

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: P481156

Luminaire Tested: **IFLD-S-SA2C-727-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481156  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-727-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

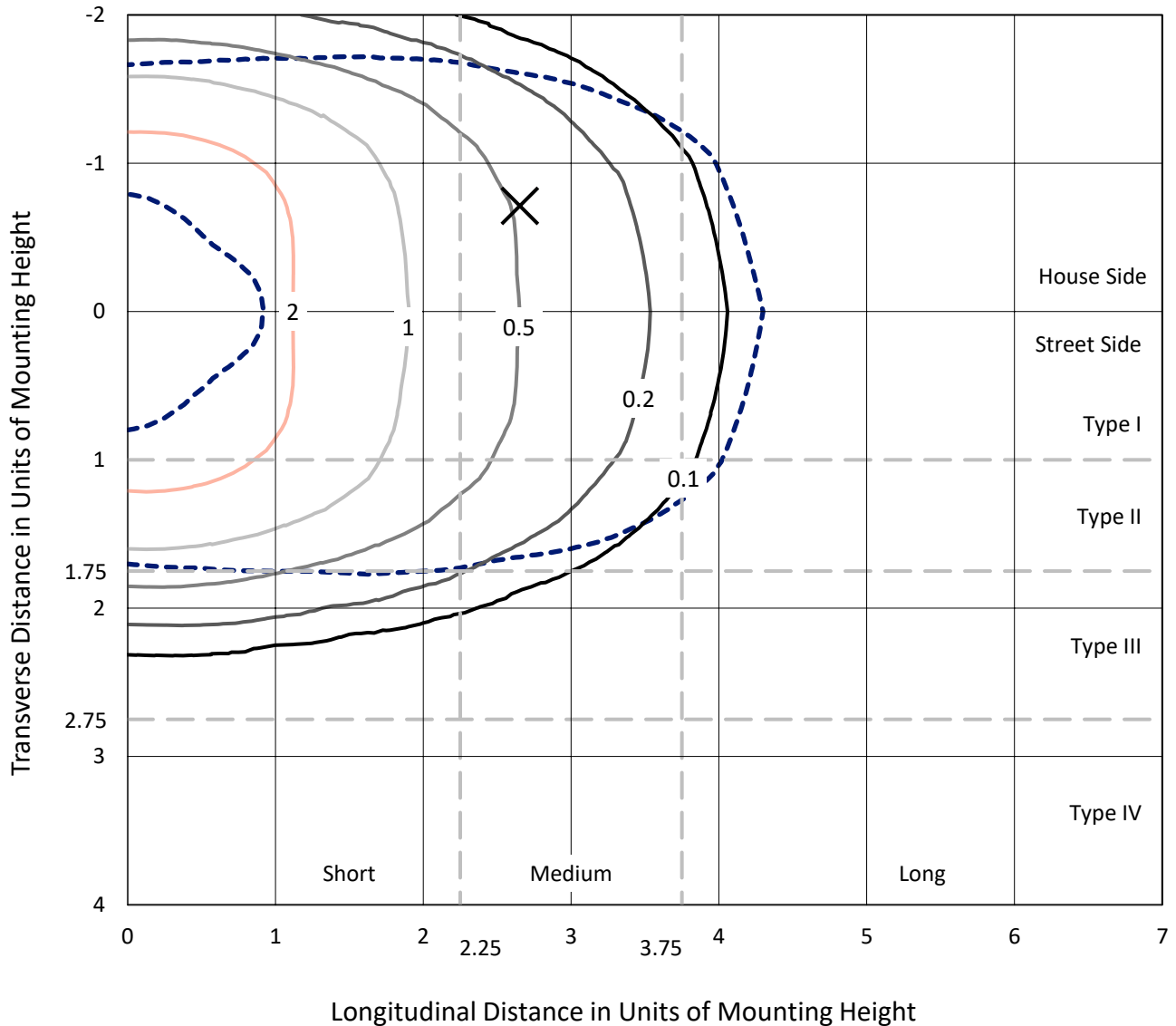
Lumens per Lamp: N/A  
Luminaire Lumens: 12243.6 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

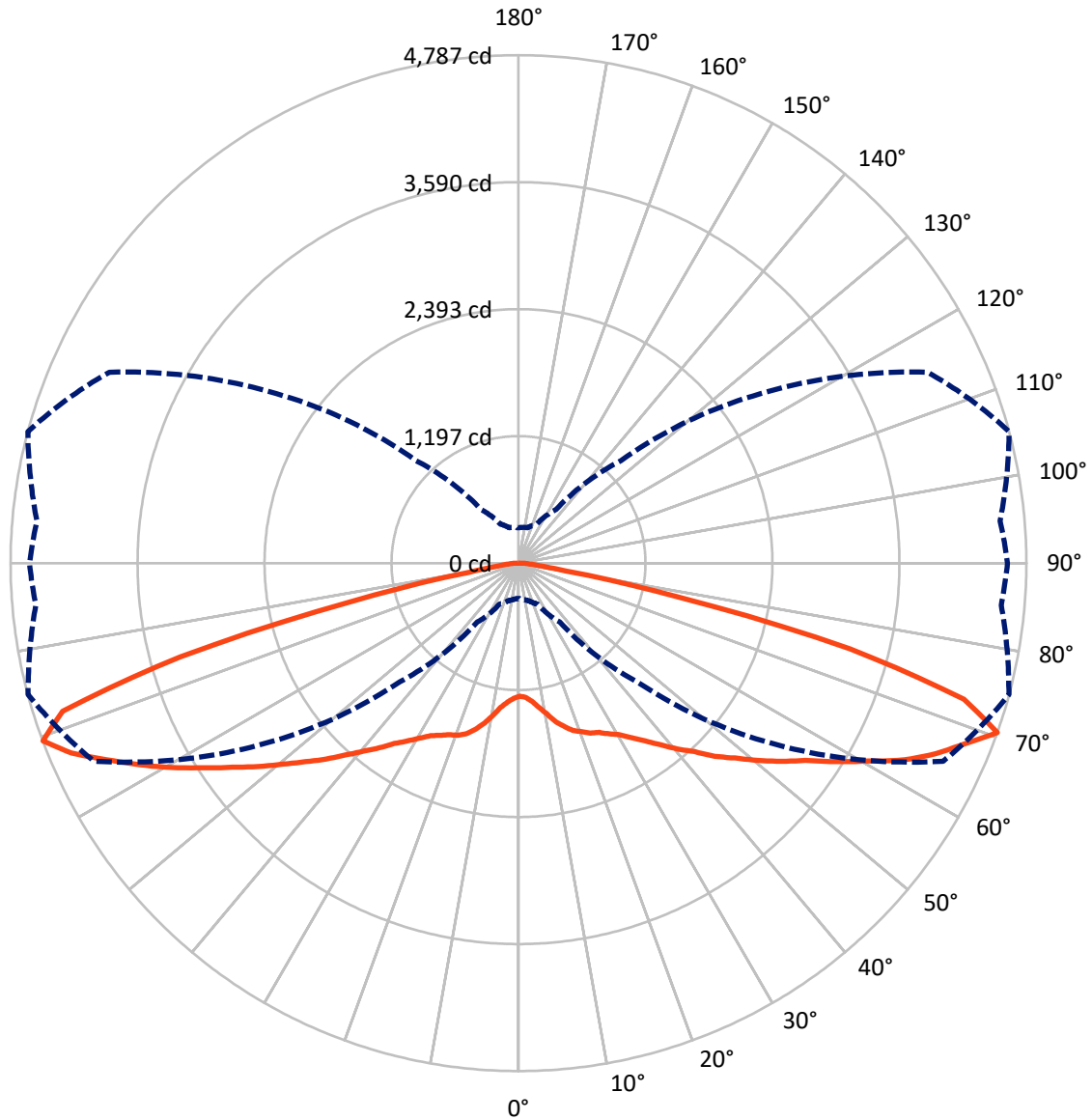
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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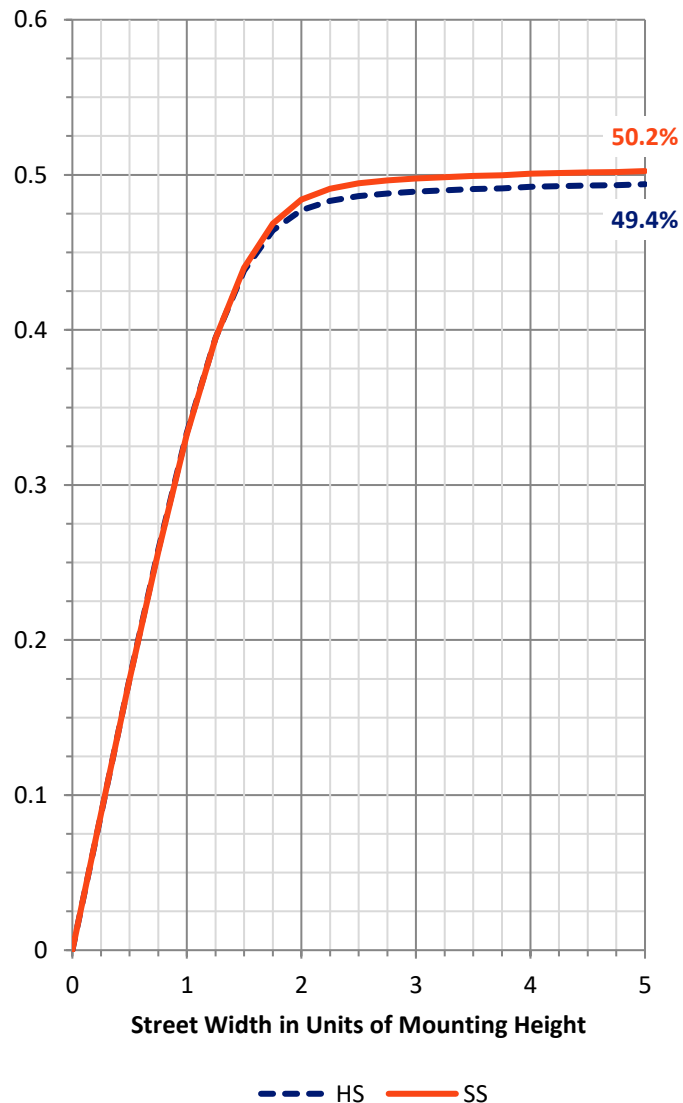
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6078.2	0.0	6078.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	6165.3	0.0	6165.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	12243.6	0.0	12243.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	1.0
10°-20°	424.9	3.5
20°-30°	822.7	6.7
30°-40°	1391.6	11.4
40°-50°	2220.0	18.1
50°-60°	3038.7	24.8
60°-70°	2864.2	23.4
70°-80°	1261.8	10.3
80°-90°	94.9	0.8
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°	12243.6	100.0
0°-180°	12243.6	100.0

**Coefficient of Utilization**



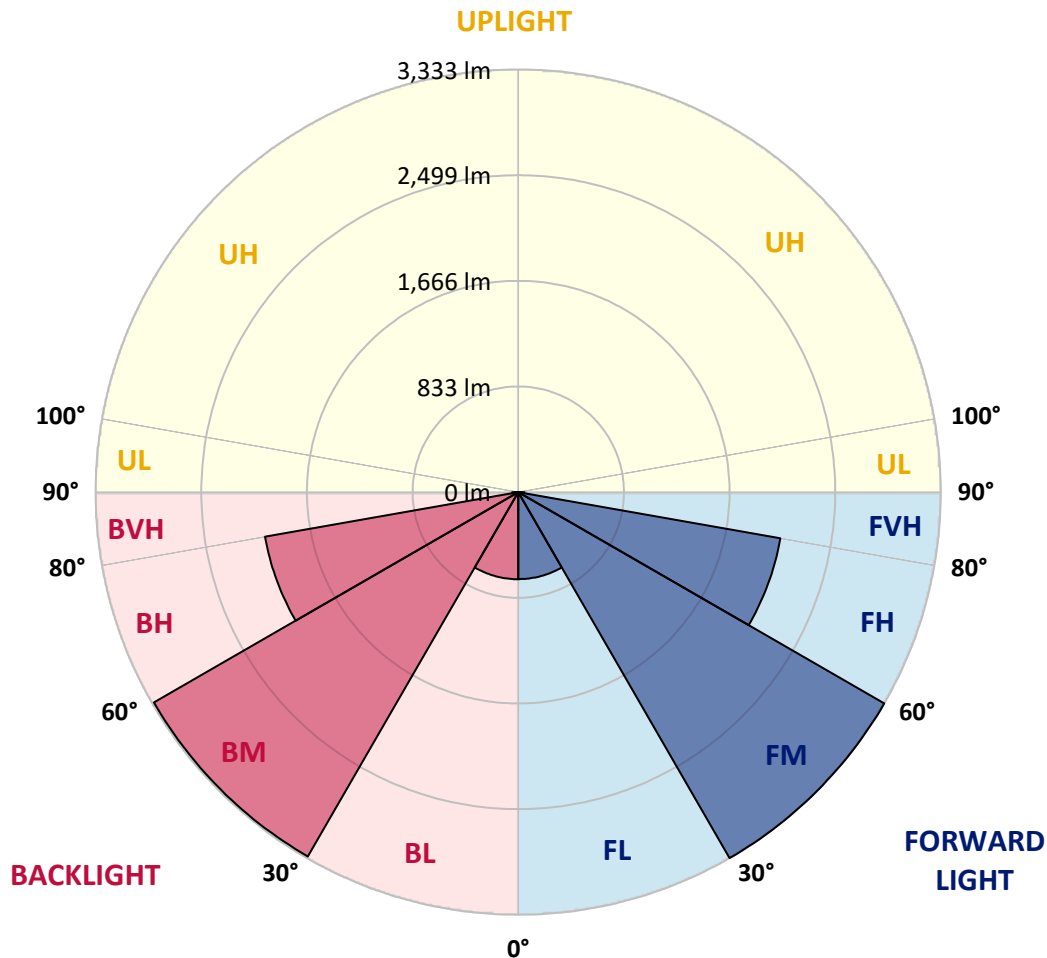
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.8	5.6			
FM (30°-60°)	3332.6	27.2			
FH (60°-80°)	2098.4	17.1			G2/5000
FVH (80°-90°)	48.5	0.4			G1/100
BL (0°-30°)	686.6	5.6	B2/1000		
BM (30°-60°)	3317.7	27.1	B3/5000		
BH (60°-80°)	2027.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	46.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1245.8	1245.8	1244.5	1251.1	1257.7	1260.3	1265.6	1266.9	1274.8	1268.2	1281.4
5°	1241.9	1240.5	1251.1	1266.9	1266.9	1284.1	1294.6	1309.2	1313.1	1321.0	1323.7
7.5°	1269.6	1266.9	1261.7	1278.8	1293.3	1319.7	1334.2	1359.3	1368.5	1379.1	1391.0
10°	1286.7	1286.7	1281.4	1311.8	1325.0	1360.6	1392.3	1417.4	1453.0	1464.9	1466.2
12.5°	1289.4	1293.3	1309.2	1348.8	1385.7	1431.9	1455.6	1503.2	1538.8	1561.2	1569.1
15°	1329.0	1321.0	1338.2	1392.3	1446.4	1487.3	1529.6	1563.9	1615.3	1644.4	1662.8
17.5°	1364.6	1356.7	1388.3	1453.0	1508.4	1571.8	1608.7	1645.7	1682.6	1709.0	1710.4
20°	1421.3	1427.9	1455.6	1525.6	1598.2	1653.6	1695.8	1702.4	1720.9	1759.2	1752.6
22.5°	1491.3	1486.0	1544.1	1620.6	1699.8	1746.0	1769.7	1752.6	1743.3	1784.3	1793.5
25°	1561.2	1577.1	1629.9	1701.1	1796.1	1858.2	1864.8	1817.3	1782.9	1797.5	1793.5
27.5°	1668.1	1670.8	1726.2	1810.7	1907.0	1961.1	1957.1	1889.8	1823.8	1825.2	1827.8
30°	1805.4	1792.2	1852.9	1929.4	2024.4	2073.3	2079.9	1983.5	1895.1	1868.7	1875.3
32.5°	1937.3	1953.2	2006.0	2093.1	2163.0	2190.7	2176.2	2090.4	1975.6	1940.0	1943.9
35°	2106.3	2103.6	2176.2	2250.1	2302.9	2308.2	2296.3	2170.9	2062.7	2016.5	1998.1
37.5°	2287.1	2310.8	2358.3	2419.0	2474.5	2477.1	2412.4	2312.1	2178.9	2102.3	2124.7
40°	2489.0	2515.4	2549.7	2638.1	2679.0	2636.8	2570.8	2434.9	2296.3	2229.0	2239.6
42.5°	2667.1	2679.0	2749.0	2853.2	2873.0	2854.5	2756.9	2591.9	2430.9	2357.0	2362.3
45°	2830.8	2846.6	2937.7	3031.4	3077.6	3045.9	2932.4	2775.4	2588.0	2524.6	2499.5
47.5°	2981.2	3012.9	3101.3	3197.7	3268.9	3271.6	3131.7	2941.7	2743.7	2660.6	2659.2
50°	3082.9	3129.1	3216.2	3325.7	3429.9	3470.9	3331.0	3126.4	2913.9	2825.5	2816.3
52.5°	3138.3	3185.8	3272.9	3443.1	3559.3	3622.6	3556.6	3299.3	3113.2	3020.8	3006.3
55°	3071.0	3102.7	3245.2	3484.1	3663.5	3767.8	3724.2	3538.2	3311.2	3235.9	3249.1
57.5°	2784.6	2850.6	3026.1	3324.4	3660.9	3916.9	3913.0	3763.8	3539.5	3468.2	3470.9
60°	2292.3	2347.8	2564.2	2981.2	3513.1	3977.6	4117.5	3982.9	3795.5	3712.4	3709.7
62.5°	1618.0	1687.9	1938.7	2394.0	3077.6	3893.2	4352.4	4258.7	4046.3	3985.5	4008.0
65°	905.3	947.6	1179.8	1591.6	2345.1	3428.6	4394.7	4545.1	4301.0	4208.6	4212.5
67.5°	484.3	500.2	608.4	835.4	1434.5	2643.4	3968.4	4710.1	4576.8	4417.1	4392.0
70°	332.6	337.8	365.6	427.6	678.3	1581.0	2993.1	4415.8	4784.0	4566.2	4608.5
72.5°	281.1	278.5	285.1	291.7	355.0	707.4	1756.5	3398.3	4516.1	4434.3	4418.4
75°	244.1	242.8	245.5	238.9	246.8	311.5	777.3	2118.1	3305.9	3689.9	3749.3
77.5°	201.9	203.2	204.6	198.0	195.3	205.9	312.8	930.4	1627.2	1796.1	1937.3
80°	153.1	155.7	166.3	159.7	149.1	150.4	184.8	311.5	467.2	423.6	436.8
82.5°	104.3	105.6	128.0	120.1	112.2	101.6	118.8	161.0	182.1	138.6	121.4
85°	73.9	72.6	83.1	76.5	71.3	51.5	71.3	91.1	109.5	68.6	62.0
87.5°	17.2	17.2	34.3	27.7	26.4	21.1	27.7	35.6	47.5	30.4	27.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1277.5	1265.6	1265.6	1263.0	1252.4	1249.8	1240.5	1243.2	1236.6	1230.0
5°	1322.4	1306.5	1306.5	1284.1	1263.0	1260.3	1249.8	1249.8	1239.2	1241.9
7.5°	1384.4	1369.9	1346.1	1326.3	1297.3	1285.4	1265.6	1263.0	1260.3	1255.1
10°	1458.3	1439.8	1416.1	1375.1	1351.4	1329.0	1309.2	1281.4	1274.8	1276.2
12.5°	1558.6	1529.6	1478.1	1442.5	1412.1	1383.1	1354.0	1313.1	1303.9	1307.8
15°	1629.9	1592.9	1541.4	1528.2	1487.3	1451.7	1404.2	1358.0	1342.2	1338.2
17.5°	1687.9	1657.6	1627.2	1607.4	1574.4	1530.9	1464.9	1412.1	1376.5	1372.5
20°	1735.4	1695.8	1689.2	1701.1	1660.2	1631.2	1550.7	1486.0	1438.5	1418.7
22.5°	1764.5	1739.4	1757.9	1768.4	1765.8	1717.0	1633.8	1558.6	1499.2	1480.7
25°	1796.1	1767.1	1833.1	1868.7	1878.0	1797.5	1732.8	1633.8	1575.7	1563.9
27.5°	1812.0	1822.5	1899.1	1974.3	1967.7	1905.7	1818.6	1730.1	1684.0	1662.8
30°	1858.2	1875.3	1991.5	2075.9	2077.2	2016.5	1950.5	1850.2	1798.8	1789.5
32.5°	1941.3	1962.4	2086.5	2176.2	2192.1	2145.9	2079.9	2017.8	1965.1	1943.9
35°	2004.7	2058.8	2198.6	2280.5	2322.7	2295.0	2258.0	2193.4	2137.9	2119.5
37.5°	2095.7	2170.9	2305.5	2416.4	2463.9	2461.3	2433.6	2363.6	2317.4	2301.6
40°	2226.4	2301.6	2424.3	2570.8	2659.2	2655.3	2639.4	2585.3	2516.7	2508.8
42.5°	2364.9	2427.0	2586.6	2754.3	2880.9	2867.7	2825.5	2762.2	2714.7	2704.1
45°	2499.5	2595.9	2743.7	2958.8	3053.8	3086.8	3036.7	2928.5	2874.3	2867.7
47.5°	2668.5	2745.0	2929.8	3122.5	3263.7	3268.9	3183.2	3082.9	2983.9	3005.0
50°	2818.9	2920.5	3107.9	3319.1	3488.0	3427.3	3317.8	3192.4	3121.1	3093.4
52.5°	2979.9	3104.0	3321.7	3536.8	3630.5	3569.8	3391.7	3251.8	3143.6	3131.7
55°	3214.8	3279.5	3564.6	3729.5	3759.9	3631.9	3369.2	3171.3	3031.4	2997.1
57.5°	3453.7	3528.9	3778.4	3920.9	3889.2	3597.6	3224.1	2917.9	2734.5	2685.6
60°	3695.2	3787.6	3997.4	4128.1	3964.4	3361.3	2813.6	2419.0	2205.2	2161.7
62.5°	3964.4	4084.5	4271.9	4318.1	3741.4	2894.1	2233.0	1746.0	1529.6	1457.0
65°	4203.3	4326.0	4557.0	4278.5	3267.6	2159.1	1443.8	997.7	838.0	780.0
67.5°	4399.9	4538.5	4652.0	3786.3	2392.6	1264.3	752.2	525.2	465.9	444.7
70°	4555.7	4786.6	4256.1	2783.3	1367.2	616.3	406.5	345.8	337.8	332.6
72.5°	4419.7	4389.4	3177.9	1606.1	599.2	339.2	294.3	285.1	283.7	285.1
75°	3614.7	3224.1	1900.4	698.1	300.9	245.5	244.1	240.2	246.8	246.8
77.5°	1753.9	1533.5	794.5	299.6	198.0	192.7	199.3	199.3	199.3	199.3
80°	406.5	450.0	283.7	182.1	143.8	143.8	158.4	159.7	153.1	150.4
82.5°	138.6	184.8	155.7	114.8	95.0	106.9	120.1	122.7	101.6	102.9
85°	68.6	108.2	84.5	66.0	48.8	66.0	77.9	81.8	69.9	67.3
87.5°	31.7	47.5	31.7	22.4	17.2	23.8	22.4	18.5	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)