

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: P479244

Luminaire Tested: **IFLD-S-SA2B-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479244  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

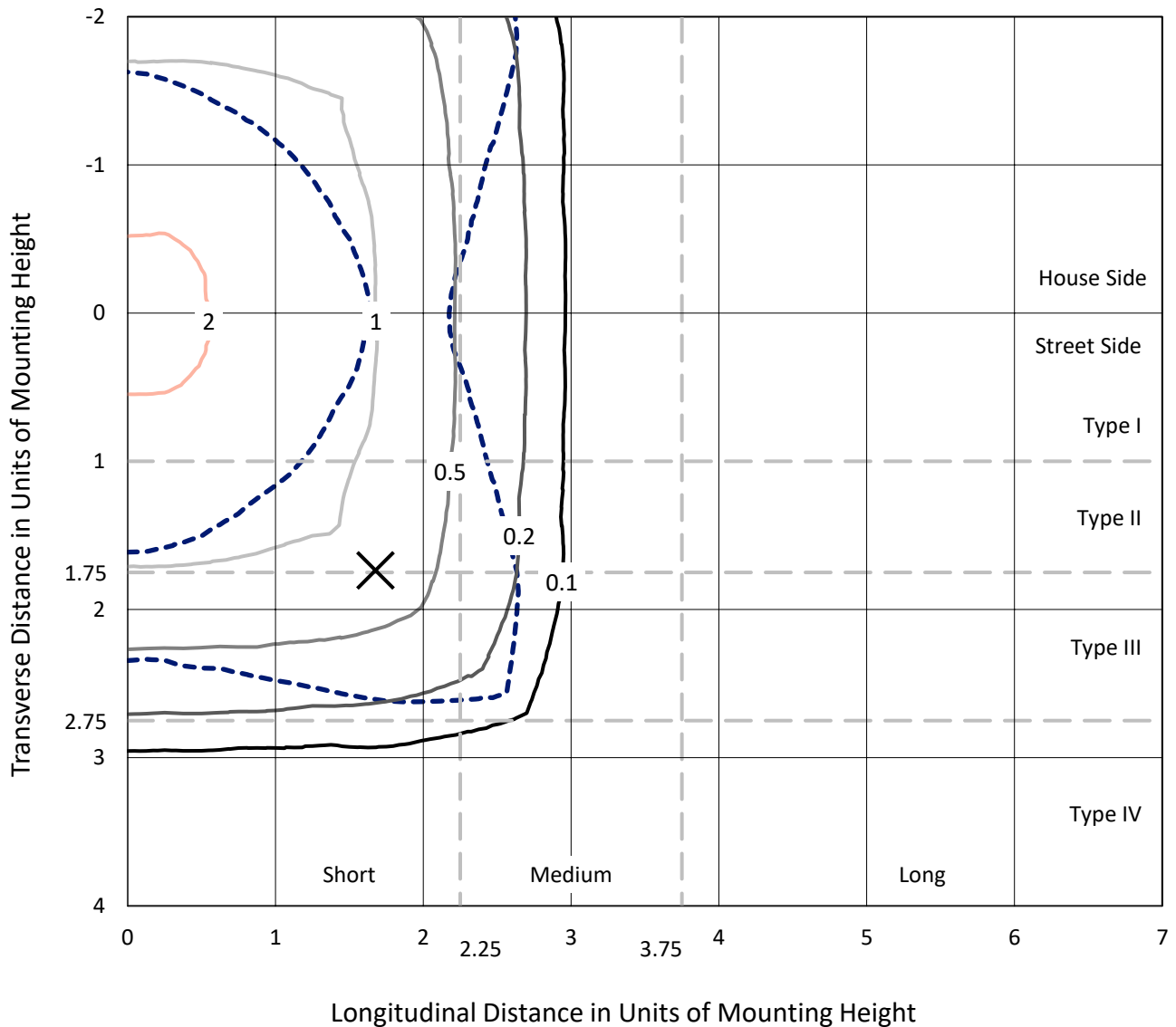
Lumens per Lamp: N/A  
Luminaire Lumens: 10494.8 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

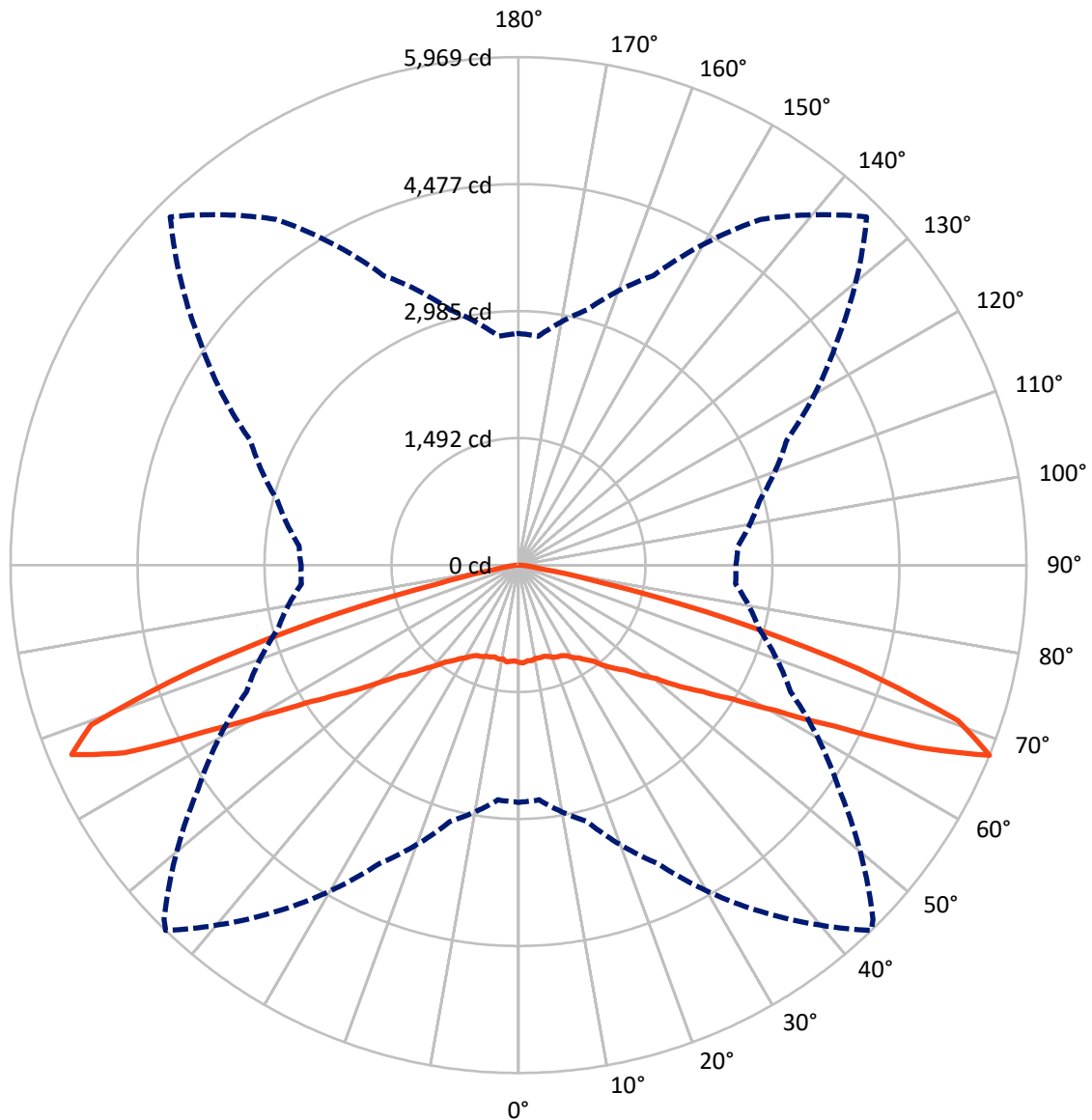
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 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	5234.0	0.0	5234.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	5260.9	0.0	5260.9
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	10494.8	0.0	10494.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	1.0
10°-20°	316.9	3.0
20°-30°	539.0	5.1
30°-40°	854.5	8.1
40°-50°	1393.4	13.3
50°-60°	2379.7	22.7
60°-70°	3619.5	34.5
70°-80°	1220.0	11.6
80°-90°	63.3	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°	10494.8	100.0
0°-180°	10494.8	100.0

**Coefficient of Utilization**



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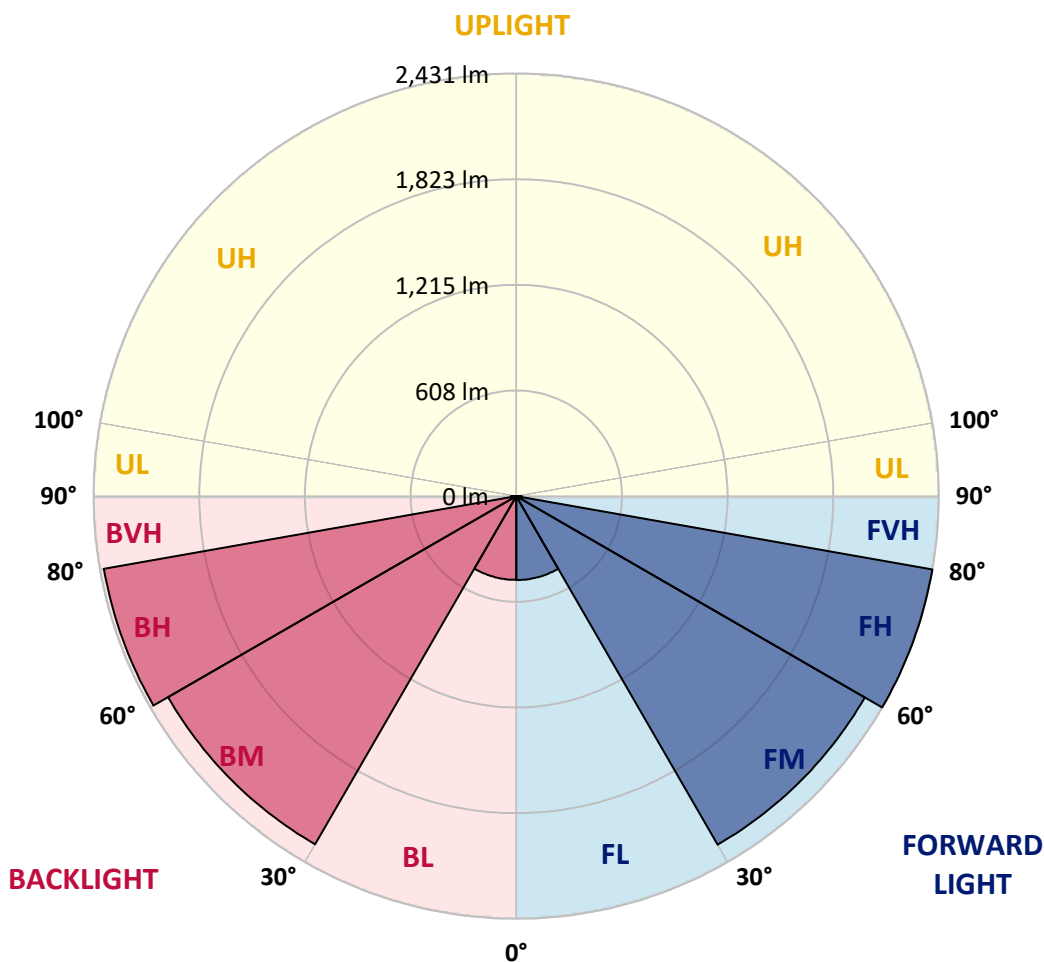
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.7	4.6			
FM (30°-60°)	2315.1	22.1			
FH (60°-80°)	2430.7	23.2			G2/5000
FVH (80°-90°)	32.4	0.3			G1/100
BL (0°-30°)	481.7	4.6	B1/500		
BM (30°-60°)	2312.6	22.0	B2/2500		
BH (60°-80°)	2408.8	23.0	B3/2500		G2/5000
BVH (80°-90°)	30.9	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°	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4
2.5°	1120.0	1133.2	1142.8	1141.6	1145.2	1148.8	1144.0	1151.2	1146.4	1154.8	1159.6
5°	1141.6	1138.0	1139.2	1132.0	1148.8	1129.6	1129.6	1139.2	1151.2	1136.8	1145.2
7.5°	1128.4	1126.0	1120.0	1130.8	1134.4	1134.4	1144.0	1126.0	1146.4	1151.2	1152.4
10°	1114.0	1100.9	1118.8	1129.6	1132.0	1112.8	1121.2	1126.0	1120.0	1126.0	1129.6
12.5°	1102.1	1109.2	1109.2	1109.2	1105.7	1118.8	1127.2	1126.0	1114.0	1124.8	1105.7
15°	1100.9	1097.3	1108.0	1117.6	1111.6	1114.0	1117.6	1128.4	1105.7	1110.4	1110.4
17.5°	1099.7	1104.5	1108.0	1106.9	1127.2	1127.2	1123.6	1116.4	1134.4	1124.8	1111.6
20°	1104.5	1100.9	1110.4	1114.0	1128.4	1157.2	1146.4	1140.4	1130.8	1118.8	1118.8
22.5°	1110.4	1108.0	1121.2	1136.8	1164.3	1171.5	1170.3	1163.2	1146.4	1132.0	1129.6
25°	1132.0	1110.4	1124.8	1154.8	1164.3	1178.7	1188.3	1178.7	1156.0	1159.6	1138.0
27.5°	1164.3	1160.8	1179.9	1200.3	1191.9	1205.1	1196.7	1203.9	1205.1	1187.1	1165.5
30°	1202.7	1191.9	1203.9	1243.4	1247.0	1261.4	1247.0	1227.8	1233.8	1218.3	1207.5
32.5°	1257.8	1254.2	1277.0	1303.3	1308.1	1300.9	1293.7	1304.5	1279.3	1267.4	1248.2
35°	1293.7	1309.3	1336.8	1357.2	1372.8	1365.6	1369.2	1358.4	1364.4	1339.2	1330.9
37.5°	1400.3	1394.3	1400.3	1435.1	1438.7	1435.1	1438.7	1450.6	1442.3	1420.7	1399.1
40°	1501.0	1491.4	1505.7	1545.3	1542.9	1554.9	1530.9	1544.1	1544.1	1503.4	1495.0
42.5°	1576.4	1608.8	1625.5	1657.9	1669.9	1659.1	1654.3	1656.7	1683.0	1635.1	1617.2
45°	1732.1	1731.0	1781.3	1799.2	1765.7	1763.3	1753.7	1782.5	1800.4	1772.9	1765.7
47.5°	1901.1	1909.4	1938.2	1945.4	1965.7	1928.6	1928.6	1932.2	1995.7	1931.0	1897.5
50°	2053.2	2064.0	2121.5	2177.8	2139.4	2099.9	2115.5	2134.6	2169.4	2108.3	2079.5
52.5°	2237.7	2296.4	2334.7	2364.6	2392.2	2364.6	2328.7	2350.3	2418.5	2337.1	2301.1
55°	2503.6	2550.3	2586.2	2641.3	2664.1	2627.0	2623.4	2621.0	2659.3	2573.1	2524.0
57.5°	2800.7	2781.5	2839.0	2924.0	3006.7	2970.8	2960.0	2962.4	2972.0	2849.8	2812.6
60°	3169.6	3191.2	3259.5	3333.7	3421.2	3471.5	3400.8	3360.1	3368.5	3202.0	3144.5
62.5°	3380.4	3428.4	3582.9	3838.0	4014.1	4171.1	4181.8	3917.1	3739.8	3416.4	3172.0
65°	3278.6	3271.4	3562.5	4034.5	4701.7	5158.1	5089.8	4447.8	3828.5	3314.6	2986.3
67.5°	2788.7	2769.5	3121.7	3870.4	4972.4	5969.1	5891.2	4597.5	3529.0	2932.4	2561.1
70°	1796.8	1792.0	2174.2	2950.4	4439.4	5480.3	5509.1	4175.8	2872.5	2147.8	1780.1
72.5°	652.9	692.4	914.0	1586.0	3015.1	4192.6	4210.6	3091.8	1651.9	993.1	731.9
75°	240.8	248.0	288.7	515.1	1374.0	2574.3	2641.3	1499.8	587.0	323.4	263.5
77.5°	139.0	140.2	154.5	191.7	407.3	1005.0	1045.8	455.2	227.6	172.5	159.3
80°	94.6	93.4	109.0	124.6	162.9	285.1	303.1	190.5	143.7	119.8	100.6
82.5°	55.1	58.7	80.3	88.6	99.4	125.8	128.2	118.6	107.8	88.6	65.9
85°	33.5	27.6	44.3	49.1	57.5	56.3	56.3	64.7	69.5	62.3	37.1
87.5°	8.4	8.4	10.8	12.0	15.6	12.0	13.2	25.2	33.5	31.1	19.2
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°	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4	1146.4
2.5°	1148.8	1145.2	1147.6	1160.8	1152.4	1127.2	1133.2	1146.4	1135.6	1129.6	1128.4
5°	1144.0	1151.2	1142.8	1145.2	1153.6	1133.2	1136.8	1153.6	1146.4	1148.8	1135.6
7.5°	1145.2	1148.8	1141.6	1130.8	1130.8	1147.6	1138.0	1140.4	1129.6	1147.6	1123.6
10°	1138.0	1128.4	1120.0	1126.0	1123.6	1118.8	1115.2	1122.4	1111.6	1127.2	1110.4
12.5°	1116.4	1118.8	1116.4	1114.0	1118.8	1130.8	1111.6	1114.0	1097.3	1099.7	1108.0
15°	1108.0	1115.2	1112.8	1126.0	1132.0	1114.0	1128.4	1114.0	1100.9	1093.7	1106.9
17.5°	1111.6	1122.4	1118.8	1128.4	1117.6	1130.8	1133.2	1127.2	1111.6	1105.7	1111.6
20°	1115.2	1111.6	1116.4	1133.2	1148.8	1135.6	1135.6	1132.0	1117.6	1109.2	1109.2
22.5°	1123.6	1117.6	1124.8	1138.0	1142.8	1163.2	1145.2	1136.8	1112.8	1091.3	1111.6
25°	1140.4	1144.0	1148.8	1144.0	1170.3	1167.9	1165.5	1159.6	1122.4	1123.6	1120.0
27.5°	1172.7	1152.4	1158.4	1187.1	1190.7	1200.3	1188.3	1199.1	1159.6	1160.8	1136.8
30°	1212.3	1190.7	1209.9	1235.0	1233.8	1251.8	1245.8	1248.2	1220.6	1205.1	1172.7
32.5°	1255.4	1253.0	1265.0	1280.5	1286.5	1296.1	1294.9	1294.9	1278.1	1237.4	1243.4
35°	1303.3	1320.1	1334.4	1351.2	1353.6	1365.6	1348.8	1351.2	1334.4	1304.5	1314.1
37.5°	1397.9	1396.7	1412.3	1432.7	1435.1	1425.5	1438.7	1432.7	1409.9	1389.6	1374.0
40°	1508.1	1484.2	1498.6	1546.5	1550.1	1533.3	1532.1	1530.9	1514.1	1469.8	1460.2
42.5°	1604.0	1635.1	1632.7	1648.3	1637.5	1629.1	1659.1	1642.3	1629.1	1582.4	1574.0
45°	1727.4	1736.9	1768.1	1818.4	1766.9	1766.9	1787.3	1774.1	1766.9	1732.1	1699.8
47.5°	1880.7	1889.1	1951.4	1955.0	1921.4	1898.7	1962.1	1964.5	1934.6	1908.2	1868.7
50°	2060.4	2064.0	2120.3	2177.8	2140.6	2097.5	2162.2	2187.3	2120.3	2084.3	2035.2
52.5°	2258.0	2247.2	2294.0	2401.8	2365.8	2352.7	2422.1	2428.1	2337.1	2280.8	2294.0
55°	2485.6	2471.2	2598.2	2671.3	2648.5	2624.6	2655.7	2670.1	2597.0	2504.8	2537.1
57.5°	2780.3	2787.5	2851.0	2922.9	2960.0	2966.0	2980.4	2966.0	2891.7	2798.3	2768.3
60°	3075.0	3096.5	3219.9	3355.3	3367.3	3472.7	3453.5	3381.6	3276.2	3143.3	3149.3
62.5°	3184.0	3166.0	3364.9	3695.5	3977.0	4169.9	4084.8	3829.7	3585.3	3343.3	3361.3
65°	2964.8	3009.1	3279.8	3797.3	4408.2	5171.3	4718.5	4012.9	3519.4	3206.8	3172.0
67.5°	2555.1	2588.6	2932.4	3478.7	4562.8	5787.0	4958.1	3754.2	3103.7	2698.8	2720.4
70°	1780.1	1796.8	2133.4	2849.8	4137.5	5461.2	4472.9	2883.3	2143.0	1708.2	1732.1
72.5°	716.3	757.1	978.7	1716.6	3054.6	4149.5	3011.5	1512.9	888.8	661.2	600.1
75°	264.7	265.9	312.6	590.6	1450.6	2607.8	1358.4	486.3	283.9	232.4	221.6
77.5°	153.3	152.1	162.9	213.2	420.5	1018.2	385.7	190.5	154.5	139.0	133.0
80°	95.8	94.6	111.4	141.4	184.5	279.1	162.9	118.6	104.2	89.8	89.8
82.5°	61.1	62.3	87.4	104.2	112.6	123.4	94.6	83.9	77.9	51.5	50.3
85°	39.5	35.9	61.1	69.5	62.3	55.1	52.7	44.3	40.7	25.2	27.6
87.5°	18.0	19.2	31.1	34.7	22.8	13.2	13.2	9.6	9.6	6.0	6.0
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)