

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: P479088

Luminaire Tested: **IFLD-S-SA2B-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479088  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

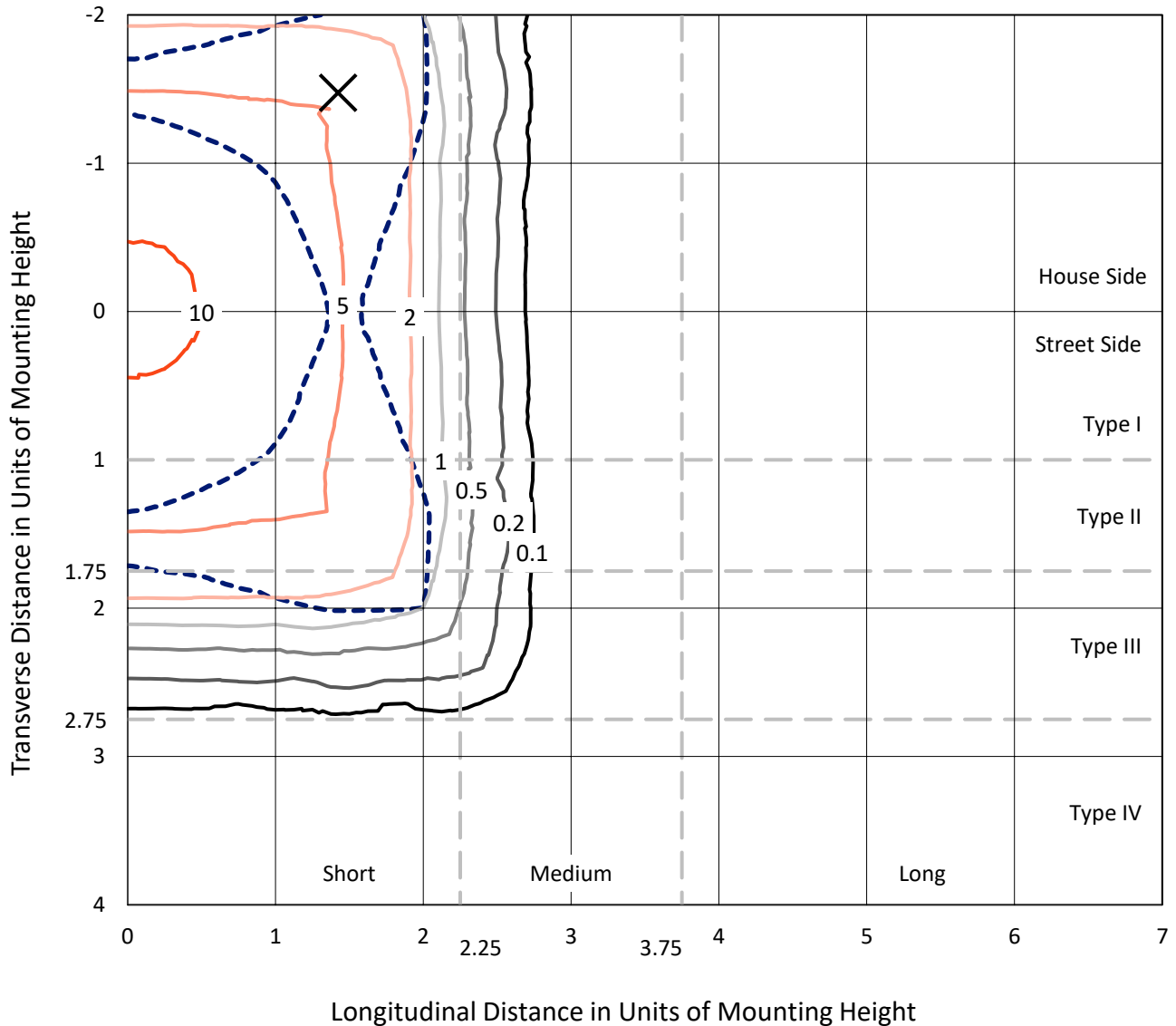
Lumens per Lamp: N/A  
Luminaire Lumens: 9048.7 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

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

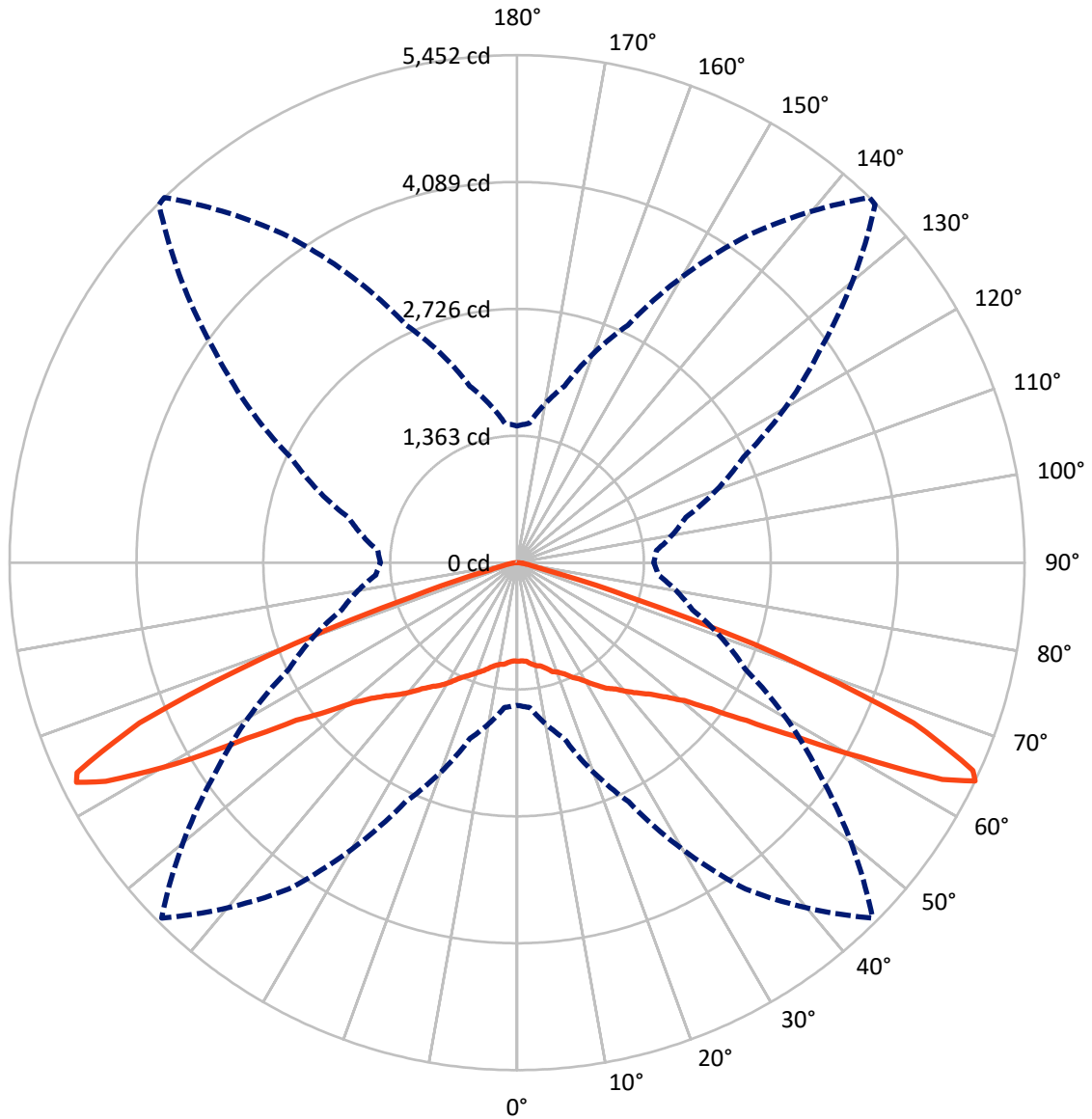
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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	4528.7	0.0	4528.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4520.1	0.0	4520.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9048.7	0.0	9048.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	1.2
10°-20°	335.5	3.7
20°-30°	630.5	7.0
30°-40°	1039.9	11.5
40°-50°	1626.3	18.0
50°-60°	2627.7	29.0
60°-70°	2366.1	26.1
70°-80°	280.3	3.1
80°-90°	38.4	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°	9048.7	100.0
0°-180°	9048.7	100.0

**Coefficient of Utilization**



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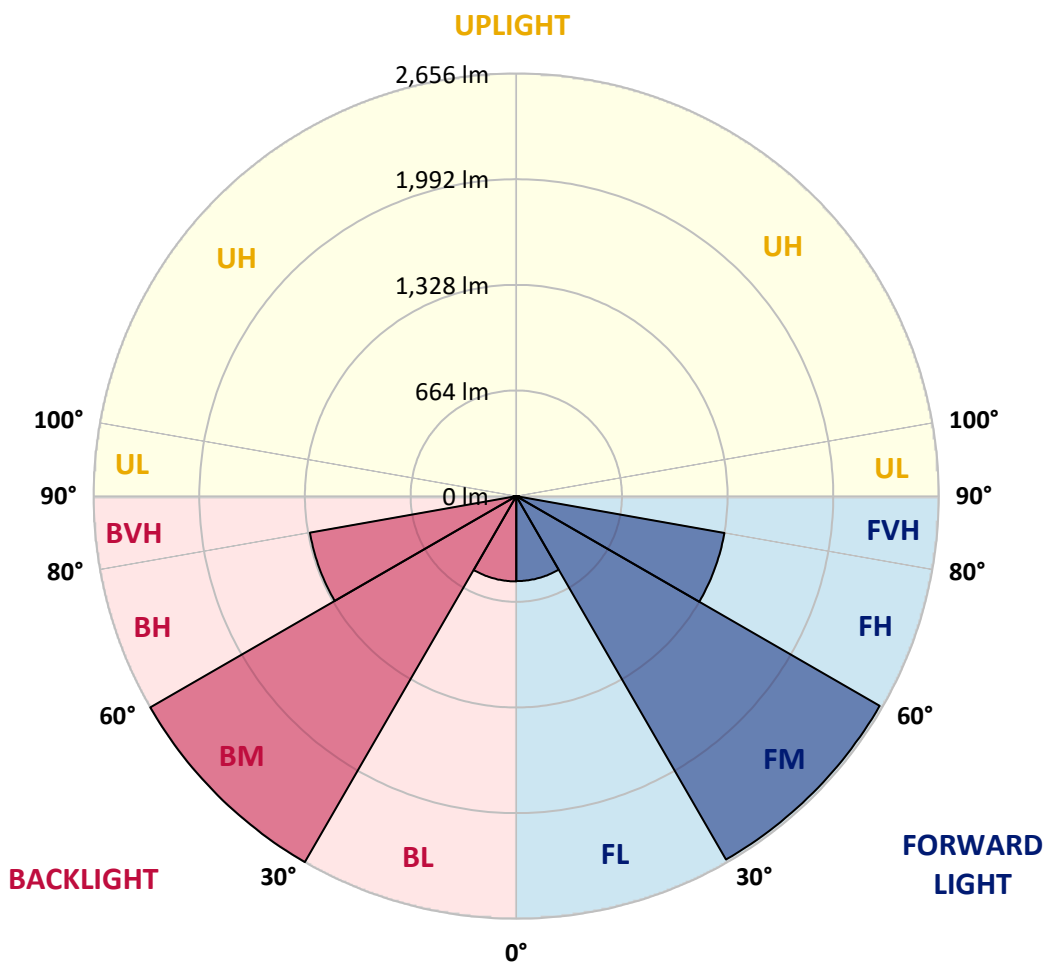
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.0	5.9			
FM (30°-60°)	2637.4	29.1			
FH (60°-80°)	1328.9	14.7			G1/1800
FVH (80°-90°)	19.7	0.2			G1/100
BL (0°-30°)	536.1	5.9	B2/1000		
BM (30°-60°)	2656.5	29.4	B3/5000		
BH (60°-80°)	1317.4	14.6	B3/2500		G1/1800
BVH (80°-90°)	18.7	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°	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4
2.5°	1047.0	1049.0	1067.7	1060.5	1066.7	1055.3	1063.6	1081.2	1060.5	1076.0	1081.2
5°	1058.4	1061.5	1061.5	1068.8	1072.9	1070.8	1076.0	1068.8	1088.5	1080.2	1092.6
7.5°	1099.9	1094.7	1086.4	1092.6	1093.7	1098.9	1104.0	1113.4	1110.3	1103.0	1115.5
10°	1107.2	1103.0	1115.5	1116.5	1111.3	1107.2	1112.3	1112.3	1121.7	1123.8	1123.8
12.5°	1119.6	1123.8	1122.7	1131.0	1132.1	1128.9	1137.2	1152.8	1148.7	1151.8	1144.5
15°	1167.3	1162.1	1161.1	1169.4	1182.9	1163.2	1177.7	1176.7	1172.5	1178.7	1162.1
17.5°	1208.8	1192.2	1199.5	1213.0	1207.8	1212.0	1230.6	1214.0	1218.2	1210.9	1205.7
20°	1245.2	1231.7	1232.7	1237.9	1237.9	1250.3	1257.6	1251.4	1247.2	1246.2	1248.3
22.5°	1285.6	1270.1	1271.1	1292.9	1300.2	1296.0	1290.8	1301.2	1303.3	1295.0	1304.3
25°	1315.7	1332.3	1337.5	1347.9	1332.3	1343.7	1339.6	1359.3	1371.7	1355.1	1366.6
27.5°	1394.6	1387.3	1400.8	1399.8	1412.2	1400.8	1408.1	1414.3	1419.5	1420.5	1415.3
30°	1465.1	1468.2	1454.8	1491.1	1462.0	1480.7	1493.1	1496.3	1502.5	1502.5	1486.9
32.5°	1539.8	1533.6	1555.4	1547.1	1541.9	1556.4	1543.0	1585.5	1560.6	1575.1	1557.5
35°	1623.9	1623.9	1632.2	1655.0	1623.9	1614.6	1639.5	1657.1	1657.1	1631.2	1637.4
37.5°	1718.3	1710.0	1720.4	1749.4	1725.6	1694.4	1740.1	1747.4	1742.2	1734.9	1722.5
40°	1784.7	1782.6	1803.4	1841.8	1807.6	1801.3	1809.6	1829.3	1835.6	1842.8	1826.2
42.5°	1896.8	1906.1	1966.3	1957.0	1929.0	1907.2	1905.1	1978.8	1961.1	1942.4	1933.1
45°	2062.8	2054.5	2085.6	2086.7	2050.4	2002.6	2013.0	2080.4	2110.5	2069.0	2084.6
47.5°	2194.6	2198.7	2220.5	2265.1	2181.1	2131.3	2169.7	2278.6	2269.3	2253.7	2268.3
50°	2371.0	2389.7	2458.1	2442.6	2367.9	2306.7	2390.7	2493.4	2504.8	2447.8	2437.4
52.5°	2614.8	2643.9	2681.2	2693.7	2622.1	2600.3	2605.5	2733.1	2705.1	2650.1	2614.8
55°	2828.6	2842.1	2910.6	3013.3	3008.1	2903.3	2963.5	3011.2	2897.1	2784.0	2793.3
57.5°	2919.9	2926.1	3117.0	3322.5	3444.9	3468.8	3400.3	3239.5	2967.6	2749.7	2736.2
60°	2692.6	2751.8	2982.1	3446.0	4005.3	4281.3	3825.7	3265.4	2802.6	2538.0	2518.3
62.5°	2152.0	2155.2	2497.6	3201.1	4353.9	5077.1	3988.6	3021.6	2362.7	2062.8	1983.9
64°	1532.6	1561.6	1954.9	2833.8	4281.3	5400.9	3968.9	2703.0	1947.6	1522.2	1467.2
65°	1099.9	1140.4	1520.1	2460.2	4111.1	5362.5	3909.8	2429.1	1575.1	1162.1	1106.1
67.5°	404.7	421.3	596.6	1230.6	2952.1	4569.7	3098.4	1335.4	692.1	492.9	443.1
70°	187.8	188.8	221.0	406.8	1290.8	3055.8	1478.6	501.2	260.4	206.5	192.0
72.5°	138.0	141.1	154.6	187.8	379.8	1293.9	485.6	205.5	152.5	134.9	131.8
75°	112.1	114.1	118.3	135.9	175.4	346.6	197.1	142.2	121.4	109.0	104.8
77.5°	86.1	86.1	95.5	103.8	116.2	161.9	130.7	113.1	98.6	86.1	83.0
80°	62.3	63.3	74.7	80.9	78.9	106.9	94.4	93.4	80.9	67.4	62.3
82.5°	36.3	39.4	54.0	58.1	56.0	63.3	68.5	72.6	63.3	46.7	42.5
85°	20.8	21.8	31.1	32.2	32.2	30.1	39.4	43.6	42.5	29.1	25.9
87.5°	6.2	6.2	8.3	8.3	9.3	10.4	15.6	18.7	20.8	14.5	13.5
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°	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4
2.5°	1076.0	1060.5	1061.5	1065.6	1052.2	1057.3	1072.9	1061.5	1058.4	1052.2	1049.0
5°	1070.8	1087.4	1081.2	1083.3	1080.2	1065.6	1063.6	1072.9	1078.1	1068.8	1087.4
7.5°	1107.2	1099.9	1091.6	1094.7	1087.4	1099.9	1108.2	1089.5	1098.9	1093.7	1083.3
10°	1127.9	1114.4	1120.6	1118.6	1113.4	1125.8	1117.5	1115.5	1107.2	1095.7	1112.3
12.5°	1135.2	1150.7	1161.1	1143.5	1146.6	1140.4	1135.2	1135.2	1125.8	1122.7	1125.8
15°	1167.3	1180.8	1176.7	1190.2	1172.5	1178.7	1185.0	1169.4	1177.7	1154.9	1172.5
17.5°	1226.5	1215.1	1229.6	1212.0	1218.2	1230.6	1210.9	1210.9	1217.1	1204.7	1189.1
20°	1263.8	1258.6	1253.5	1254.5	1244.1	1255.5	1249.3	1246.2	1236.9	1241.0	1249.3
22.5°	1299.1	1291.8	1293.9	1297.0	1304.3	1299.1	1296.0	1299.1	1276.3	1297.0	1268.0
25°	1342.7	1362.4	1356.2	1369.7	1348.9	1362.4	1361.4	1341.7	1354.1	1345.8	1339.6
27.5°	1415.3	1405.0	1414.3	1397.7	1412.2	1413.3	1400.8	1434.0	1419.5	1417.4	1413.3
30°	1508.7	1501.5	1495.2	1485.9	1497.3	1488.0	1498.3	1501.5	1488.0	1477.6	1457.9
32.5°	1561.6	1581.3	1588.6	1565.8	1566.8	1572.0	1562.7	1553.3	1561.6	1564.7	1561.6
35°	1636.3	1655.0	1659.2	1641.5	1632.2	1658.1	1639.5	1670.6	1643.6	1644.6	1616.6
37.5°	1723.5	1728.7	1764.0	1744.3	1736.0	1723.5	1757.7	1753.6	1759.8	1710.0	1734.9
40°	1822.1	1840.8	1860.5	1810.7	1809.6	1821.0	1819.0	1842.8	1831.4	1824.2	1806.5
42.5°	1930.0	1969.4	1972.5	1939.3	1918.6	1916.5	1926.9	1979.8	1980.8	1933.1	1912.4
45°	2073.2	2116.8	2105.4	2041.0	2018.2	2015.1	2065.9	2088.7	2108.5	2089.8	2072.1
47.5°	2251.7	2280.7	2272.4	2213.3	2139.6	2160.3	2210.2	2281.7	2261.0	2236.1	2215.3
50°	2442.6	2476.8	2459.2	2400.0	2329.5	2329.5	2390.7	2482.0	2475.8	2427.0	2408.3
52.5°	2654.3	2704.1	2744.5	2660.5	2601.3	2610.7	2707.2	2740.4	2724.8	2690.6	2675.0
55°	2812.0	2907.4	2990.4	2994.6	2997.7	2996.7	3021.6	3054.8	2943.8	2888.8	2832.7
57.5°	2773.6	2954.1	3238.4	3431.4	3488.5	3518.6	3510.3	3356.7	3094.2	2913.7	2932.3
60°	2499.7	2794.3	3253.0	3872.4	4287.5	4246.0	4094.5	3487.5	3011.2	2706.1	2667.7
62.5°	1994.3	2349.2	3009.1	3997.0	5140.4	5128.0	4335.2	3185.5	2509.0	2123.0	2099.1
64°	1502.5	1876.0	2684.3	3964.8	5439.3	5451.7	4274.0	2814.1	1963.2	1502.5	1466.2
65°	1149.7	1496.3	2365.8	3898.4	5374.9	5382.2	4103.8	2430.1	1492.1	1066.7	1027.3
67.5°	457.6	637.1	1283.5	2956.2	4615.4	4595.7	2928.2	1175.6	570.7	371.5	364.2
70°	195.1	242.8	450.3	1400.8	3090.1	3033.0	1260.7	381.8	211.7	177.4	176.4
72.5°	133.9	148.4	193.0	432.7	1284.6	1254.5	359.0	177.4	144.2	132.8	132.8
75°	107.9	118.3	140.1	181.6	340.3	327.9	169.1	130.7	115.2	106.9	105.8
77.5°	84.0	94.4	110.0	125.6	155.6	154.6	113.1	98.6	89.2	83.0	80.9
80°	66.4	76.8	87.2	89.2	101.7	99.6	76.8	77.8	72.6	60.2	59.1
82.5°	45.7	62.3	69.5	63.3	60.2	60.2	55.0	55.0	50.8	37.4	34.2
85°	28.0	41.5	43.6	37.4	28.0	28.0	30.1	29.1	27.0	19.7	18.7
87.5°	14.5	19.7	17.6	14.5	9.3	9.3	8.3	6.2	6.2	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)