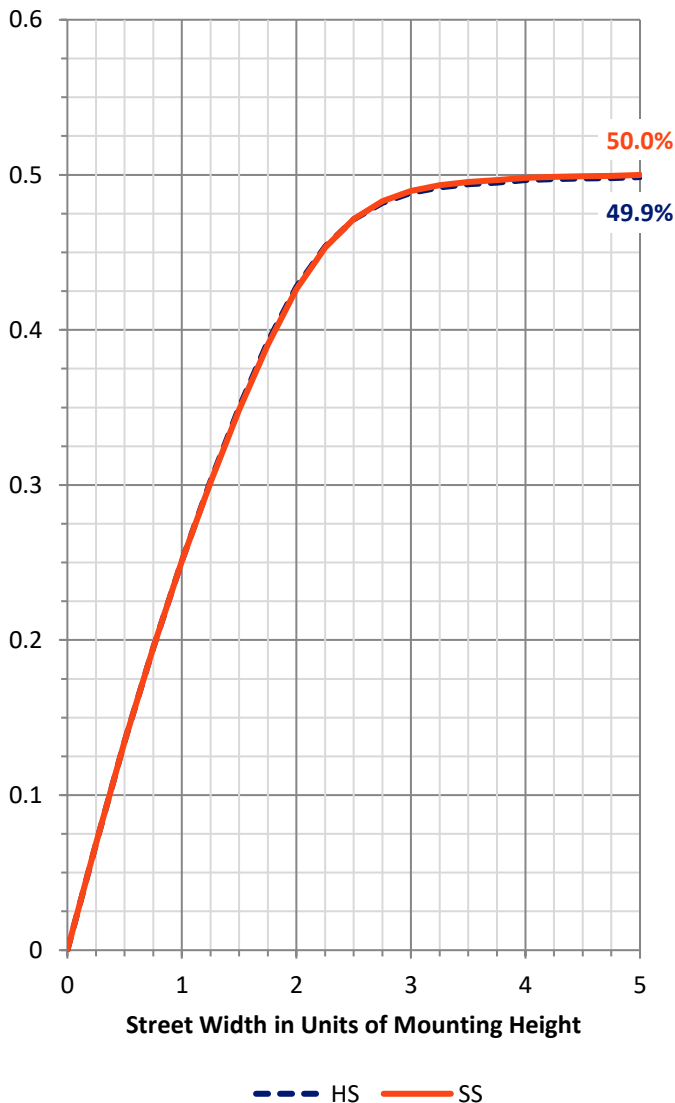
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5685.5	0.0	5685.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	5714.7	0.0	5714.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	11400.2	0.0	11400.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	1.0
10°-20°	344.3	3.0
20°-30°	585.4	5.1
30°-40°	928.2	8.1
40°-50°	1513.6	13.3
50°-60°	2585.0	22.7
60°-70°	3931.8	34.5
70°-80°	1325.2	11.6
80°-90°	68.8	0.6
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°	11400.2	100.0
0°-180°	11400.2	100.0



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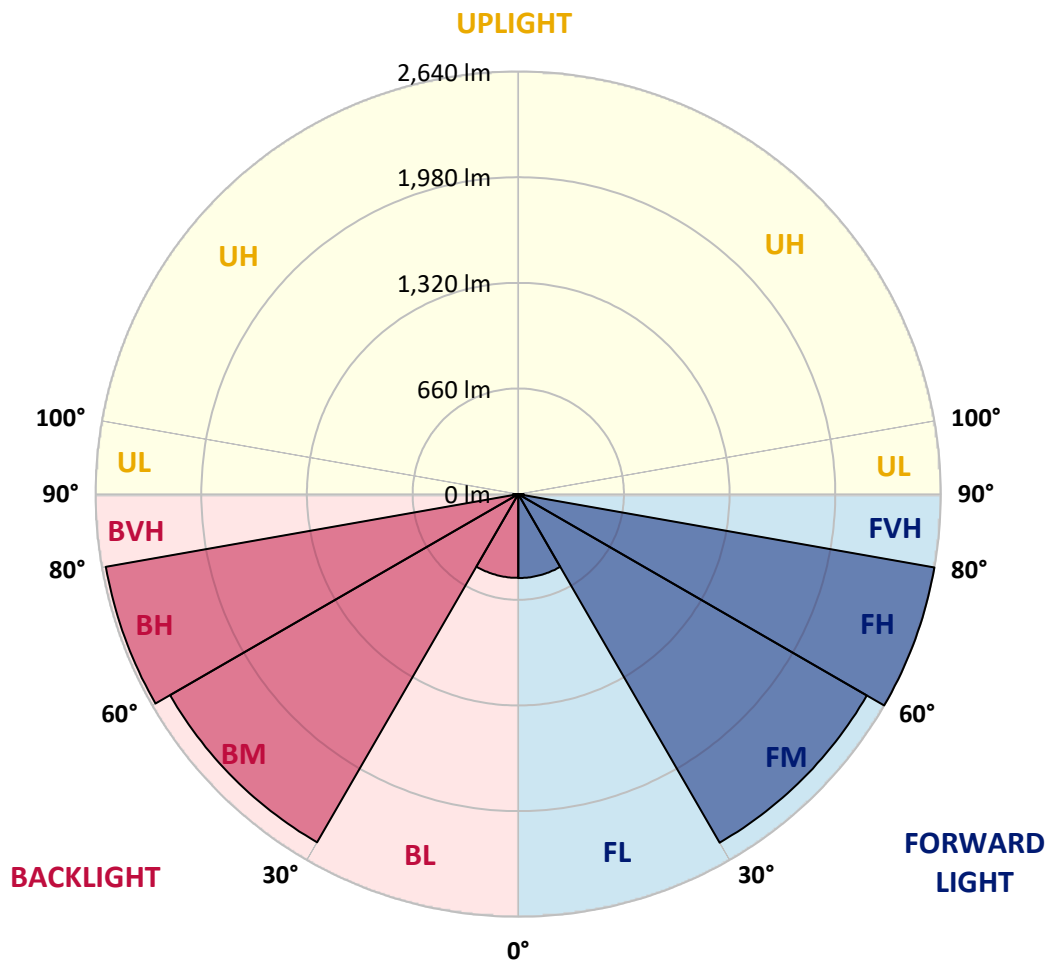
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.3	4.6			
FM (30°-60°)	2514.8	22.1			
FH (60°-80°)	2640.4	23.2			G2/5000
FVH (80°-90°)	35.2	0.3			G1/100
BL (0°-30°)	523.2	4.6	B2/1000		
BM (30°-60°)	2512.1	22.0	B3/5000		
BH (60°-80°)	2616.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	33.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1216.7	1231.0	1241.4	1240.1	1244.0	1247.9	1242.7	1250.5	1245.3	1254.4	1259.6
5°	1240.1	1236.2	1237.5	1229.7	1247.9	1227.1	1227.1	1237.5	1250.5	1234.9	1244.0
7.5°	1225.8	1223.2	1216.7	1228.4	1232.3	1232.3	1242.7	1223.2	1245.3	1250.5	1251.8
10°	1210.1	1195.8	1215.4	1227.1	1229.7	1208.8	1218.0	1223.2	1216.7	1223.2	1227.1
12.5°	1197.1	1204.9	1204.9	1204.9	1201.0	1215.4	1224.5	1223.2	1210.1	1221.9	1201.0
15°	1195.8	1191.9	1203.6	1214.0	1207.5	1210.1	1214.0	1225.8	1201.0	1206.2	1206.2
17.5°	1194.5	1199.7	1203.6	1202.3	1224.5	1224.5	1220.6	1212.7	1232.3	1221.9	1207.5
20°	1199.7	1195.8	1206.2	1210.1	1225.8	1257.0	1245.3	1238.8	1228.4	1215.4	1215.4
22.5°	1206.2	1203.6	1218.0	1234.9	1264.8	1272.6	1271.3	1263.5	1245.3	1229.7	1227.1
25°	1229.7	1206.2	1221.9	1254.4	1264.8	1280.4	1290.8	1280.4	1255.7	1259.6	1236.2
27.5°	1264.8	1260.9	1281.7	1303.8	1294.7	1309.0	1299.9	1307.7	1309.0	1289.5	1266.1
30°	1306.4	1294.7	1307.7	1350.7	1354.6	1370.2	1354.6	1333.8	1340.3	1323.4	1311.6
32.5°	1366.3	1362.4	1387.1	1415.7	1420.9	1413.1	1405.3	1417.0	1389.7	1376.7	1355.9
35°	1405.3	1422.2	1452.2	1474.3	1491.2	1483.4	1487.3	1475.6	1482.1	1454.8	1445.7
37.5°	1521.1	1514.6	1521.1	1558.9	1562.8	1558.9	1562.8	1575.8	1566.7	1543.3	1519.8
40°	1630.4	1620.0	1635.6	1678.6	1676.0	1689.0	1663.0	1677.3	1677.3	1633.0	1623.9
42.5°	1712.4	1747.6	1765.8	1800.9	1813.9	1802.2	1797.0	1799.6	1828.2	1776.2	1756.7
45°	1881.6	1880.3	1934.9	1954.4	1918.0	1915.4	1905.0	1936.2	1955.8	1925.8	1918.0
47.5°	2065.1	2074.2	2105.4	2113.2	2135.3	2095.0	2095.0	2098.9	2167.9	2097.6	2061.2
50°	2230.3	2242.0	2304.5	2365.6	2324.0	2281.1	2298.0	2318.8	2356.5	2290.2	2258.9
52.5°	2430.7	2494.5	2536.1	2568.6	2598.6	2568.6	2529.6	2553.0	2627.2	2538.7	2499.7
55°	2719.6	2770.3	2809.4	2869.2	2893.9	2853.6	2849.7	2847.1	2888.7	2795.0	2741.7
57.5°	3042.3	3021.5	3083.9	3176.3	3266.1	3227.1	3215.3	3217.9	3228.4	3095.6	3055.3
60°	3443.1	3466.5	3540.7	3621.3	3716.3	3771.0	3694.2	3650.0	3659.1	3478.2	3415.7
62.5°	3672.1	3724.1	3892.0	4169.1	4360.4	4530.9	4542.6	4255.0	4062.4	3711.1	3445.7
65°	3561.5	3553.7	3869.9	4382.5	5107.3	5603.1	5528.9	4831.5	4158.7	3600.5	3244.0
67.5°	3029.3	3008.4	3391.0	4204.3	5401.4	6484.0	6399.5	4994.1	3833.4	3185.4	2782.0
70°	1951.8	1946.6	2361.7	3204.9	4822.4	5953.1	5984.4	4536.1	3120.4	2333.1	1933.6
72.5°	709.2	752.1	992.8	1722.8	3275.2	4554.3	4573.8	3358.5	1794.4	1078.7	795.1
75°	261.5	269.4	313.6	559.5	1492.5	2796.3	2869.2	1629.1	637.6	351.3	286.3
77.5°	150.9	152.2	167.9	208.2	442.4	1091.7	1136.0	494.5	247.2	187.4	173.1
80°	102.8	101.5	118.4	135.3	177.0	309.7	329.2	206.9	156.1	130.1	109.3
82.5°	59.9	63.8	87.2	96.3	108.0	136.6	139.2	128.8	117.1	96.3	71.6
85°	36.4	29.9	48.1	53.4	62.5	61.2	61.2	70.3	75.5	67.7	40.3
87.5°	9.1	9.1	11.7	13.0	16.9	13.0	14.3	27.3	36.4	33.8	20.8
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°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1247.9	1244.0	1246.6	1260.9	1251.8	1224.5	1231.0	1245.3	1233.6	1227.1	1225.8
5°	1242.7	1250.5	1241.4	1244.0	1253.1	1231.0	1234.9	1253.1	1245.3	1247.9	1233.6
7.5°	1244.0	1247.9	1240.1	1228.4	1228.4	1246.6	1236.2	1238.8	1227.1	1246.6	1220.6
10°	1236.2	1225.8	1216.7	1223.2	1220.6	1215.4	1211.4	1219.3	1207.5	1224.5	1206.2
12.5°	1212.7	1215.4	1212.7	1210.1	1215.4	1228.4	1207.5	1210.1	1191.9	1194.5	1203.6
15°	1203.6	1211.4	1208.8	1223.2	1229.7	1210.1	1225.8	1210.1	1195.8	1188.0	1202.3
17.5°	1207.5	1219.3	1215.4	1225.8	1214.0	1228.4	1231.0	1224.5	1207.5	1201.0	1207.5
20°	1211.4	1207.5	1212.7	1231.0	1247.9	1233.6	1233.6	1229.7	1214.0	1204.9	1204.9
22.5°	1220.6	1214.0	1221.9	1236.2	1241.4	1263.5	1244.0	1234.9	1208.8	1185.4	1207.5
25°	1238.8	1242.7	1247.9	1242.7	1271.3	1268.7	1266.1	1259.6	1219.3	1220.6	1216.7
27.5°	1273.9	1251.8	1258.3	1289.5	1293.4	1303.8	1290.8	1302.5	1259.6	1260.9	1234.9
30°	1316.8	1293.4	1314.2	1341.6	1340.3	1359.8	1353.3	1355.9	1326.0	1309.0	1273.9
32.5°	1363.7	1361.1	1374.1	1391.0	1397.5	1407.9	1406.6	1406.6	1388.4	1344.2	1350.7
35°	1415.7	1434.0	1449.6	1467.8	1470.4	1483.4	1465.2	1467.8	1449.6	1417.0	1427.5
37.5°	1518.5	1517.2	1534.2	1556.3	1558.9	1548.5	1562.8	1556.3	1531.5	1509.4	1492.5
40°	1638.3	1612.2	1627.8	1679.9	1683.8	1665.6	1664.3	1663.0	1644.8	1596.6	1586.2
42.5°	1742.3	1776.2	1773.6	1790.5	1778.8	1769.7	1802.2	1784.0	1769.7	1718.9	1709.8
45°	1876.4	1886.8	1920.6	1975.3	1919.3	1919.3	1941.4	1927.1	1919.3	1881.6	1846.4
47.5°	2042.9	2052.0	2119.7	2123.6	2087.2	2062.5	2131.4	2134.0	2101.5	2072.9	2029.9
50°	2238.1	2242.0	2303.2	2365.6	2325.3	2278.5	2348.7	2376.0	2303.2	2264.1	2210.8
52.5°	2452.8	2441.1	2491.9	2609.0	2569.9	2555.6	2631.1	2637.6	2538.7	2477.5	2491.9
55°	2700.1	2684.4	2822.4	2901.7	2877.0	2851.0	2884.8	2900.4	2821.1	2720.9	2756.0
57.5°	3020.2	3028.0	3096.9	3175.0	3215.3	3221.8	3237.5	3221.8	3141.2	3039.7	3007.1
60°	3340.3	3363.7	3497.7	3644.7	3657.8	3772.3	3751.5	3673.4	3558.9	3414.4	3420.9
62.5°	3458.7	3439.2	3655.2	4014.3	4320.1	4529.6	4437.2	4160.0	3894.6	3631.7	3651.3
65°	3220.5	3268.7	3562.8	4124.9	4788.5	5617.4	5125.6	4359.1	3823.0	3483.4	3445.7
67.5°	2775.5	2812.0	3185.4	3778.8	4956.4	6286.2	5385.8	4078.1	3371.5	2931.7	2955.1
70°	1933.6	1951.8	2317.5	3095.6	4494.5	5932.3	4858.8	3132.1	2327.9	1855.6	1881.6
72.5°	778.1	822.4	1063.1	1864.7	3318.1	4507.5	3271.3	1643.5	965.5	718.3	651.9
75°	287.6	288.9	339.6	641.5	1575.8	2832.8	1475.6	528.3	308.4	252.4	240.7
77.5°	166.6	165.3	177.0	231.6	456.7	1106.0	419.0	206.9	167.9	150.9	144.4
80°	104.1	102.8	121.0	153.5	200.4	303.2	177.0	128.8	113.2	97.6	97.6
82.5°	66.4	67.7	95.0	113.2	122.3	134.0	102.8	91.1	84.6	56.0	54.7
85°	42.9	39.0	66.4	75.5	67.7	59.9	57.3	48.1	44.2	27.3	29.9
87.5°	19.5	20.8	33.8	37.7	24.7	14.3	14.3	10.4	10.4	6.5	6.5
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)