

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: P481391

Luminaire Tested: **IFLD-S-SA2D-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481391  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

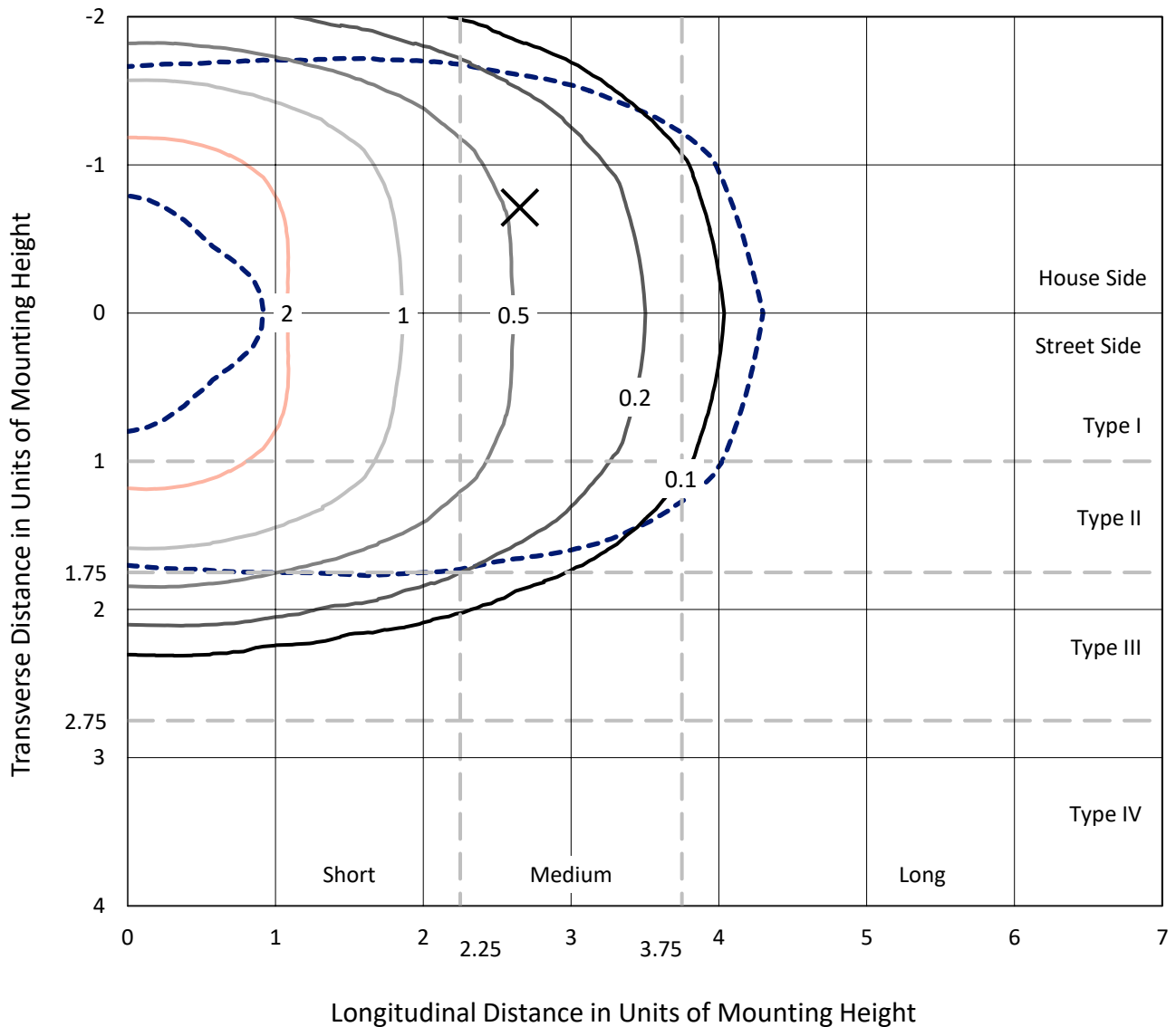
Lumens per Lamp: N/A  
Luminaire Lumens: 11841.8 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9  
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

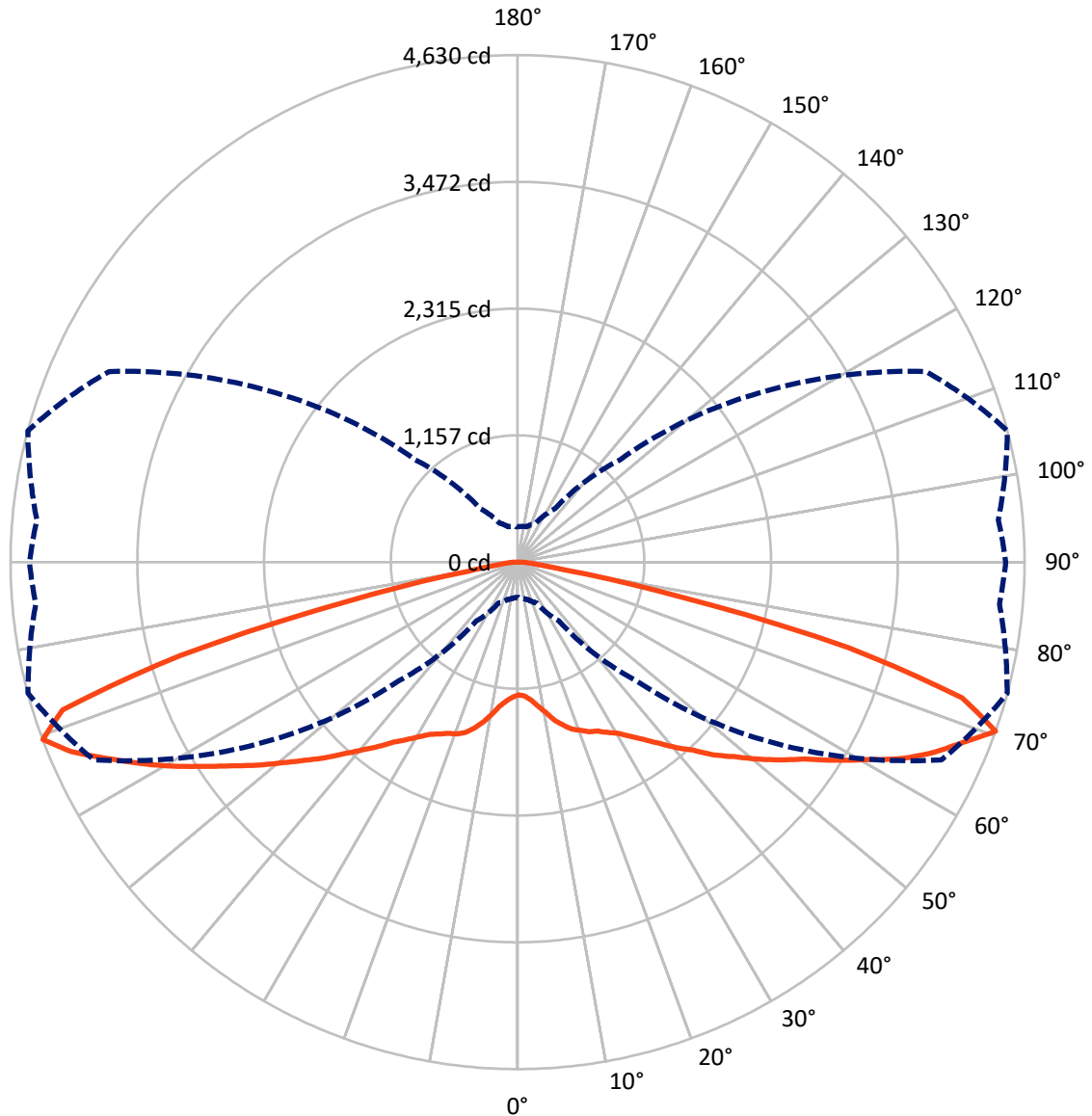
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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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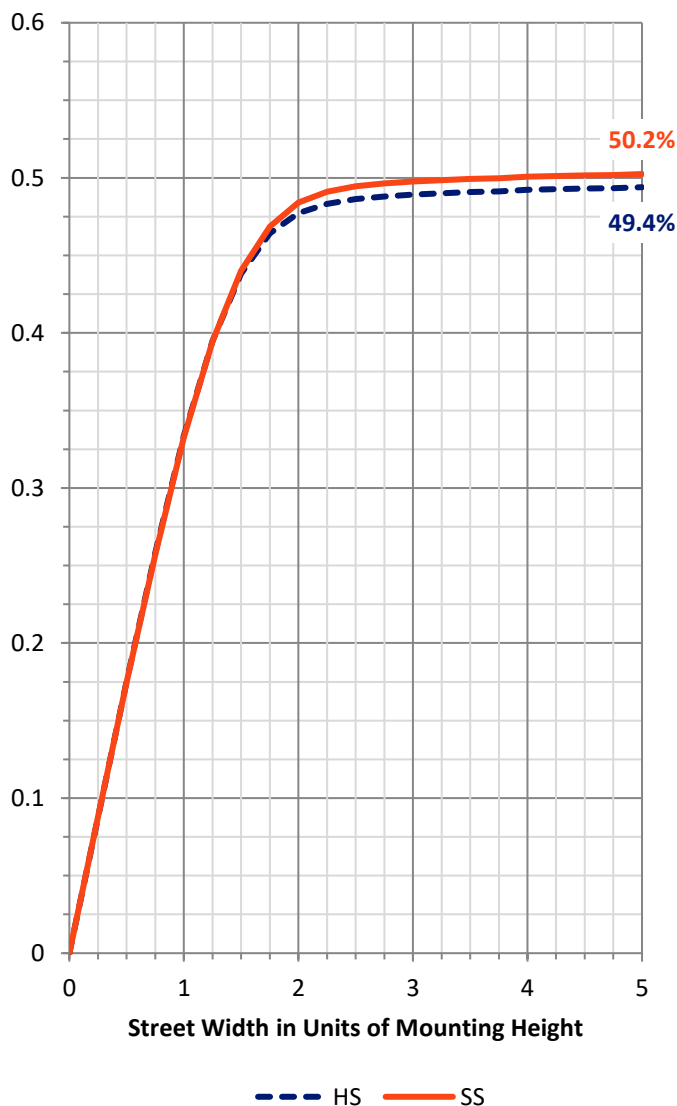
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5878.8	0.0	5878.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	5963.0	0.0	5963.0
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	11841.8	0.0	11841.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	1.0
10°-20°	411.0	3.5
20°-30°	795.7	6.7
30°-40°	1345.9	11.4
40°-50°	2147.2	18.1
50°-60°	2939.0	24.8
60°-70°	2770.2	23.4
70°-80°	1220.3	10.3
80°-90°	91.8	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°	11841.8	100.0
0°-180°	11841.8	100.0

**Coefficient of Utilization**



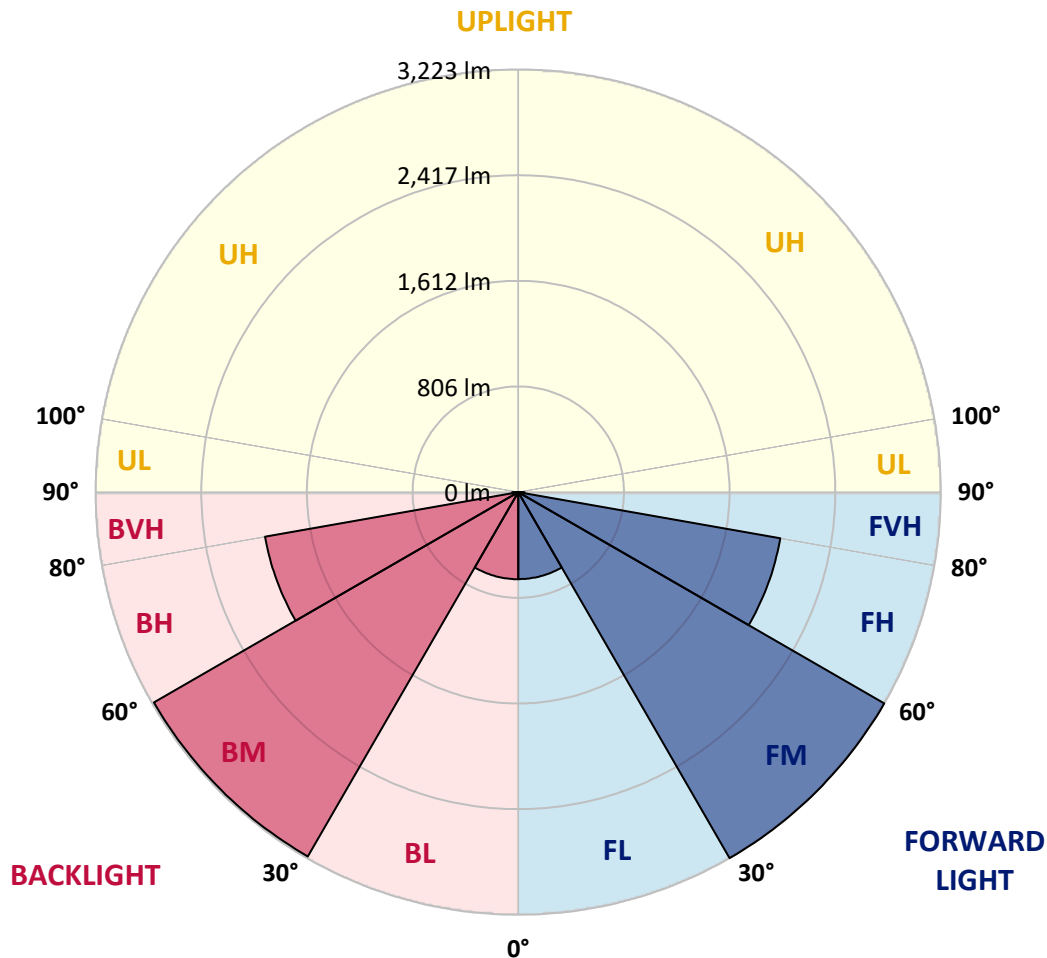
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.3	5.6			
FM (30°-60°)	3223.2	27.2			
FH (60°-80°)	2029.6	17.1			G2/5000
FVH (80°-90°)	46.9	0.4			G1/100
BL (0°-30°)	664.1	5.6	B2/1000		
BM (30°-60°)	3208.8	27.1	B3/5000		
BH (60°-80°)	1961.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	44.9	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°	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6
2.5°	1204.9	1204.9	1203.7	1210.0	1216.4	1219.0	1224.1	1225.4	1233.0	1226.6	1239.4
5°	1201.1	1199.8	1210.0	1225.4	1225.4	1241.9	1252.2	1266.2	1270.0	1277.7	1280.2
7.5°	1227.9	1225.4	1220.2	1236.8	1250.9	1276.4	1290.5	1314.7	1323.6	1333.9	1345.3
10°	1244.5	1244.5	1239.4	1268.8	1281.5	1316.0	1346.6	1370.9	1405.3	1416.8	1418.1
12.5°	1247.1	1250.9	1266.2	1304.5	1340.2	1384.9	1407.9	1453.8	1488.3	1510.0	1517.7
15°	1285.3	1277.7	1294.3	1346.6	1398.9	1438.5	1479.4	1512.5	1562.3	1590.4	1608.3
17.5°	1319.8	1312.2	1342.8	1405.3	1458.9	1520.2	1555.9	1591.7	1627.4	1653.0	1654.2
20°	1374.7	1381.1	1407.9	1475.5	1545.7	1599.3	1640.2	1646.6	1664.4	1701.5	1695.1
22.5°	1442.3	1437.2	1493.4	1567.4	1644.0	1688.7	1711.7	1695.1	1686.1	1725.7	1734.6
25°	1510.0	1525.3	1576.4	1645.3	1737.2	1797.2	1803.6	1757.6	1724.4	1738.5	1734.6
27.5°	1613.4	1615.9	1669.5	1751.2	1844.4	1896.7	1892.9	1827.8	1764.0	1765.3	1767.8
30°	1746.1	1733.4	1792.1	1866.1	1958.0	2005.2	2011.6	1918.4	1832.9	1807.4	1813.8
32.5°	1873.8	1889.1	1940.1	2024.4	2092.0	2118.8	2104.8	2021.8	1910.8	1876.3	1880.2
35°	2037.2	2034.6	2104.8	2176.3	2227.3	2232.4	2221.0	2099.7	1995.0	1950.4	1932.5
37.5°	2212.0	2235.0	2280.9	2339.7	2393.3	2395.8	2333.3	2236.3	2107.4	2033.3	2055.0
40°	2407.3	2432.8	2466.0	2551.5	2591.1	2550.3	2486.5	2355.0	2221.0	2155.9	2166.1
42.5°	2579.6	2591.1	2658.8	2759.6	2778.7	2760.9	2666.4	2506.9	2351.2	2279.7	2284.8
45°	2737.9	2753.2	2841.3	2931.9	2976.6	2946.0	2836.2	2684.3	2503.0	2441.8	2417.5
47.5°	2883.4	2914.0	2999.6	3092.7	3161.7	3164.2	3028.9	2845.1	2653.7	2573.2	2572.0
50°	2981.7	3026.4	3110.6	3216.6	3317.4	3357.0	3221.7	3023.8	2818.3	2732.8	2723.9
52.5°	3035.3	3081.3	3165.5	3330.2	3442.5	3503.8	3439.9	3191.0	3011.1	2921.7	2907.7
55°	2970.2	3000.8	3138.7	3369.7	3543.3	3644.2	3602.0	3422.1	3202.5	3129.8	3142.5
57.5°	2693.2	2757.0	2926.8	3215.3	3540.8	3788.4	3784.6	3640.3	3423.3	3354.4	3357.0
60°	2217.1	2270.7	2480.1	2883.4	3397.8	3847.1	3982.4	3852.2	3671.0	3590.5	3588.0
62.5°	1564.9	1632.5	1875.0	2315.4	2976.6	3765.4	4209.6	4119.0	3913.5	3854.8	3876.5
65°	875.6	916.5	1141.1	1539.4	2268.2	3316.1	4250.5	4396.0	4159.8	4070.5	4074.3
67.5°	468.4	483.8	588.4	808.0	1387.5	2556.7	3838.2	4555.5	4426.6	4272.2	4247.9
70°	321.7	326.8	353.6	413.6	656.1	1529.1	2894.9	4270.9	4627.0	4416.4	4457.2
72.5°	271.9	269.3	275.7	282.1	343.4	684.2	1698.9	3286.8	4367.9	4288.7	4273.4
75°	236.1	234.9	237.4	231.0	238.7	301.2	751.8	2048.6	3197.4	3568.8	3626.3
77.5°	195.3	196.6	197.8	191.5	188.9	199.1	302.5	899.9	1573.8	1737.2	1873.8
80°	148.1	150.6	160.8	154.4	144.2	145.5	178.7	301.2	451.8	409.7	422.5
82.5°	100.8	102.1	123.8	116.2	108.5	98.3	114.9	155.7	176.1	134.0	117.4
85°	71.5	70.2	80.4	74.0	68.9	49.8	68.9	88.1	105.9	66.4	60.0
87.5°	16.6	16.6	33.2	26.8	25.5	20.4	26.8	34.5	46.0	29.4	26.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6
2.5°	1235.6	1224.1	1224.1	1221.5	1211.3	1208.8	1199.8	1202.4	1196.0	1189.6
5°	1279.0	1263.6	1263.6	1241.9	1221.5	1219.0	1208.8	1208.8	1198.6	1201.1
7.5°	1339.0	1324.9	1301.9	1282.8	1254.7	1243.2	1224.1	1221.5	1219.0	1213.9
10°	1410.4	1392.6	1369.6	1330.0	1307.0	1285.3	1266.2	1239.4	1233.0	1234.3
12.5°	1507.4	1479.4	1429.6	1395.1	1365.8	1337.7	1309.6	1270.0	1261.1	1264.9
15°	1576.4	1540.6	1490.8	1478.1	1438.5	1404.1	1358.1	1313.4	1298.1	1294.3
17.5°	1632.5	1603.2	1573.8	1554.7	1522.8	1480.6	1416.8	1365.8	1331.3	1327.5
20°	1678.5	1640.2	1633.8	1645.3	1605.7	1577.6	1499.8	1437.2	1391.3	1372.1
22.5°	1706.6	1682.3	1700.2	1710.4	1707.8	1660.6	1580.2	1507.4	1450.0	1432.1
25°	1737.2	1709.1	1772.9	1807.4	1816.3	1738.5	1675.9	1580.2	1524.0	1512.5
27.5°	1752.5	1762.7	1836.8	1909.5	1903.1	1843.1	1758.9	1673.4	1628.7	1608.3
30°	1797.2	1813.8	1926.1	2007.8	2009.1	1950.4	1886.5	1789.5	1739.7	1730.8
32.5°	1877.6	1898.0	2018.0	2104.8	2120.1	2075.4	2011.6	1951.6	1900.6	1880.2
35°	1938.9	1991.2	2126.5	2205.6	2246.5	2219.7	2183.9	2121.4	2067.8	2049.9
37.5°	2026.9	2099.7	2229.9	2337.1	2383.1	2380.5	2353.7	2286.1	2241.4	2226.1
40°	2153.3	2226.1	2344.8	2486.5	2572.0	2568.1	2552.8	2500.5	2434.1	2426.5
42.5°	2287.3	2347.3	2501.8	2663.9	2786.4	2773.6	2732.8	2671.5	2625.6	2615.4
45°	2417.5	2510.7	2653.7	2861.7	2953.6	2985.5	2937.0	2832.4	2780.0	2773.6
47.5°	2580.9	2654.9	2833.6	3020.0	3156.6	3161.7	3078.7	2981.7	2886.0	2906.4
50°	2726.4	2824.7	3006.0	3210.2	3373.6	3314.8	3208.9	3087.6	3018.7	2991.9
52.5°	2882.1	3002.1	3212.7	3420.8	3511.4	3452.7	3280.4	3145.1	3040.4	3028.9
55°	3109.3	3171.9	3447.6	3607.1	3636.5	3512.7	3258.7	3067.2	2931.9	2898.7
57.5°	3340.4	3413.1	3654.4	3792.2	3761.6	3479.5	3118.3	2822.1	2644.7	2597.5
60°	3574.0	3663.3	3866.3	3992.6	3834.3	3251.0	2721.3	2339.7	2132.9	2090.8
62.5°	3834.3	3950.5	4131.7	4176.4	3618.6	2799.2	2159.7	1688.7	1479.4	1409.2
65°	4065.4	4184.1	4407.5	4138.1	3160.4	2088.2	1396.4	965.0	810.5	754.4
67.5°	4255.6	4389.6	4499.4	3662.0	2314.1	1222.8	727.6	508.0	450.6	430.2
70°	4406.2	4629.5	4116.4	2692.0	1322.4	596.1	393.1	334.4	326.8	321.7
72.5°	4274.7	4245.3	3073.6	1553.4	579.5	328.0	284.6	275.7	274.4	275.7
75°	3496.1	3118.3	1838.0	675.2	291.0	237.4	236.1	232.3	238.7	238.7
77.5°	1696.4	1483.2	768.4	289.7	191.5	186.4	192.7	192.7	192.7	192.7
80°	393.1	435.3	274.4	176.1	139.1	139.1	153.2	154.4	148.1	145.5
82.5°	134.0	178.7	150.6	111.0	91.9	103.4	116.2	118.7	98.3	99.6
85°	66.4	104.7	81.7	63.8	47.2	63.8	75.3	79.1	67.6	65.1
87.5°	30.6	46.0	30.6	21.7	16.6	23.0	21.7	17.9	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)