

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: P479443

Luminaire Tested: **IFLD-S-SA3A-827-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479443  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

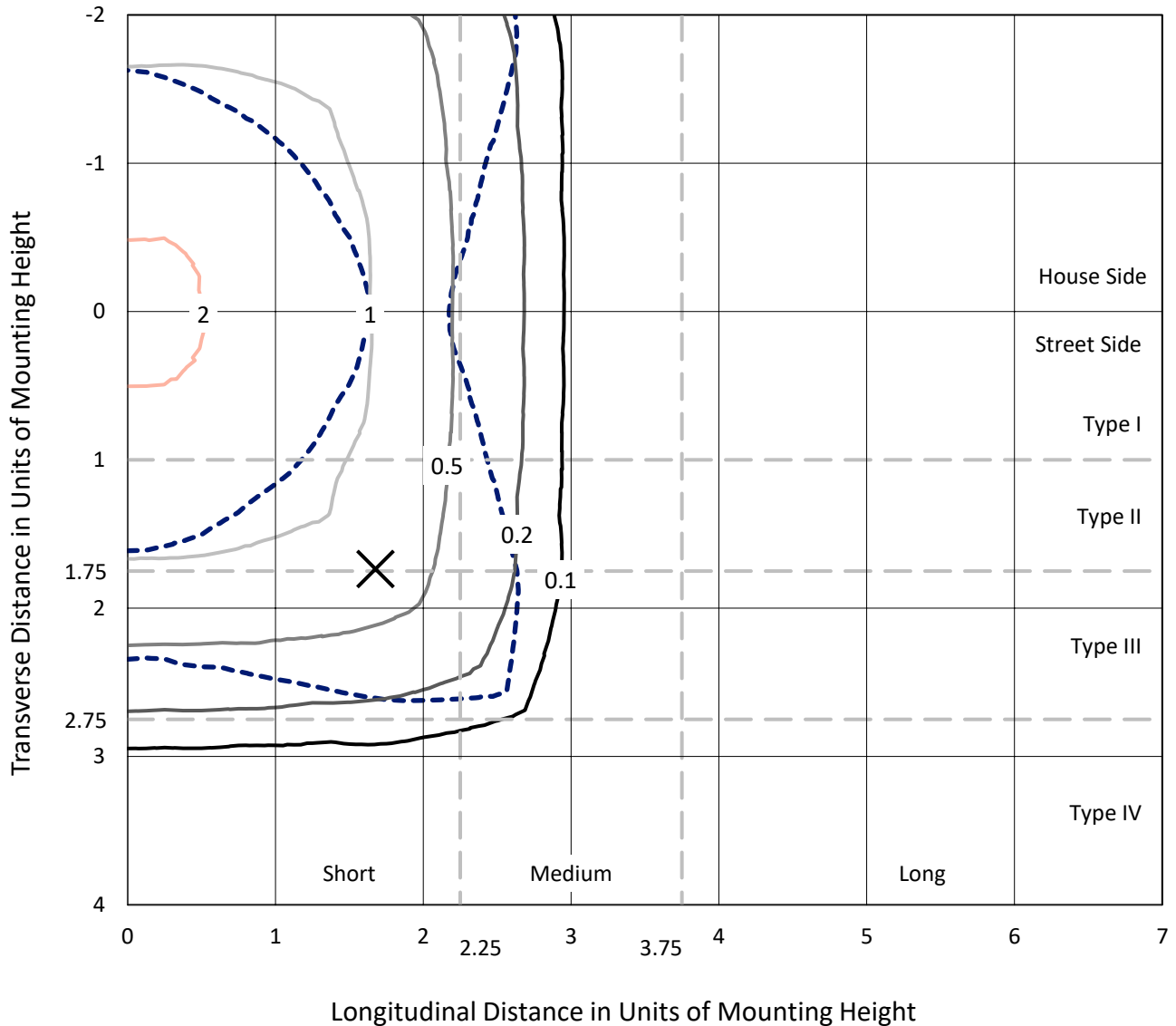
Lumens per Lamp: N/A  
Luminaire Lumens: 10209.1 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 94.8  
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

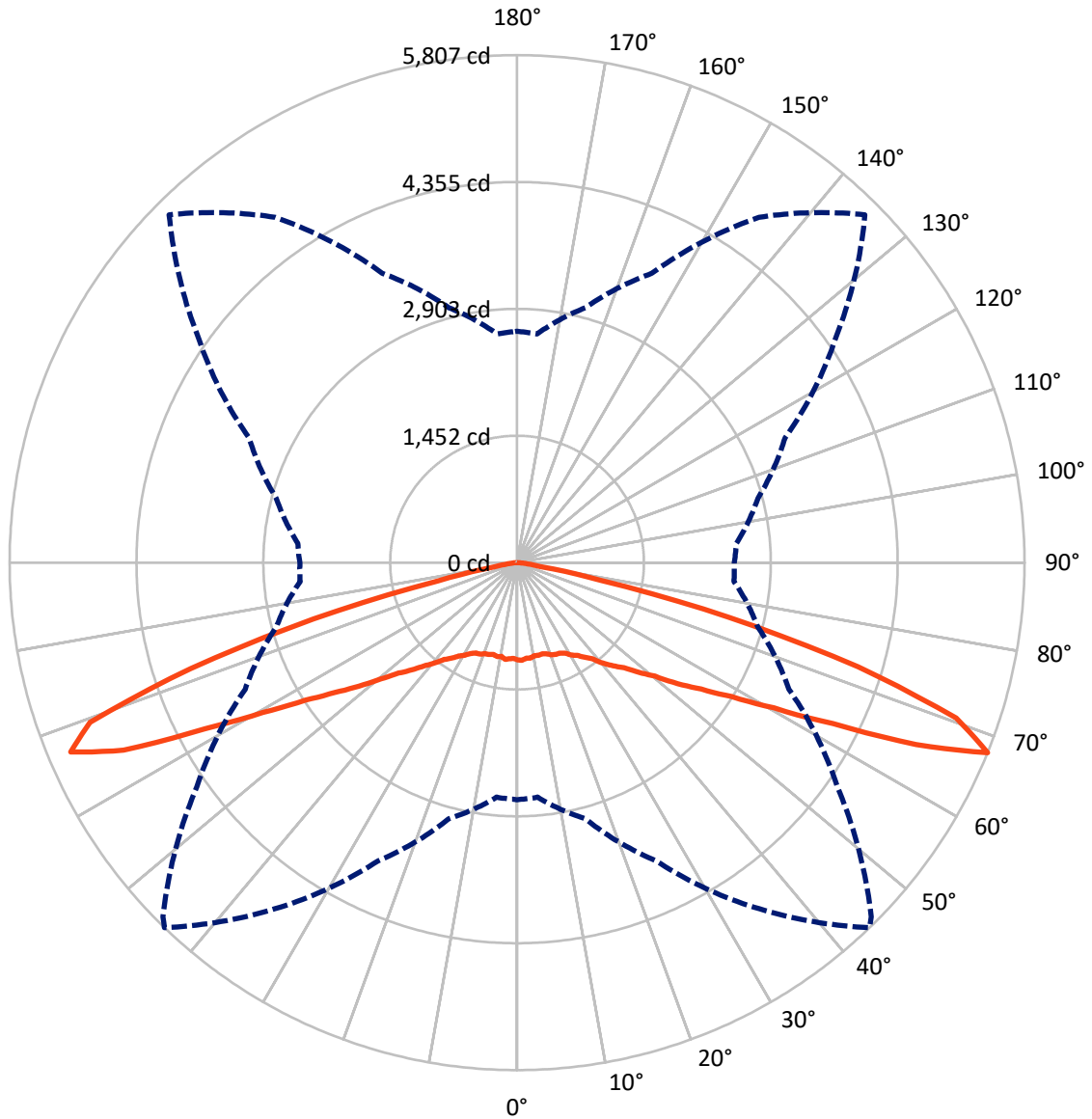
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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	5091.5	0.0	5091.5
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	5117.6	0.0	5117.6
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	10209.1	0.0	10209.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	1.0
10°-20°	308.3	3.0
20°-30°	524.3	5.1
30°-40°	831.3	8.1
40°-50°	1355.4	13.3
50°-60°	2314.9	22.7
60°-70°	3520.9	34.5
70°-80°	1186.8	11.6
80°-90°	61.6	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°	10209.1	100.0
0°-180°	10209.1	100.0

**Coefficient of Utilization**



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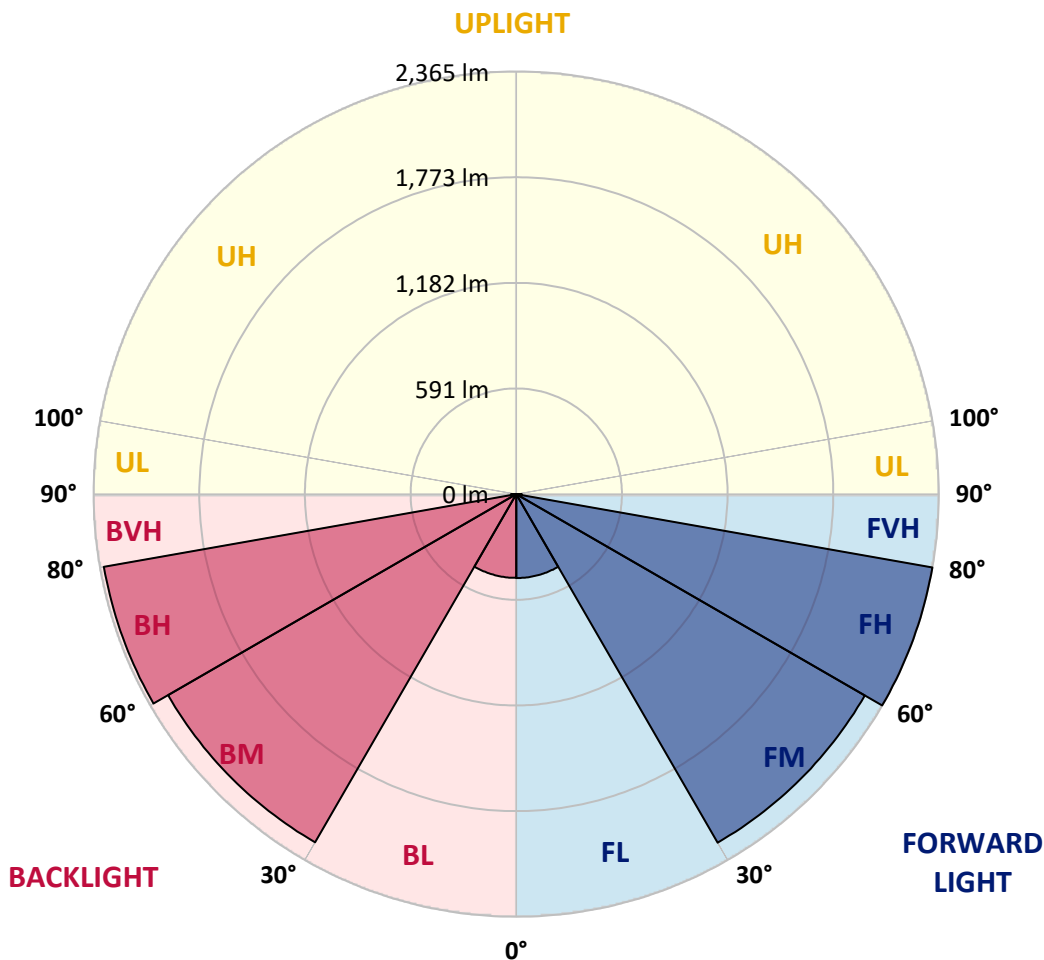
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.5	4.6			
FM (30°-60°)	2252.0	22.1			
FH (60°-80°)	2364.5	23.2			G2/5000
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	468.6	4.6	B1/500		
BM (30°-60°)	2249.6	22.0	B2/2500		
BH (60°-80°)	2343.2	23.0	B3/2500		G2/5000
BVH (80°-90°)	30.1	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°	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2
2.5°	1089.5	1102.3	1111.7	1110.5	1114.0	1117.5	1112.8	1119.8	1115.2	1123.3	1128.0
5°	1110.5	1107.0	1108.2	1101.2	1117.5	1098.8	1098.8	1108.2	1119.8	1105.8	1114.0
7.5°	1097.7	1095.4	1089.5	1100.0	1103.5	1103.5	1112.8	1095.4	1115.2	1119.8	1121.0
10°	1083.7	1070.9	1088.4	1098.8	1101.2	1082.5	1090.7	1095.4	1089.5	1095.4	1098.8
12.5°	1072.0	1079.0	1079.0	1079.0	1075.5	1088.4	1096.5	1095.4	1083.7	1094.2	1075.5
15°	1070.9	1067.4	1077.9	1087.2	1081.4	1083.7	1087.2	1097.7	1075.5	1080.2	1080.2
17.5°	1069.7	1074.4	1077.9	1076.7	1096.5	1096.5	1093.0	1086.0	1103.5	1094.2	1081.4
20°	1074.4	1070.9	1080.2	1083.7	1097.7	1125.7	1115.2	1109.3	1100.0	1088.4	1088.4
22.5°	1080.2	1077.9	1090.7	1105.8	1132.6	1139.6	1138.5	1131.5	1115.2	1101.2	1098.8
25°	1101.2	1080.2	1094.2	1123.3	1132.6	1146.6	1155.9	1146.6	1124.5	1128.0	1107.0
27.5°	1132.6	1129.1	1147.8	1167.6	1159.4	1172.3	1164.1	1171.1	1172.3	1154.8	1133.8
30°	1169.9	1159.4	1171.1	1209.5	1213.0	1227.0	1213.0	1194.4	1200.2	1185.1	1174.6
32.5°	1223.5	1220.0	1242.2	1267.8	1272.5	1265.5	1258.5	1269.0	1244.5	1232.9	1214.2
35°	1258.5	1273.6	1300.4	1320.3	1335.4	1328.4	1331.9	1321.4	1327.2	1302.8	1294.6
37.5°	1362.2	1356.4	1362.2	1396.0	1399.5	1396.0	1399.5	1411.1	1403.0	1382.0	1361.0
40°	1460.1	1450.8	1464.7	1503.2	1500.9	1512.5	1489.2	1502.0	1502.0	1462.4	1454.3
42.5°	1533.5	1565.0	1581.3	1612.7	1624.4	1613.9	1609.2	1611.6	1637.2	1590.6	1573.1
45°	1685.0	1683.8	1732.8	1750.2	1717.6	1715.3	1706.0	1733.9	1751.4	1724.6	1717.6
47.5°	1849.3	1857.4	1885.4	1892.4	1912.2	1876.1	1876.1	1879.6	1941.3	1878.4	1845.8
50°	1997.3	2007.8	2063.7	2118.5	2081.2	2042.7	2057.9	2076.5	2110.3	2050.9	2022.9
52.5°	2176.7	2233.8	2271.1	2300.2	2327.0	2300.2	2265.3	2286.3	2352.7	2273.4	2238.5
55°	2435.4	2480.9	2515.8	2569.4	2591.6	2555.4	2551.9	2549.6	2586.9	2503.0	2455.2
57.5°	2724.4	2705.8	2761.7	2844.4	2924.8	2889.9	2879.4	2881.7	2891.0	2772.2	2736.1
60°	3083.3	3104.3	3170.7	3242.9	3328.0	3377.0	3308.2	3268.6	3276.7	3114.8	3058.8
62.5°	3288.4	3335.0	3485.3	3733.5	3904.8	4057.5	4068.0	3810.4	3638.0	3323.3	3085.6
65°	3189.3	3182.4	3465.5	3924.6	4573.7	5017.6	4951.2	4326.6	3724.2	3224.3	2905.0
67.5°	2712.7	2694.1	3036.7	3765.0	4837.0	5806.5	5730.8	4472.3	3432.9	2852.6	2491.3
70°	1747.9	1743.2	2115.0	2870.1	4318.5	5331.1	5359.1	4062.1	2794.3	2089.3	1731.6
72.5°	635.1	673.5	889.1	1542.8	2933.0	4078.4	4095.9	3007.6	1606.9	966.0	712.0
75°	234.2	241.2	280.8	501.1	1336.6	2504.2	2569.4	1458.9	571.0	314.6	256.4
77.5°	135.2	136.3	150.3	186.4	396.2	977.7	1017.3	442.8	221.4	167.8	155.0
80°	92.1	90.9	106.0	121.2	158.5	277.3	294.8	185.3	139.8	116.5	97.9
82.5°	53.6	57.1	78.1	86.2	96.7	122.4	124.7	115.4	104.9	86.2	64.1
85°	32.6	26.8	43.1	47.8	55.9	54.8	54.8	62.9	67.6	60.6	36.1
87.5°	8.2	8.2	10.5	11.7	15.1	11.7	12.8	24.5	32.6	30.3	18.6
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°	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2	1115.2
2.5°	1117.5	1114.0	1116.3	1129.1	1121.0	1096.5	1102.3	1115.2	1104.7	1098.8	1097.7
5°	1112.8	1119.8	1111.7	1114.0	1122.2	1102.3	1105.8	1122.2	1115.2	1117.5	1104.7
7.5°	1114.0	1117.5	1110.5	1100.0	1100.0	1116.3	1107.0	1109.3	1098.8	1116.3	1093.0
10°	1107.0	1097.7	1089.5	1095.4	1093.0	1088.4	1084.9	1091.9	1081.4	1096.5	1080.2
12.5°	1086.0	1088.4	1086.0	1083.7	1088.4	1100.0	1081.4	1083.7	1067.4	1069.7	1077.9
15°	1077.9	1084.9	1082.5	1095.4	1101.2	1083.7	1097.7	1083.7	1070.9	1063.9	1076.7
17.5°	1081.4	1091.9	1088.4	1097.7	1087.2	1100.0	1102.3	1096.5	1081.4	1075.5	1081.4
20°	1084.9	1081.4	1086.0	1102.3	1117.5	1104.7	1104.7	1101.2	1087.2	1079.0	1079.0
22.5°	1093.0	1087.2	1094.2	1107.0	1111.7	1131.5	1114.0	1105.8	1082.5	1061.6	1081.4
25°	1109.3	1112.8	1117.5	1112.8	1138.5	1136.1	1133.8	1128.0	1091.9	1093.0	1089.5
27.5°	1140.8	1121.0	1126.8	1154.8	1158.3	1167.6	1155.9	1166.4	1128.0	1129.1	1105.8
30°	1179.3	1158.3	1176.9	1201.4	1200.2	1217.7	1211.9	1214.2	1187.4	1172.3	1140.8
32.5°	1221.2	1218.9	1230.5	1245.7	1251.5	1260.8	1259.7	1259.7	1243.3	1203.7	1209.5
35°	1267.8	1284.1	1298.1	1314.4	1316.8	1328.4	1312.1	1314.4	1298.1	1269.0	1278.3
37.5°	1359.9	1358.7	1373.9	1393.7	1396.0	1386.7	1399.5	1393.7	1371.5	1351.7	1336.6
40°	1467.1	1443.8	1457.8	1504.4	1507.9	1491.5	1490.4	1489.2	1472.9	1429.8	1420.5
42.5°	1560.3	1590.6	1588.3	1603.4	1592.9	1584.8	1613.9	1597.6	1584.8	1539.3	1531.2
45°	1680.3	1689.6	1719.9	1768.9	1718.8	1718.8	1738.6	1725.8	1718.8	1685.0	1653.5
47.5°	1829.5	1837.6	1898.2	1901.7	1869.1	1847.0	1908.7	1911.0	1881.9	1856.3	1817.8
50°	2004.3	2007.8	2062.5	2118.5	2082.3	2040.4	2103.3	2127.8	2062.5	2027.6	1979.8
52.5°	2196.5	2186.0	2231.5	2336.4	2301.4	2288.6	2356.2	2362.0	2273.4	2218.7	2231.5
55°	2417.9	2404.0	2527.5	2598.6	2576.4	2553.1	2583.4	2597.4	2526.3	2436.6	2468.0
57.5°	2704.6	2711.6	2773.3	2843.3	2879.4	2885.2	2899.2	2885.2	2813.0	2722.1	2692.9
60°	2991.2	3012.2	3132.2	3263.9	3275.6	3378.1	3359.5	3289.6	3187.0	3057.7	3063.5
62.5°	3097.3	3079.8	3273.2	3594.9	3868.7	4056.3	3973.6	3725.4	3487.7	3252.3	3269.7
65°	2884.0	2927.2	3190.5	3693.9	4288.2	5030.5	4590.0	3903.7	3423.6	3119.4	3085.6
67.5°	2485.5	2518.1	2852.6	3383.9	4438.5	5629.4	4823.0	3652.0	3019.2	2625.4	2646.3
70°	1731.6	1747.9	2075.3	2772.2	4024.8	5312.5	4351.1	2804.8	2084.7	1661.7	1685.0
72.5°	696.8	736.5	952.0	1669.8	2971.4	4036.5	2929.5	1471.7	864.6	643.2	583.8
75°	257.5	258.7	304.1	574.5	1411.1	2536.8	1321.4	473.1	276.2	226.1	215.6
77.5°	149.2	148.0	158.5	207.4	409.0	990.5	375.2	185.3	150.3	135.2	129.3
80°	93.2	92.1	108.4	137.5	179.5	271.5	158.5	115.4	101.4	87.4	87.4
82.5°	59.4	60.6	85.1	101.4	109.5	120.0	92.1	81.6	75.7	50.1	48.9
85°	38.5	35.0	59.4	67.6	60.6	53.6	51.3	43.1	39.6	24.5	26.8
87.5°	17.5	18.6	30.3	33.8	22.1	12.8	12.8	9.3	9.3	5.8	5.8
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)