

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: P478892

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

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478892  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

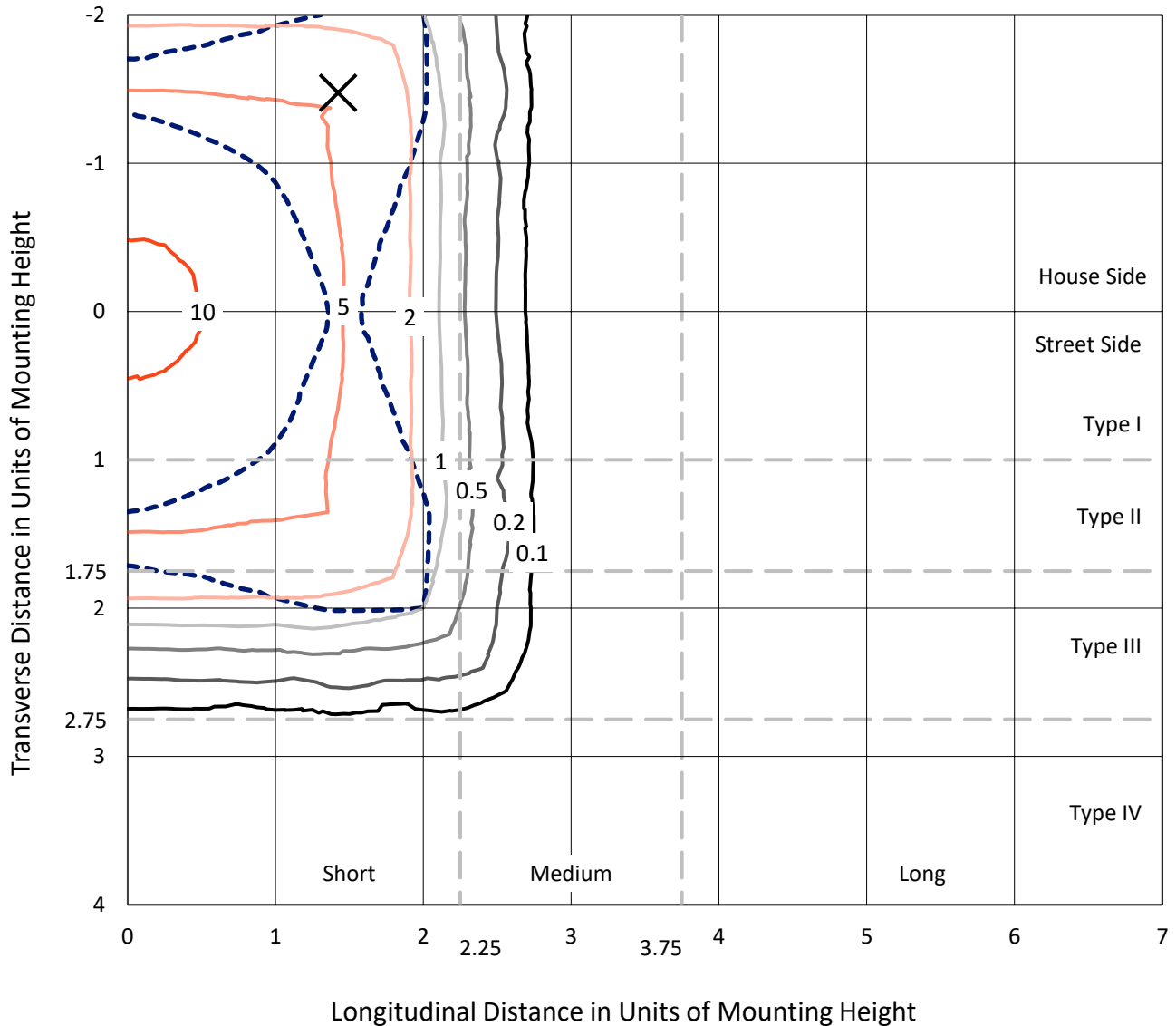
Lumens per Lamp: N/A  
Luminaire Lumens: 9081.8 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 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

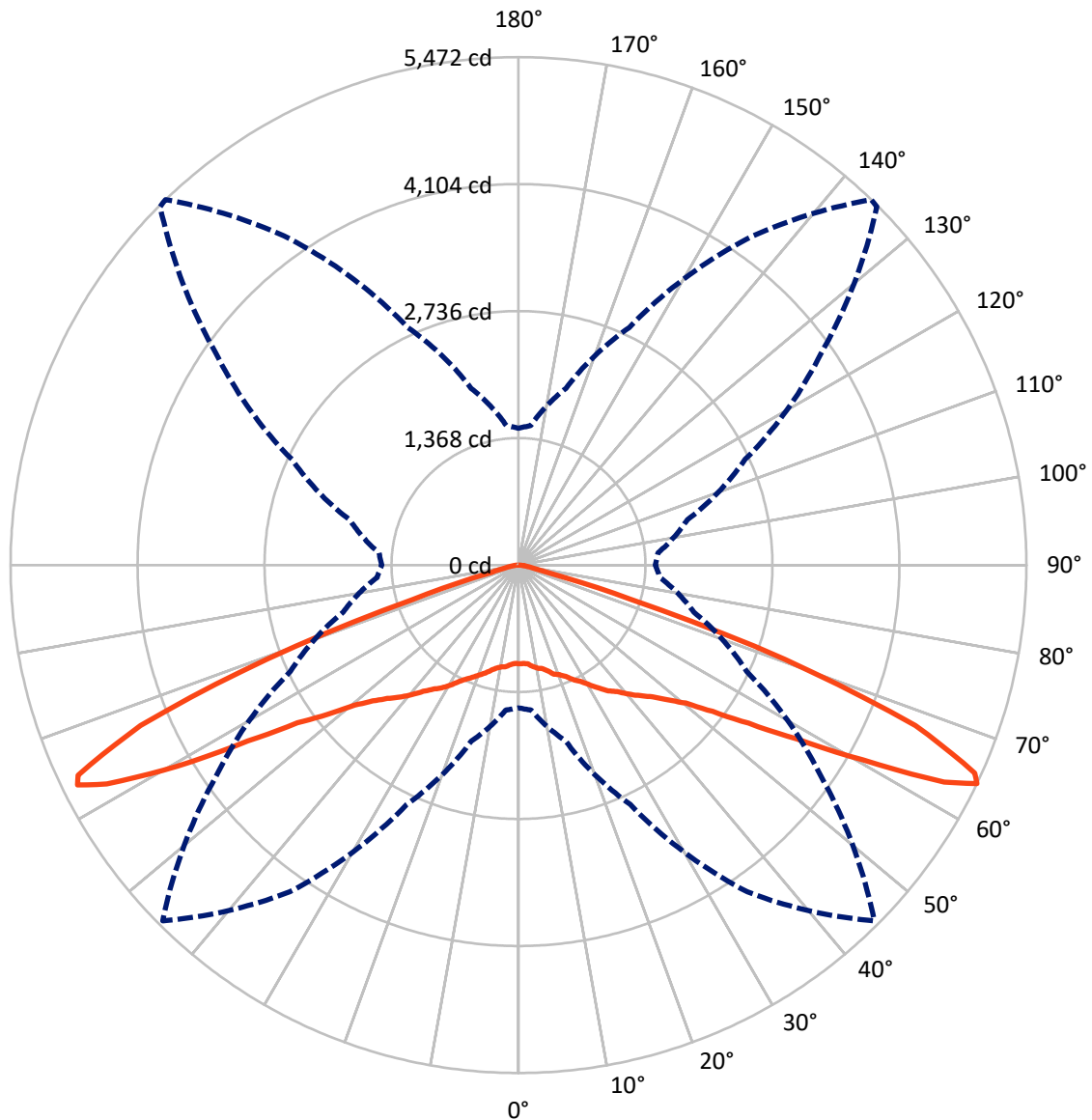
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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	4545.2	0.0	4545.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4536.6	0.0	4536.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9081.8	0.0	9081.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.2
10°-20°	336.7	3.7
20°-30°	632.9	7.0
30°-40°	1043.7	11.5
40°-50°	1632.2	18.0
50°-60°	2637.3	29.0
60°-70°	2374.7	26.1
70°-80°	281.3	3.1
80°-90°	38.5	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°	9081.8	100.0
0°-180°	9081.8	100.0

**Coefficient of Utilization**



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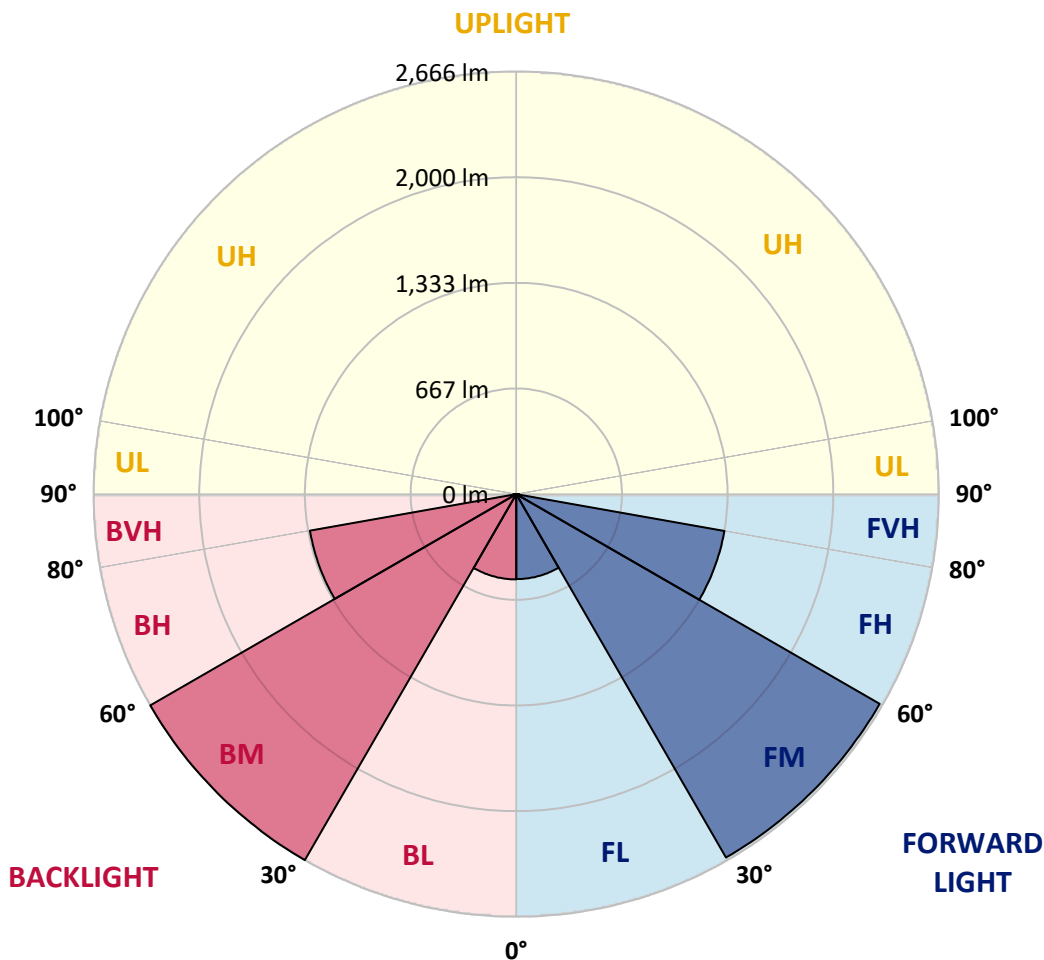
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.0	5.9			
FM (30°-60°)	2647.1	29.1			
FH (60°-80°)	1333.8	14.7			G1/1800
FVH (80°-90°)	19.7	0.2			G1/100
BL (0°-30°)	538.1	5.9	B2/1000		
BM (30°-60°)	2666.2	29.4	B3/5000		
BH (60°-80°)	1322.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	18.8	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°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1050.8	1052.9	1071.6	1064.3	1070.6	1059.1	1067.5	1085.2	1064.3	1080.0	1085.2
5°	1062.3	1065.4	1065.4	1072.7	1076.8	1074.8	1080.0	1072.7	1092.5	1084.1	1096.6
7.5°	1103.9	1098.7	1090.4	1096.6	1097.7	1102.9	1108.1	1117.4	1114.3	1107.0	1119.5
10°	1111.2	1107.0	1119.5	1120.6	1115.4	1111.2	1116.4	1116.4	1125.8	1127.9	1127.9
12.5°	1123.7	1127.9	1126.8	1135.2	1136.2	1133.1	1141.4	1157.0	1152.9	1156.0	1148.7
15°	1171.6	1166.4	1165.4	1173.7	1187.2	1167.4	1182.0	1181.0	1176.8	1183.1	1166.4
17.5°	1213.3	1196.6	1203.9	1217.4	1212.2	1216.4	1235.1	1218.5	1222.6	1215.3	1210.1
20°	1249.7	1236.2	1237.2	1242.4	1242.4	1254.9	1262.2	1256.0	1251.8	1250.8	1252.8
22.5°	1290.3	1274.7	1275.7	1297.6	1304.9	1300.7	1295.5	1305.9	1308.0	1299.7	1309.1
25°	1320.5	1337.2	1342.4	1352.8	1337.2	1348.6	1344.5	1364.3	1376.8	1360.1	1371.6
27.5°	1399.7	1392.4	1405.9	1404.9	1417.4	1405.9	1413.2	1419.5	1424.7	1425.7	1420.5
30°	1470.5	1473.6	1460.1	1496.5	1467.4	1486.1	1498.6	1501.7	1508.0	1508.0	1492.4
32.5°	1545.5	1539.2	1561.1	1552.8	1547.6	1562.1	1548.6	1591.3	1566.3	1580.9	1563.2
35°	1629.8	1629.8	1638.2	1661.1	1629.8	1620.5	1645.5	1663.2	1663.2	1637.1	1643.4
37.5°	1724.6	1716.3	1726.7	1755.8	1731.9	1700.6	1746.5	1753.8	1748.6	1741.3	1728.8
40°	1791.3	1789.2	1810.0	1848.5	1814.2	1807.9	1816.2	1836.0	1842.3	1849.6	1832.9
42.5°	1903.7	1913.1	1973.5	1964.1	1936.0	1914.1	1912.1	1986.0	1968.3	1949.5	1940.2
45°	2070.4	2062.0	2093.3	2094.3	2057.9	2009.9	2020.4	2088.1	2118.3	2076.6	2092.2
47.5°	2202.6	2206.8	2228.6	2273.4	2189.1	2139.1	2177.6	2287.0	2277.6	2262.0	2276.6
50°	2379.7	2398.4	2467.1	2451.5	2376.5	2315.1	2399.4	2502.5	2514.0	2456.7	2446.3
52.5°	2624.4	2653.5	2691.0	2703.5	2631.7	2609.8	2615.0	2743.1	2715.0	2659.8	2624.4
55°	2838.9	2852.5	2921.2	3024.3	3019.1	2913.9	2974.3	3022.2	2907.7	2794.1	2803.5
57.5°	2930.6	2936.8	3128.4	3334.6	3457.5	3481.5	3412.7	3251.3	2978.5	2759.8	2746.2
60°	2702.5	2761.9	2993.1	3458.6	4019.9	4296.9	3839.7	3277.4	2812.9	2547.3	2527.5
62.5°	2159.9	2163.0	2506.7	3212.8	4369.8	5095.7	4003.2	3032.6	2371.3	2070.4	1991.2
64°	1538.2	1567.3	1962.0	2844.1	4296.9	5420.6	3983.4	2712.9	1954.8	1527.8	1472.6
65°	1103.9	1144.5	1525.7	2469.2	4126.1	5382.1	3924.1	2438.0	1580.9	1166.4	1110.2
67.5°	406.2	422.8	598.8	1235.1	2962.9	4586.4	3109.7	1340.3	694.6	494.7	444.7
70°	188.5	189.5	221.8	408.2	1295.5	3067.0	1484.0	503.0	261.4	207.2	192.7
72.5°	138.5	141.6	155.2	188.5	381.2	1298.7	487.4	206.2	153.1	135.4	132.3
75°	112.5	114.6	118.7	136.4	176.0	347.8	197.9	142.7	121.8	109.3	105.2
77.5°	86.4	86.4	95.8	104.1	116.6	162.5	131.2	113.5	98.9	86.4	83.3
80°	62.5	63.5	75.0	81.2	79.1	107.3	94.8	93.7	81.2	67.7	62.5
82.5°	36.4	39.6	54.2	58.3	56.2	63.5	68.7	72.9	63.5	46.9	42.7
85°	20.8	21.9	31.2	32.3	32.3	30.2	39.6	43.7	42.7	29.2	26.0
87.5°	6.2	6.2	8.3	8.3	9.4	10.4	15.6	18.7	20.8	14.6	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°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1080.0	1064.3	1065.4	1069.5	1056.0	1061.2	1076.8	1065.4	1062.3	1056.0	1052.9
5°	1074.8	1091.4	1085.2	1087.2	1084.1	1069.5	1067.5	1076.8	1082.0	1072.7	1091.4
7.5°	1111.2	1103.9	1095.6	1098.7	1091.4	1103.9	1112.2	1093.5	1102.9	1097.7	1087.2
10°	1132.0	1118.5	1124.7	1122.7	1117.4	1129.9	1121.6	1119.5	1111.2	1099.7	1116.4
12.5°	1139.3	1154.9	1165.4	1147.6	1150.8	1144.5	1139.3	1139.3	1129.9	1126.8	1129.9
15°	1171.6	1185.1	1181.0	1194.5	1176.8	1183.1	1189.3	1173.7	1182.0	1159.1	1176.8
17.5°	1231.0	1219.5	1234.1	1216.4	1222.6	1235.1	1215.3	1215.3	1221.6	1209.1	1193.5
20°	1268.5	1263.2	1258.0	1259.1	1248.7	1260.1	1253.9	1250.8	1241.4	1245.5	1253.9
22.5°	1303.9	1296.6	1298.7	1301.8	1309.1	1303.9	1300.7	1303.9	1281.0	1301.8	1272.6
25°	1347.6	1367.4	1361.1	1374.7	1353.9	1367.4	1366.3	1346.6	1359.1	1350.7	1344.5
27.5°	1420.5	1410.1	1419.5	1402.8	1417.4	1418.4	1405.9	1439.2	1424.7	1422.6	1418.4
30°	1514.2	1506.9	1500.7	1491.3	1502.8	1493.4	1503.8	1506.9	1493.4	1483.0	1463.2
32.5°	1567.3	1587.1	1594.4	1571.5	1572.6	1577.8	1568.4	1559.0	1567.3	1570.5	1567.3
35°	1642.3	1661.1	1665.2	1647.5	1638.2	1664.2	1645.5	1676.7	1649.6	1650.7	1622.5
37.5°	1729.8	1735.0	1770.4	1750.6	1742.3	1729.8	1764.2	1760.0	1766.3	1716.3	1741.3
40°	1828.7	1847.5	1867.3	1817.3	1816.2	1827.7	1825.6	1849.6	1838.1	1830.8	1813.1
42.5°	1937.0	1976.6	1979.7	1946.4	1925.6	1923.5	1933.9	1987.0	1988.1	1940.2	1919.3
45°	2080.8	2124.5	2113.1	2048.5	2025.6	2022.4	2073.5	2096.4	2116.2	2097.4	2079.7
47.5°	2259.9	2289.1	2280.7	2221.4	2147.4	2168.2	2218.2	2290.1	2269.3	2244.3	2223.4
50°	2451.5	2485.9	2468.2	2408.8	2338.0	2338.0	2399.4	2491.1	2484.8	2435.9	2417.1
52.5°	2664.0	2714.0	2754.6	2670.2	2610.9	2620.2	2717.1	2750.4	2734.8	2700.4	2684.8
55°	2822.3	2918.1	3001.4	3005.6	3008.7	3007.6	3032.6	3066.0	2954.5	2899.3	2843.1
57.5°	2783.7	2964.9	3250.3	3444.0	3501.3	3531.5	3523.1	3369.0	3105.5	2924.3	2943.1
60°	2508.8	2804.6	3264.9	3886.6	4303.2	4261.5	4109.5	3500.2	3022.2	2716.0	2677.5
62.5°	2001.6	2357.8	3020.1	4011.6	5159.2	5146.7	4351.1	3197.2	2518.2	2130.8	2106.8
64°	1508.0	1882.9	2694.2	3979.3	5459.1	5471.6	4289.6	2824.3	1970.4	1508.0	1471.5
65°	1153.9	1501.7	2374.4	3912.6	5394.6	5401.9	4118.8	2439.0	1497.6	1070.6	1031.0
67.5°	459.3	639.4	1288.2	2967.0	4632.3	4612.5	2938.9	1179.9	572.8	372.8	365.5
70°	195.8	243.7	452.0	1405.9	3101.4	3044.1	1265.3	383.2	212.5	178.1	177.0
72.5°	134.3	148.9	193.7	434.3	1289.3	1259.1	360.3	178.1	144.8	133.3	133.3
75°	108.3	118.7	140.6	182.2	341.6	329.1	169.8	131.2	115.6	107.3	106.2
77.5°	84.4	94.8	110.4	126.0	156.2	155.2	113.5	98.9	89.6	83.3	81.2
80°	66.7	77.1	87.5	89.6	102.1	100.0	77.1	78.1	72.9	60.4	59.4
82.5°	45.8	62.5	69.8	63.5	60.4	60.4	55.2	55.2	51.0	37.5	34.4
85°	28.1	41.7	43.7	37.5	28.1	28.1	30.2	29.2	27.1	19.8	18.7
87.5°	14.6	19.8	17.7	14.6	9.4	9.4	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)