

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: P479282

Luminaire Tested: **IFLD-S-SA2A-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479282  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

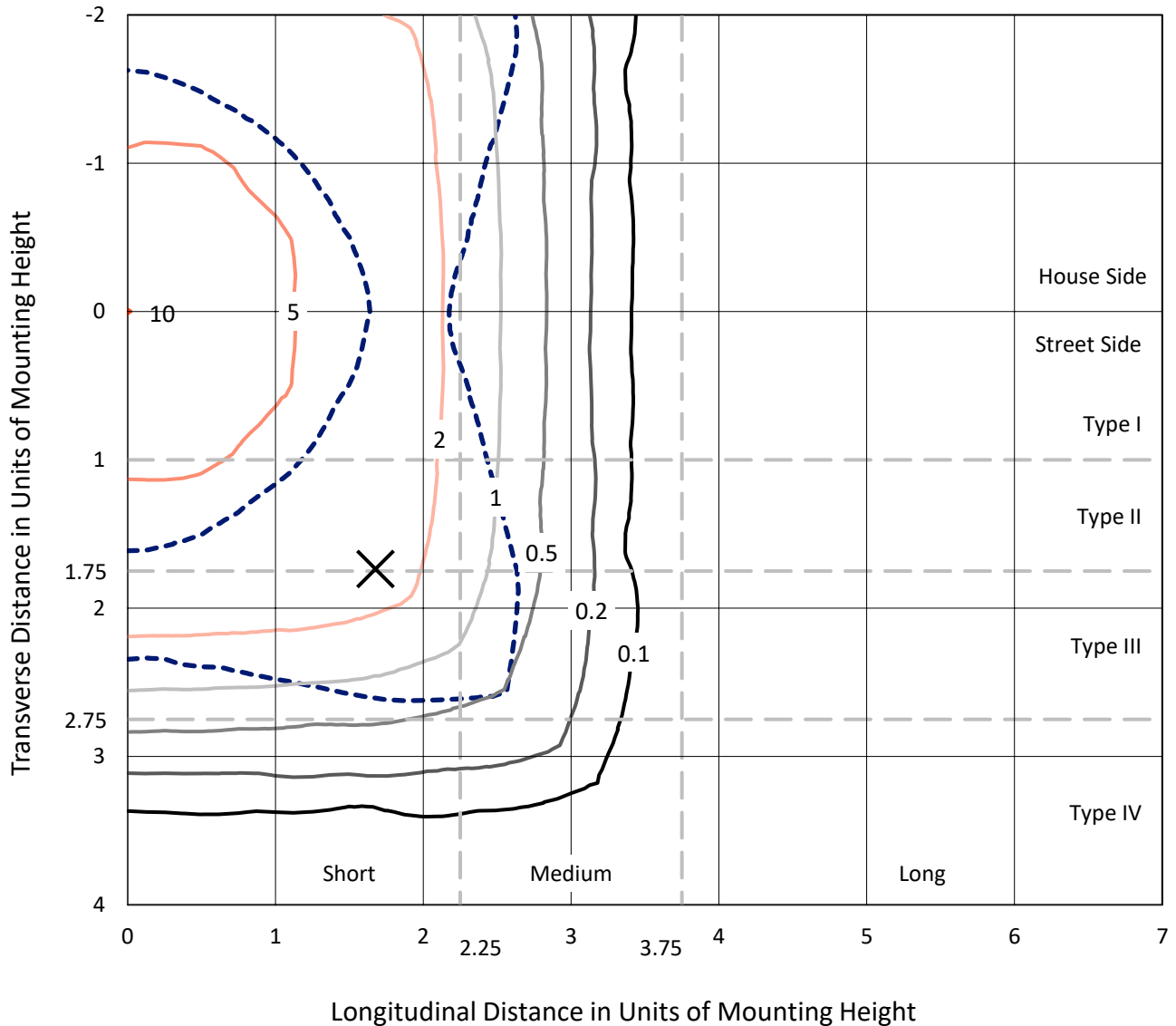
Lumens per Lamp: N/A  
Luminaire Lumens: 9191.4 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 63.8  
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

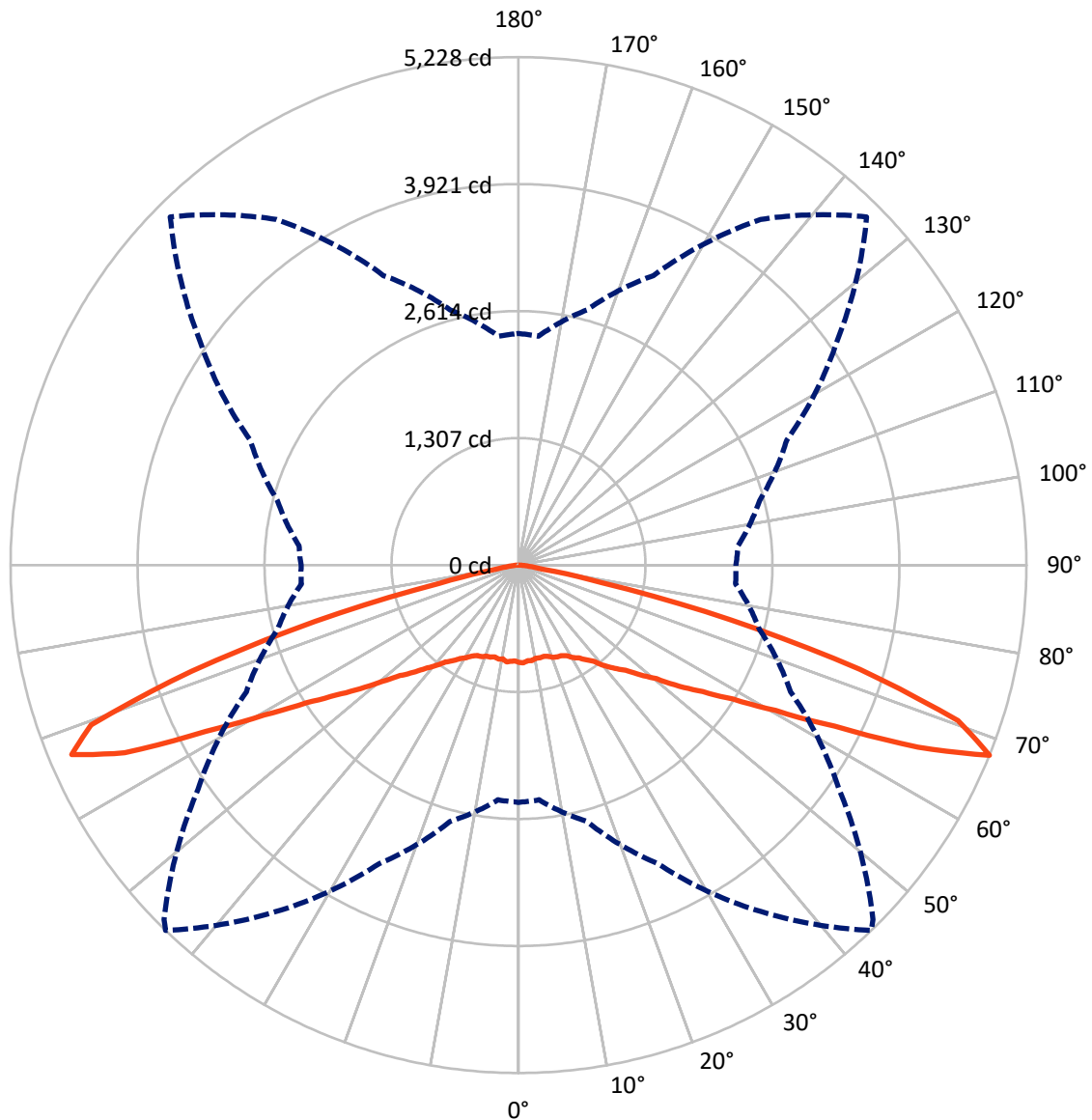
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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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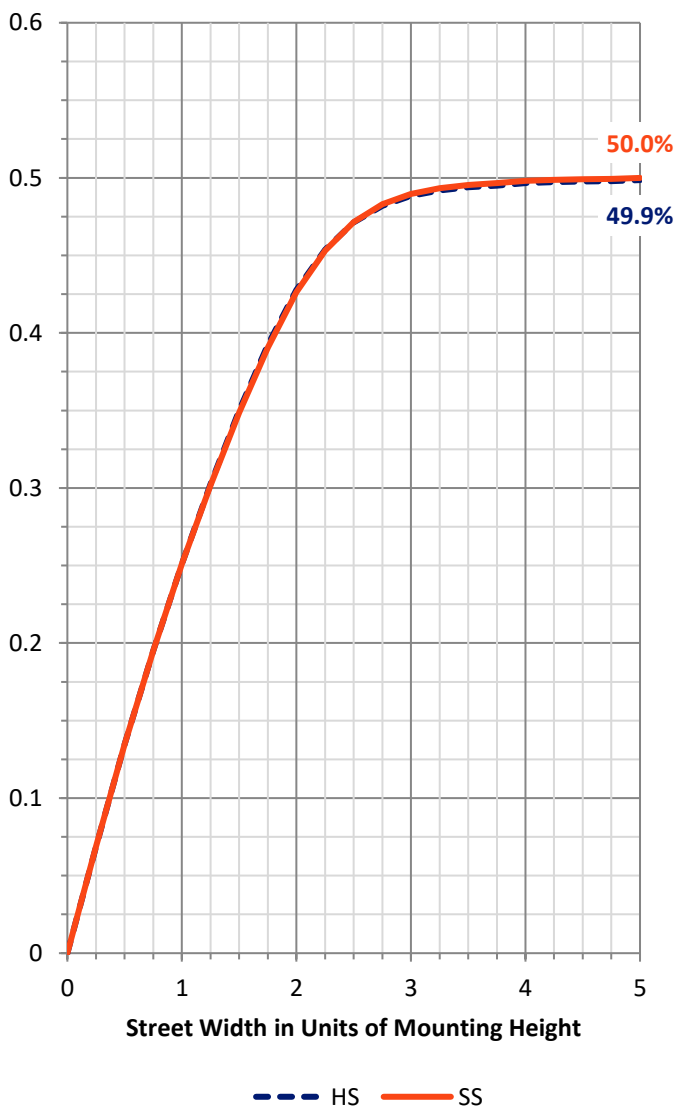
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4583.9	0.0	4583.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	4607.5	0.0	4607.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	9191.4	0.0	9191.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	1.0
10°-20°	277.6	3.0
20°-30°	472.0	5.1
30°-40°	748.4	8.1
40°-50°	1220.3	13.3
50°-60°	2084.2	22.7
60°-70°	3170.0	34.5
70°-80°	1068.5	11.6
80°-90°	55.5	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°	9191.4	100.0
0°-180°	9191.4	100.0

**Coefficient of Utilization**



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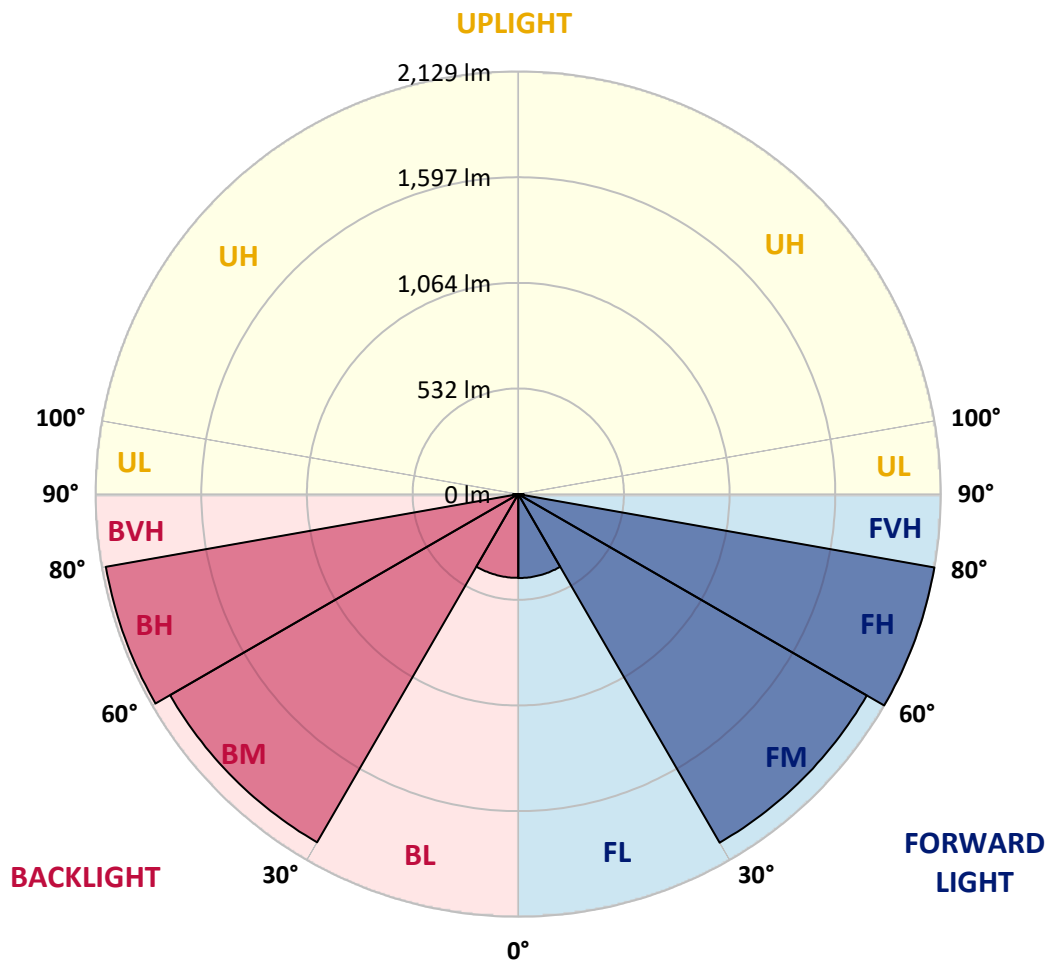
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.7	4.6			
FM (30°-60°)	2027.5	22.1			
FH (60°-80°)	2128.8	23.2			G2/5000
FVH (80°-90°)	28.4	0.3			G1/100
BL (0°-30°)	421.9	4.6	B1/500		
BM (30°-60°)	2025.3	22.0	B2/2500		
BH (60°-80°)	2109.6	23.0	B3/2500		G2/5000
BVH (80°-90°)	27.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	980.9	992.5	1000.9	999.8	1003.0	1006.1	1001.9	1008.2	1004.0	1011.3	1015.5
5°	999.8	996.7	997.7	991.4	1006.1	989.3	989.3	997.7	1008.2	995.6	1003.0
7.5°	988.3	986.2	980.9	990.4	993.5	993.5	1001.9	986.2	1004.0	1008.2	1009.2
10°	975.7	964.1	979.9	989.3	991.4	974.6	982.0	986.2	980.9	986.2	989.3
12.5°	965.2	971.5	971.5	971.5	968.3	979.9	987.2	986.2	975.7	985.1	968.3
15°	964.1	961.0	970.4	978.8	973.6	975.7	978.8	988.3	968.3	972.5	972.5
17.5°	963.1	967.3	970.4	969.4	987.2	987.2	984.1	977.8	993.5	985.1	973.6
20°	967.3	964.1	972.5	975.7	988.3	1013.4	1004.0	998.8	990.4	979.9	979.9
22.5°	972.5	970.4	982.0	995.6	1019.7	1026.0	1025.0	1018.7	1004.0	991.4	989.3
25°	991.4	972.5	985.1	1011.3	1019.7	1032.3	1040.7	1032.3	1012.4	1015.5	996.7
27.5°	1019.7	1016.6	1033.4	1051.2	1043.9	1055.4	1048.1	1054.4	1055.4	1039.7	1020.8
30°	1053.3	1043.9	1054.4	1089.0	1092.1	1104.7	1092.1	1075.3	1080.6	1067.0	1057.5
32.5°	1101.6	1098.4	1118.4	1141.4	1145.6	1139.3	1133.0	1142.5	1120.5	1110.0	1093.2
35°	1133.0	1146.7	1170.8	1188.6	1202.3	1196.0	1199.1	1189.7	1194.9	1172.9	1165.6
37.5°	1226.4	1221.2	1226.4	1256.8	1260.0	1256.8	1260.0	1270.5	1263.1	1244.3	1225.4
40°	1314.5	1306.1	1318.7	1353.4	1351.3	1361.8	1340.8	1352.3	1352.3	1316.6	1309.3
42.5°	1380.6	1409.0	1423.6	1452.0	1462.5	1453.0	1448.8	1450.9	1474.0	1432.0	1416.3
45°	1517.0	1516.0	1560.0	1575.8	1546.4	1544.3	1535.9	1561.1	1576.8	1552.7	1546.4
47.5°	1664.9	1672.3	1697.5	1703.8	1721.6	1689.1	1689.1	1692.2	1747.8	1691.2	1661.8
50°	1798.2	1807.6	1858.0	1907.3	1873.7	1839.1	1852.7	1869.5	1899.9	1846.4	1821.3
52.5°	1959.7	2011.2	2044.7	2071.0	2095.1	2071.0	2039.5	2058.4	2118.2	2046.8	2015.4
55°	2192.7	2233.6	2265.0	2313.3	2333.2	2300.7	2297.6	2295.5	2329.0	2253.5	2210.5
57.5°	2452.8	2436.0	2486.4	2560.9	2633.3	2601.8	2592.4	2594.5	2602.9	2495.8	2463.3
60°	2776.0	2794.8	2854.6	2919.7	2996.3	3040.3	2978.4	2942.8	2950.1	2804.3	2753.9
62.5°	2960.6	3002.6	3137.9	3361.4	3515.6	3653.0	3662.5	3430.6	3275.3	2992.1	2778.1
65°	2871.4	2865.1	3120.1	3533.4	4117.8	4517.5	4457.7	3895.4	3353.0	2902.9	2615.4
67.5°	2442.3	2425.6	2734.0	3389.7	4354.9	5227.7	5159.5	4026.5	3090.7	2568.2	2243.0
70°	1573.7	1569.5	1904.1	2584.0	3888.0	4799.7	4824.9	3657.2	2515.8	1881.1	1559.0
72.5°	571.8	606.4	800.5	1389.0	2640.6	3671.9	3687.6	2707.8	1446.7	869.7	641.0
75°	210.9	217.2	252.8	451.1	1203.3	2254.5	2313.3	1313.5	514.1	283.3	230.8
77.5°	121.7	122.7	135.3	167.9	356.7	880.2	915.9	398.7	199.3	151.1	139.5
80°	82.9	81.8	95.5	109.1	142.7	249.7	265.4	166.8	125.9	104.9	88.1
82.5°	48.3	51.4	70.3	77.6	87.1	110.2	112.3	103.9	94.4	77.6	57.7
85°	29.4	24.1	38.8	43.0	50.4	49.3	49.3	56.7	60.8	54.6	32.5
87.5°	7.3	7.3	9.4	10.5	13.6	10.5	11.5	22.0	29.4	27.3	16.8
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°	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0	1004.0
2.5°	1006.1	1003.0	1005.1	1016.6	1009.2	987.2	992.5	1004.0	994.6	989.3	988.3
5°	1001.9	1008.2	1000.9	1003.0	1010.3	992.5	995.6	1010.3	1004.0	1006.1	994.6
7.5°	1003.0	1006.1	999.8	990.4	990.4	1005.1	996.7	998.8	989.3	1005.1	984.1
10°	996.7	988.3	980.9	986.2	984.1	979.9	976.7	983.0	973.6	987.2	972.5
12.5°	977.8	979.9	977.8	975.7	979.9	990.4	973.6	975.7	961.0	963.1	970.4
15°	970.4	976.7	974.6	986.2	991.4	975.7	988.3	975.7	964.1	957.8	969.4
17.5°	973.6	983.0	979.9	988.3	978.8	990.4	992.5	987.2	973.6	968.3	973.6
20°	976.7	973.6	977.8	992.5	1006.1	994.6	994.6	991.4	978.8	971.5	971.5
22.5°	984.1	978.8	985.1	996.7	1000.9	1018.7	1003.0	995.6	974.6	955.7	973.6
25°	998.8	1001.9	1006.1	1001.9	1025.0	1022.9	1020.8	1015.5	983.0	984.1	980.9
27.5°	1027.1	1009.2	1014.5	1039.7	1042.8	1051.2	1040.7	1050.2	1015.5	1016.6	995.6
30°	1061.7	1042.8	1059.6	1081.6	1080.6	1096.3	1091.1	1093.2	1069.0	1055.4	1027.1
32.5°	1099.5	1097.4	1107.9	1121.5	1126.7	1135.1	1134.1	1134.1	1119.4	1083.7	1089.0
35°	1141.4	1156.1	1168.7	1183.4	1185.5	1196.0	1181.3	1183.4	1168.7	1142.5	1150.9
37.5°	1224.3	1223.3	1236.9	1254.7	1256.8	1248.4	1260.0	1254.7	1234.8	1217.0	1203.3
40°	1320.8	1299.9	1312.4	1354.4	1357.6	1342.9	1341.8	1340.8	1326.1	1287.3	1278.9
42.5°	1404.8	1432.0	1429.9	1443.6	1434.1	1426.8	1453.0	1438.3	1426.8	1385.9	1378.5
45°	1512.8	1521.2	1548.5	1592.6	1547.4	1547.4	1565.3	1553.7	1547.4	1517.0	1488.7
47.5°	1647.1	1654.5	1709.0	1712.2	1682.8	1662.8	1718.5	1720.5	1694.3	1671.2	1636.6
50°	1804.5	1807.6	1856.9	1907.3	1874.8	1837.0	1893.7	1915.7	1856.9	1825.5	1782.4
52.5°	1977.6	1968.1	2009.1	2103.5	2072.0	2060.5	2121.3	2126.6	2046.8	1997.5	2009.1
55°	2176.9	2164.3	2275.5	2339.5	2319.6	2298.6	2325.9	2338.5	2274.5	2193.7	2222.0
57.5°	2435.0	2441.3	2496.9	2559.8	2592.4	2597.6	2610.2	2597.6	2532.6	2450.7	2424.5
60°	2693.1	2712.0	2820.0	2938.6	2949.1	3041.4	3024.6	2961.7	2869.3	2752.9	2758.1
62.5°	2788.5	2772.8	2947.0	3236.5	3483.1	3652.0	3577.5	3354.0	3140.0	2928.1	2943.8
65°	2596.6	2635.4	2872.5	3325.7	3860.7	4529.0	4132.5	3514.5	3082.3	2808.5	2778.1
67.5°	2237.8	2267.1	2568.2	3046.6	3996.1	5068.3	4342.3	3287.9	2718.3	2363.7	2382.5
70°	1559.0	1573.7	1868.5	2495.8	3623.6	4782.9	3917.4	2525.2	1876.9	1496.0	1517.0
72.5°	627.4	663.0	857.1	1503.4	2675.2	3634.1	2637.5	1325.0	778.4	579.1	525.6
75°	231.9	232.9	273.8	517.2	1270.5	2283.9	1189.7	425.9	248.6	203.5	194.1
77.5°	134.3	133.2	142.7	186.7	368.2	891.7	337.8	166.8	135.3	121.7	116.5
80°	83.9	82.9	97.6	123.8	161.6	244.4	142.7	103.9	91.3	78.7	78.7
82.5°	53.5	54.6	76.6	91.3	98.6	108.1	82.9	73.4	68.2	45.1	44.1
85°	34.6	31.5	53.5	60.8	54.6	48.3	46.2	38.8	35.7	22.0	24.1
87.5°	15.7	16.8	27.3	30.4	19.9	11.5	11.5	8.4	8.4	5.2	5.2
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)