

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: P478776

Luminaire Tested: **IFLD-S-SA2B-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478776  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

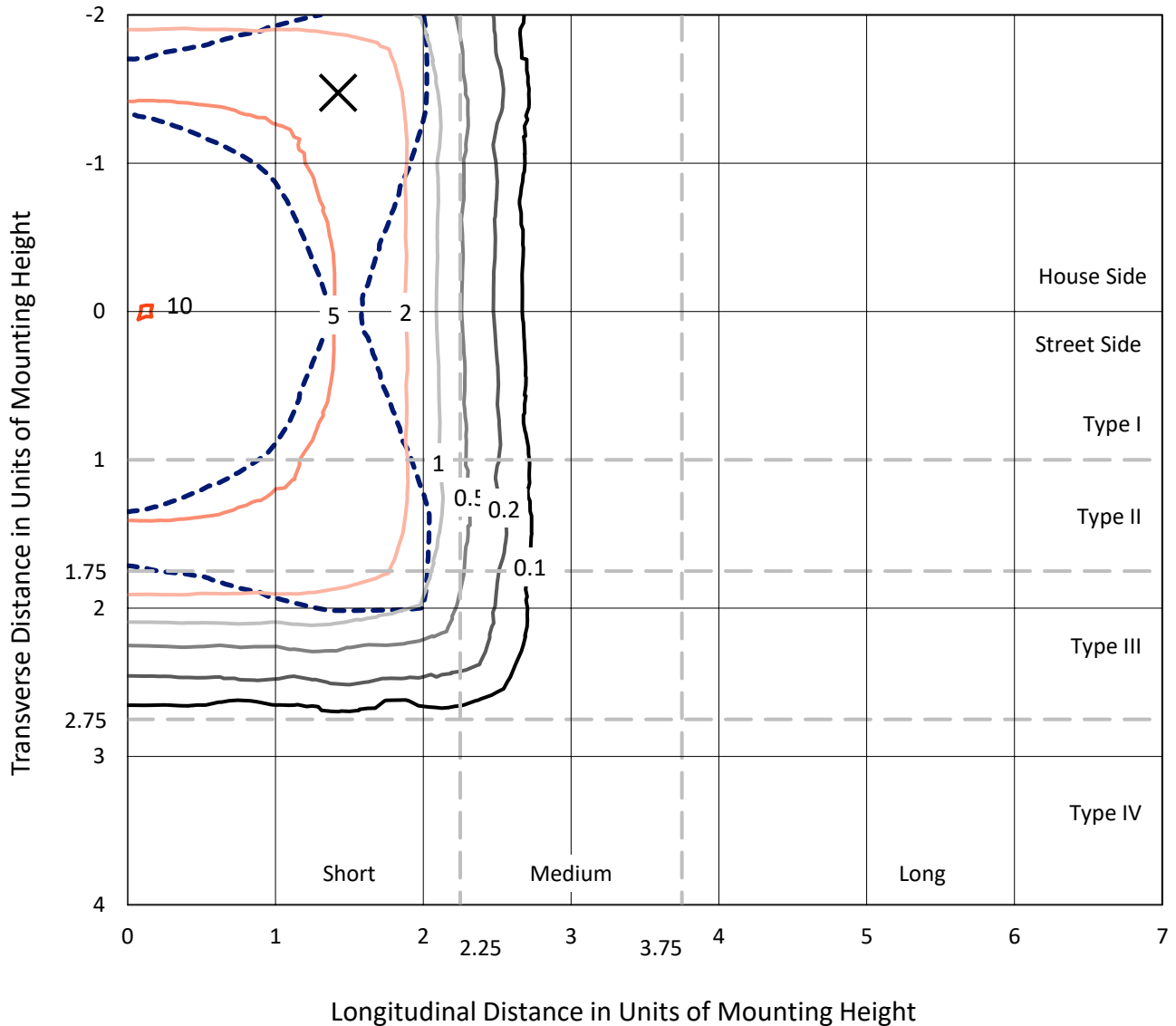
Lumens per Lamp: N/A  
Luminaire Lumens: 8388.2 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4  
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

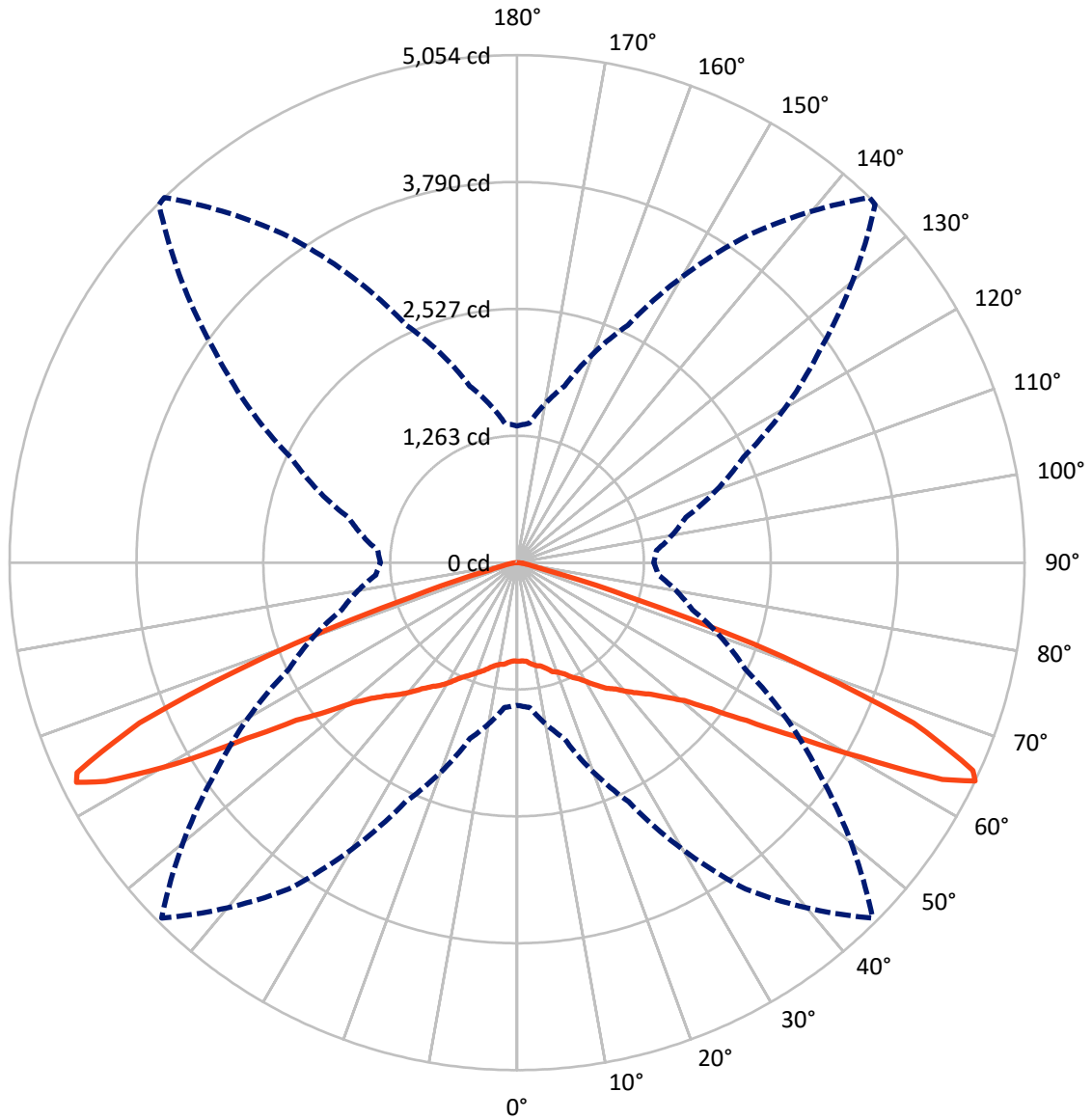
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4198.1	0.0	4198.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4190.1	0.0	4190.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8388.2	0.0	8388.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	1.2
10°-20°	311.0	3.7
20°-30°	584.5	7.0
30°-40°	964.0	11.5
40°-50°	1507.6	18.0
50°-60°	2435.9	29.0
60°-70°	2193.4	26.1
70°-80°	259.8	3.1
80°-90°	35.6	0.4
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°	8388.2	100.0
0°-180°	8388.2	100.0

**Coefficient of Utilization**



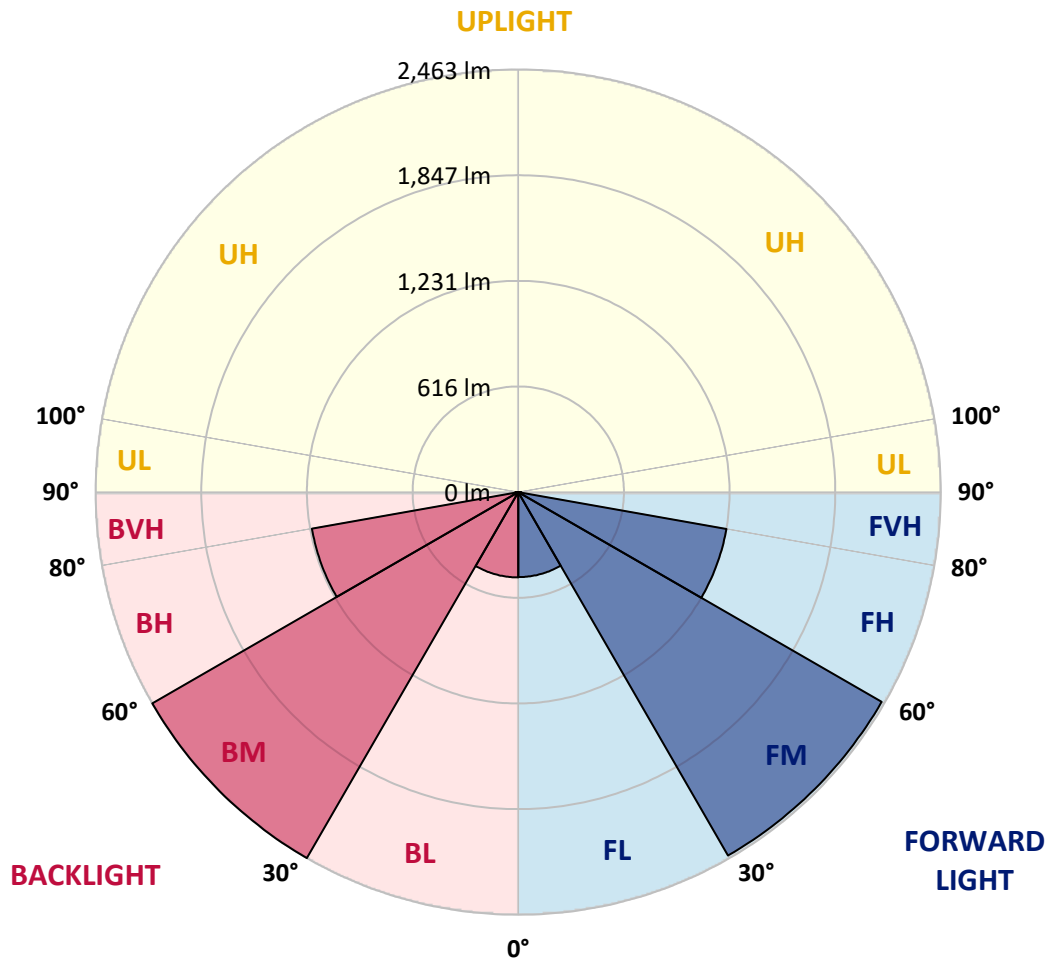
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.1	5.9			
FM (30°-60°)	2444.9	29.1			
FH (60°-80°)	1231.9	14.7			G1/1800
FVH (80°-90°)	18.2	0.2			G1/100
BL (0°-30°)	497.0	5.9	B1/500		
BM (30°-60°)	2462.6	29.4	B2/2500		
BH (60°-80°)	1221.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1
2.5°	970.5	972.5	989.8	983.1	988.8	978.2	985.9	1002.3	983.1	997.5	1002.3
5°	981.1	984.0	984.0	990.7	994.6	992.7	997.5	990.7	1009.0	1001.3	1012.9
7.5°	1019.6	1014.8	1007.1	1012.9	1013.8	1018.6	1023.5	1032.1	1029.2	1022.5	1034.0
10°	1026.3	1022.5	1034.0	1035.0	1030.2	1026.3	1031.1	1031.1	1039.8	1041.7	1041.7
12.5°	1037.9	1041.7	1040.8	1048.5	1049.4	1046.5	1054.2	1068.7	1064.8	1067.7	1061.0
15°	1082.1	1077.3	1076.4	1084.1	1096.6	1078.3	1091.7	1090.8	1086.9	1092.7	1077.3
17.5°	1120.6	1105.2	1111.9	1124.5	1119.6	1123.5	1140.8	1125.4	1129.3	1122.5	1117.7
20°	1154.3	1141.8	1142.7	1147.5	1147.5	1159.1	1165.8	1160.0	1156.2	1155.2	1157.2
22.5°	1191.8	1177.4	1178.3	1198.5	1205.2	1201.4	1196.6	1206.2	1208.1	1200.4	1209.1
25°	1219.7	1235.1	1239.9	1249.5	1235.1	1245.6	1241.8	1260.1	1271.6	1256.2	1266.8
27.5°	1292.8	1286.0	1298.6	1297.6	1309.1	1298.6	1305.3	1311.1	1315.9	1316.8	1312.0
30°	1358.2	1361.1	1348.6	1382.2	1355.3	1372.6	1384.2	1387.0	1392.8	1392.8	1378.4
32.5°	1427.4	1421.7	1441.9	1434.2	1429.4	1442.8	1430.3	1469.8	1446.7	1460.1	1443.8
35°	1505.4	1505.4	1513.1	1534.2	1505.4	1496.7	1519.8	1536.1	1536.1	1512.1	1517.9
37.5°	1592.9	1585.2	1594.8	1621.7	1599.6	1570.8	1613.1	1619.8	1615.0	1608.3	1596.7
40°	1654.5	1652.5	1671.8	1707.4	1675.6	1669.8	1677.5	1695.8	1701.6	1708.3	1692.9
42.5°	1758.3	1767.0	1822.8	1814.1	1788.2	1768.0	1766.0	1834.3	1818.0	1800.7	1792.0
45°	1912.2	1904.5	1933.4	1934.4	1900.7	1856.4	1866.1	1928.6	1956.5	1918.0	1932.4
47.5°	2034.4	2038.2	2058.4	2099.8	2021.9	1975.7	2011.3	2112.3	2103.7	2089.2	2102.7
50°	2197.9	2215.2	2278.7	2264.3	2195.0	2138.3	2216.2	2311.4	2322.0	2269.1	2259.5
52.5°	2424.0	2450.9	2485.5	2497.1	2430.7	2410.5	2415.3	2533.6	2507.6	2456.7	2424.0
55°	2622.1	2634.6	2698.1	2793.3	2788.5	2691.4	2747.2	2791.4	2685.6	2580.8	2589.4
57.5°	2706.8	2712.5	2889.5	3080.0	3193.5	3215.6	3152.1	3003.0	2751.0	2549.0	2536.5
60°	2496.1	2550.9	2764.5	3194.4	3712.9	3968.8	3546.5	3027.1	2598.1	2352.8	2334.5
62.5°	1995.0	1997.8	2315.3	2967.4	4036.1	4706.5	3697.5	2801.0	2190.2	1912.2	1839.1
64°	1420.7	1447.6	1812.2	2626.9	3968.8	5006.6	3679.2	2505.7	1805.5	1411.1	1360.1
65°	1019.6	1057.1	1409.2	2280.6	3811.0	4971.1	3624.4	2251.8	1460.1	1077.3	1025.4
67.5°	375.1	390.5	553.1	1140.8	2736.6	4236.2	2872.2	1238.0	641.6	456.9	410.7
70°	174.1	175.1	204.9	377.1	1196.6	2832.8	1370.7	464.6	241.4	191.4	177.9
72.5°	127.9	130.8	143.3	174.1	352.1	1199.5	450.2	190.5	141.4	125.0	122.2
75°	103.9	105.8	109.7	126.0	162.6	321.3	182.8	131.8	112.5	101.0	97.2
77.5°	79.8	79.8	88.5	96.2	107.7	150.1	121.2	104.8	91.4	79.8	77.0
80°	57.7	58.7	69.3	75.0	73.1	99.1	87.5	86.6	75.0	62.5	57.7
82.5°	33.7	36.6	50.0	53.9	51.9	58.7	63.5	67.3	58.7	43.3	39.4
85°	19.2	20.2	28.9	29.8	29.8	27.9	36.6	40.4	39.4	26.9	24.0
87.5°	5.8	5.8	7.7	7.7	8.7	9.6	14.4	17.3	19.2	13.5	12.5
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°	136°	145°	155°	165°	175°	180°
0°	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1	982.1
2.5°	997.5	983.1	984.0	987.9	975.4	980.2	994.6	984.0	981.1	975.4	972.5
5°	992.7	1008.1	1002.3	1004.2	1001.3	987.9	985.9	994.6	999.4	990.7	1008.1
7.5°	1026.3	1019.6	1011.9	1014.8	1008.1	1019.6	1027.3	1010.0	1018.6	1013.8	1004.2
10°	1045.6	1033.1	1038.8	1036.9	1032.1	1043.7	1036.0	1034.0	1026.3	1015.8	1031.1
12.5°	1052.3	1066.7	1076.4	1060.0	1062.9	1057.1	1052.3	1052.3	1043.7	1040.8	1043.7
15°	1082.1	1094.6	1090.8	1103.3	1086.9	1092.7	1098.5	1084.1	1091.7	1070.6	1086.9
17.5°	1137.0	1126.4	1139.8	1123.5	1129.3	1140.8	1122.5	1122.5	1128.3	1116.8	1102.3
20°	1171.6	1166.8	1162.0	1162.9	1153.3	1163.9	1158.1	1155.2	1146.6	1150.4	1158.1
22.5°	1204.3	1197.6	1199.5	1202.4	1209.1	1204.3	1201.4	1204.3	1183.1	1202.4	1175.4
25°	1244.7	1263.0	1257.2	1269.7	1250.5	1263.0	1262.0	1243.7	1255.3	1247.6	1241.8
27.5°	1312.0	1302.4	1311.1	1295.7	1309.1	1310.1	1298.6	1329.3	1315.9	1313.9	1310.1
30°	1398.6	1391.9	1386.1	1377.4	1388.0	1379.4	1389.0	1391.9	1379.4	1369.7	1351.5
32.5°	1447.6	1465.9	1472.7	1451.5	1452.5	1457.3	1448.6	1440.0	1447.6	1450.5	1447.6
35°	1516.9	1534.2	1538.1	1521.7	1513.1	1537.1	1519.8	1548.6	1523.6	1524.6	1498.6
37.5°	1597.7	1602.5	1635.2	1616.9	1609.2	1597.7	1629.4	1625.6	1631.4	1585.2	1608.3
40°	1689.1	1706.4	1724.7	1678.5	1677.5	1688.1	1686.2	1708.3	1697.7	1691.0	1674.7
42.5°	1789.1	1825.7	1828.6	1797.8	1778.5	1776.6	1786.2	1835.3	1836.2	1792.0	1772.8
45°	1921.9	1962.3	1951.7	1892.0	1870.9	1868.0	1915.1	1936.3	1954.6	1937.2	1920.9
47.5°	2087.3	2114.2	2106.5	2051.7	1983.4	2002.7	2048.8	2115.2	2096.0	2072.9	2053.6
50°	2264.3	2296.0	2279.7	2224.9	2159.4	2159.4	2216.2	2300.8	2295.1	2249.9	2232.5
52.5°	2460.5	2506.7	2544.2	2466.3	2411.5	2420.1	2509.6	2540.4	2525.9	2494.2	2479.8
55°	2606.7	2695.2	2772.2	2776.0	2778.9	2777.9	2801.0	2831.8	2728.9	2677.9	2626.0
57.5°	2571.1	2738.5	3002.1	3181.0	3233.9	3261.8	3254.1	3111.7	2868.4	2701.0	2718.3
60°	2317.2	2590.4	3015.5	3589.8	3974.5	3936.1	3795.6	3232.9	2791.4	2508.6	2473.0
62.5°	1848.8	2177.7	2789.5	3705.2	4765.2	4753.7	4018.8	2953.0	2325.9	1968.0	1945.9
64°	1392.8	1739.1	2488.4	3675.4	5042.2	5053.8	3962.0	2608.6	1819.9	1392.8	1359.2
65°	1065.8	1387.0	2193.1	3613.8	4982.6	4989.3	3804.3	2252.7	1383.2	988.8	952.3
67.5°	424.2	590.6	1189.9	2740.4	4278.5	4260.2	2714.5	1089.8	529.0	344.4	337.6
70°	180.8	225.1	417.5	1298.6	2864.5	2811.6	1168.7	354.0	196.2	164.5	163.5
72.5°	124.1	137.6	178.9	401.1	1190.8	1162.9	332.8	164.5	133.7	123.1	123.1
75°	100.0	109.7	129.9	168.3	315.5	304.0	156.8	121.2	106.8	99.1	98.1
77.5°	77.9	87.5	102.0	116.4	144.3	143.3	104.8	91.4	82.7	77.0	75.0
80°	61.6	71.2	80.8	82.7	94.3	92.3	71.2	72.1	67.3	55.8	54.8
82.5°	42.3	57.7	64.4	58.7	55.8	55.8	51.0	51.0	47.1	34.6	31.7
85°	26.0	38.5	40.4	34.6	26.0	26.0	27.9	26.9	25.0	18.3	17.3
87.5°	13.5	18.3	16.4	13.5	8.7	8.7	7.7	5.8	5.8	4.8	4.8
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)