

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: P478814

Luminaire Tested: **IFLD-S-SA2A-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

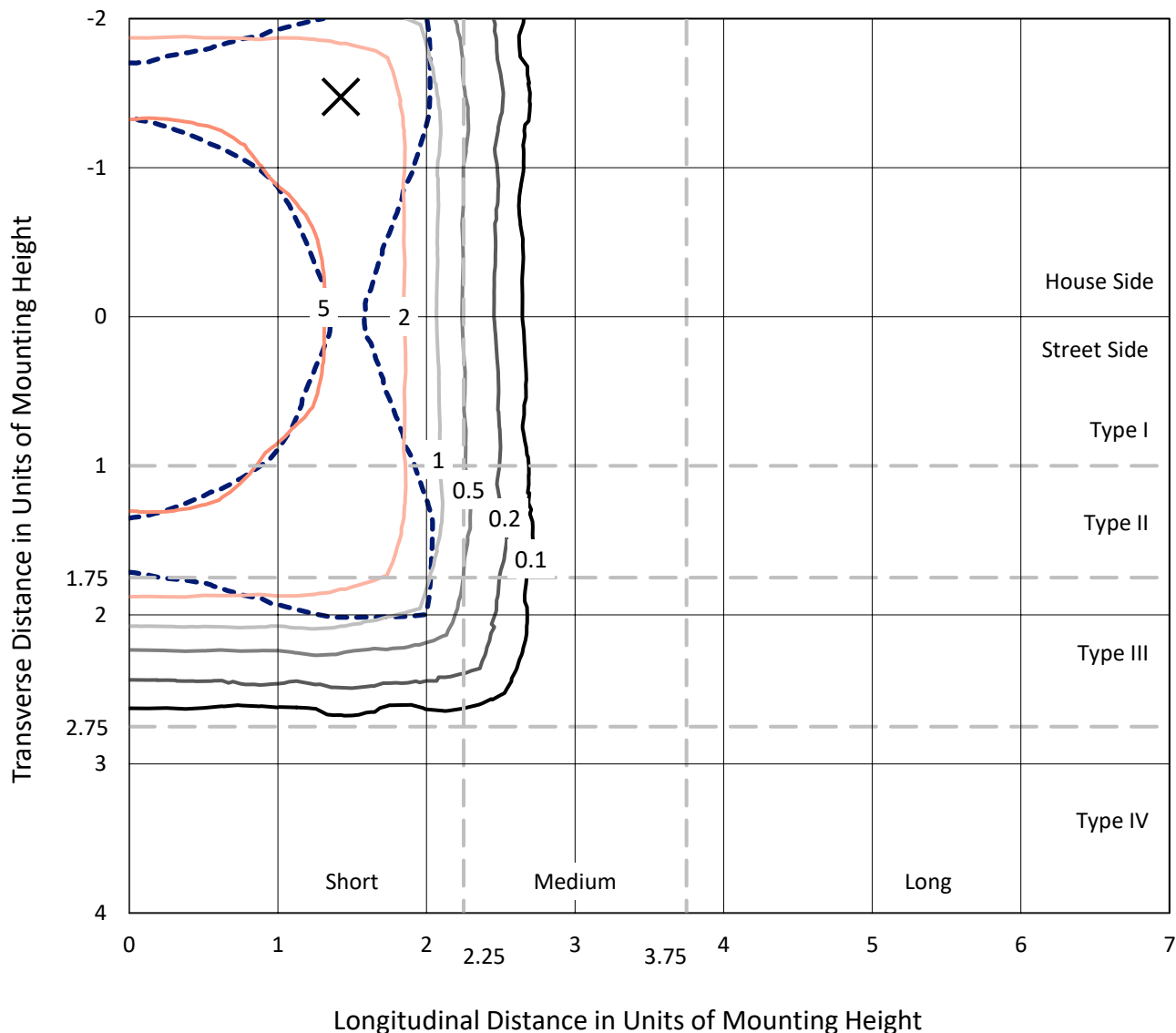
Lumens per Lamp: N/A
Luminaire Lumens: 7700.6 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

REPORT NUMBER: P478814
 CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

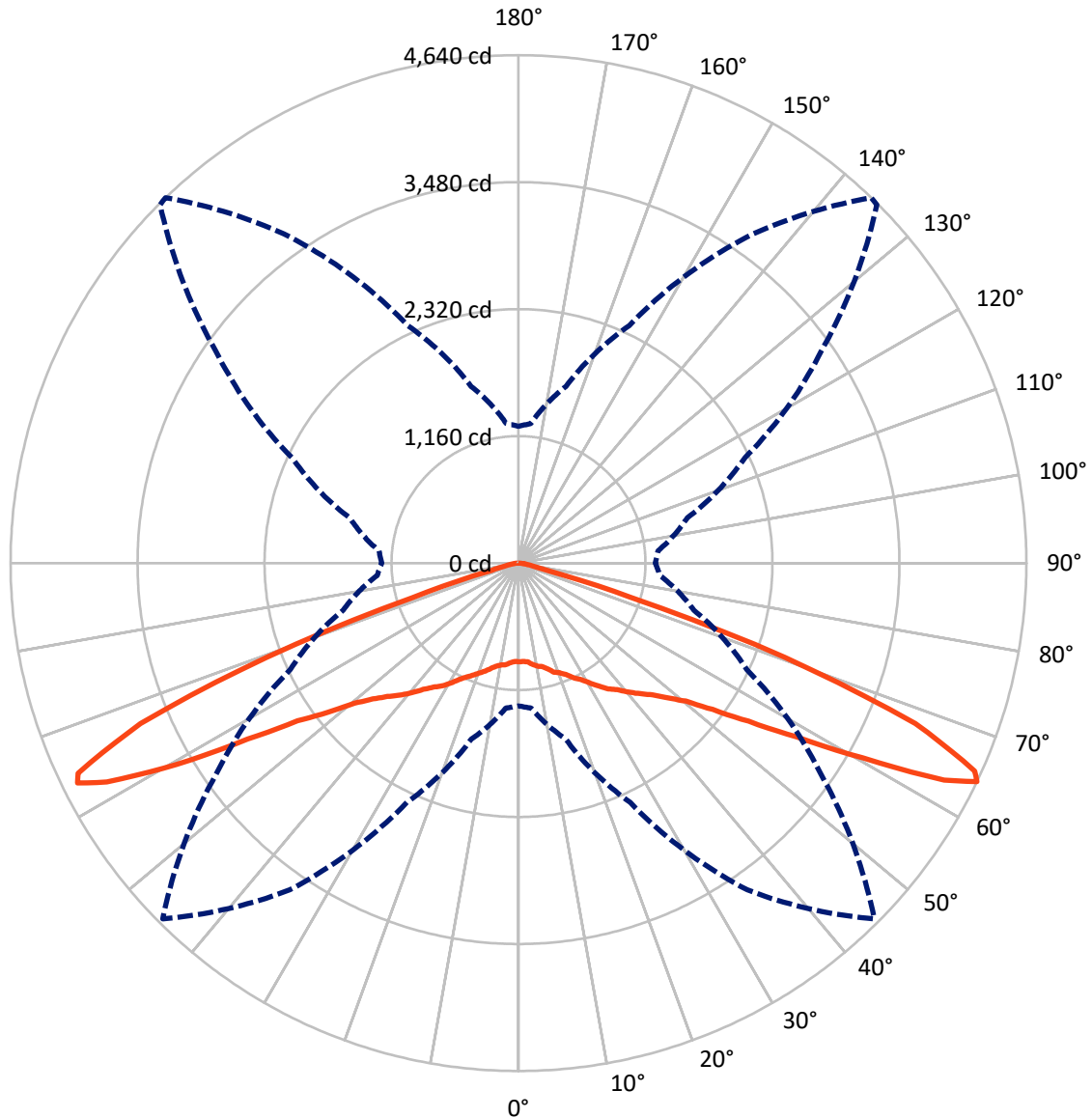
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

REPORT NUMBER: P478814
CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478814

CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3854.0	0.0	3854.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3846.7	0.0	3846.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	7700.6	0.0	7700.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.2
10°-20°	285.5	3.7
20°-30°	536.6	7.0
30°-40°	885.0	11.5
40°-50°	1384.0	18.0
50°-60°	2236.2	29.0
60°-70°	2013.6	26.1
70°-80°	238.5	3.1
80°-90°	32.7	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°	7700.6	100.0
0°-180°	7700.6	100.0

Coefficient of Utilization



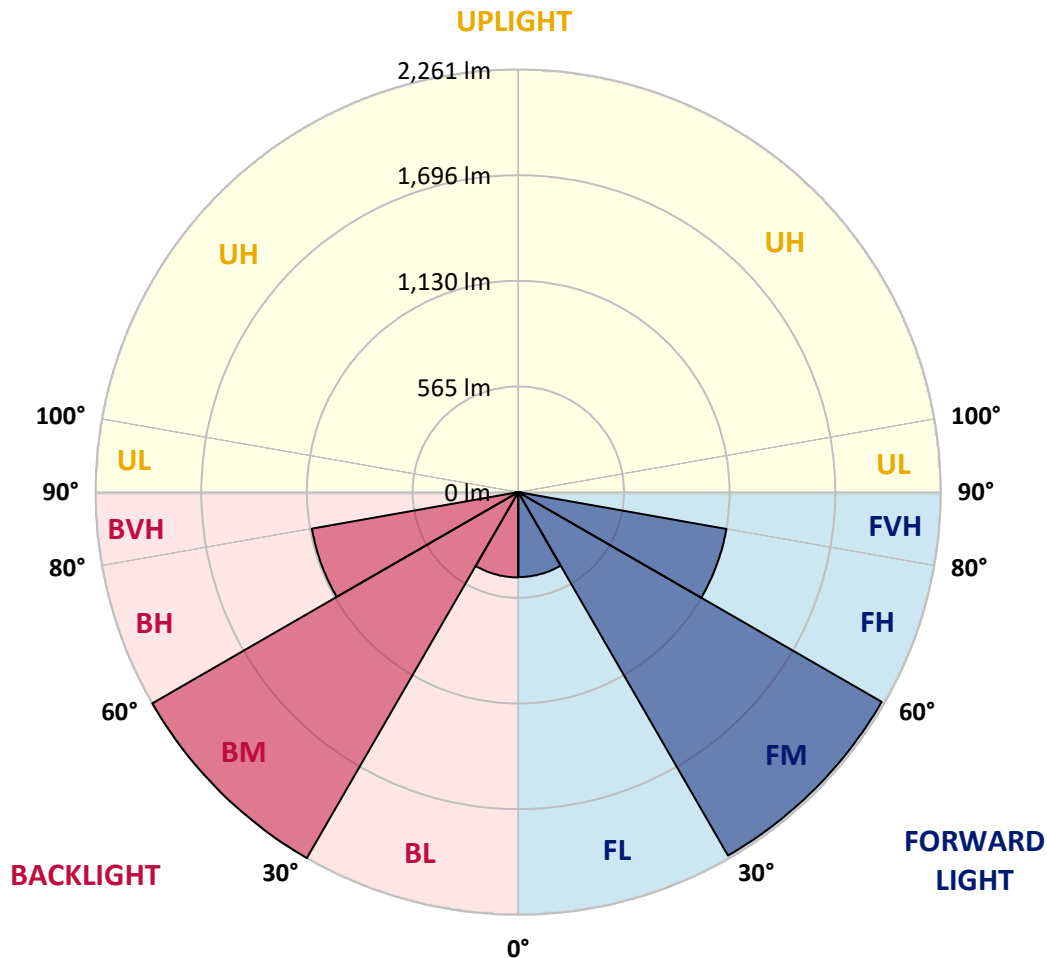
REPORT NUMBER: P478814
 CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.5	5.9			
FM (30°-60°)	2244.5	29.1			
FH (60°-80°)	1130.9	14.7			G1/1800
FVH (80°-90°)	16.8	0.2			G1/100
BL (0°-30°)	456.2	5.9	B1/500		
BM (30°-60°)	2260.7	29.4	B2/2500		
BH (60°-80°)	1121.2	14.6	B3/2500		G1/1800
BVH (80°-90°)	15.9	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





REPORT NUMBER: P478814

CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
2.5°	891.0	892.8	908.6	902.5	907.8	898.1	905.1	920.1	902.5	915.7	920.1
5°	900.7	903.4	903.4	909.5	913.1	911.3	915.7	909.5	926.3	919.2	929.8
7.5°	936.0	931.6	924.5	929.8	930.7	935.1	939.6	947.5	944.9	938.7	949.3
10°	942.2	938.7	949.3	950.2	945.7	942.2	946.6	946.6	954.6	956.3	956.3
12.5°	952.8	956.3	955.5	962.5	963.4	960.7	967.8	981.1	977.5	980.2	974.0
15°	993.4	989.0	988.1	995.2	1006.7	989.9	1002.3	1001.4	997.8	1003.1	989.0
17.5°	1028.7	1014.6	1020.8	1032.3	1027.9	1031.4	1047.3	1033.2	1036.7	1030.5	1026.1
20°	1059.6	1048.2	1049.1	1053.5	1053.5	1064.1	1070.2	1064.9	1061.4	1060.5	1062.3
22.5°	1094.1	1080.8	1081.7	1100.3	1106.5	1102.9	1098.5	1107.3	1109.1	1102.0	1110.0
25°	1119.7	1133.8	1138.2	1147.1	1133.8	1143.5	1140.0	1156.8	1167.4	1153.3	1163.0
27.5°	1186.8	1180.6	1192.1	1191.2	1201.8	1192.1	1198.3	1203.6	1208.0	1208.9	1204.5
30°	1246.9	1249.5	1238.0	1268.9	1244.2	1260.1	1270.7	1273.3	1278.6	1278.6	1265.4
32.5°	1310.4	1305.1	1323.7	1316.6	1312.2	1324.6	1313.1	1349.3	1328.1	1340.5	1325.4
35°	1382.0	1382.0	1389.0	1408.5	1382.0	1374.0	1395.2	1410.2	1410.2	1388.1	1393.4
37.5°	1462.3	1455.3	1464.1	1488.8	1468.5	1442.0	1480.9	1487.0	1482.6	1476.4	1465.8
40°	1518.8	1517.1	1534.7	1567.4	1538.3	1533.0	1540.0	1556.8	1562.1	1568.3	1554.2
42.5°	1614.2	1622.1	1673.4	1665.4	1641.6	1623.0	1621.3	1684.0	1668.9	1653.1	1645.1
45°	1755.5	1748.4	1774.9	1775.8	1744.9	1704.3	1713.1	1770.5	1796.1	1760.8	1774.0
47.5°	1867.6	1871.2	1889.7	1927.7	1856.2	1813.8	1846.4	1939.2	1931.2	1918.0	1930.3
50°	2017.7	2033.6	2091.9	2078.7	2015.1	1963.0	2034.5	2121.9	2131.7	2083.1	2074.3
52.5°	2225.3	2250.0	2281.8	2292.4	2231.4	2212.9	2217.3	2325.9	2302.1	2255.3	2225.3
55°	2407.2	2418.6	2476.9	2564.4	2559.9	2470.7	2522.0	2562.6	2465.5	2369.2	2377.1
57.5°	2484.9	2490.2	2652.7	2827.5	2931.7	2952.0	2893.7	2756.9	2525.5	2340.1	2328.6
60°	2291.5	2341.8	2537.9	2932.6	3408.5	3643.4	3255.8	2778.9	2385.1	2159.9	2143.1
62.5°	1831.4	1834.1	2125.5	2724.2	3705.2	4320.7	3394.4	2571.4	2010.7	1755.5	1688.4
64°	1304.3	1329.0	1663.6	2411.6	3643.4	4596.2	3377.6	2300.3	1657.5	1295.4	1248.6
65°	936.0	970.5	1293.7	2093.7	3498.6	4563.6	3327.3	2067.2	1340.5	989.0	941.3
67.5°	344.4	358.5	507.7	1047.3	2512.3	3888.9	2636.8	1136.5	589.0	419.4	377.1
70°	159.8	160.7	188.1	346.2	1098.5	2600.6	1258.3	426.5	221.6	175.7	163.4
72.5°	117.4	120.1	131.6	159.8	323.2	1101.2	413.3	174.8	129.8	114.8	112.1
75°	95.4	97.1	100.7	115.7	149.2	294.9	167.8	121.0	103.3	92.7	89.2
77.5°	73.3	73.3	81.2	88.3	98.9	137.8	111.3	96.3	83.9	73.3	70.6
80°	53.0	53.9	63.6	68.9	67.1	91.0	80.4	79.5	68.9	57.4	53.0
82.5°	30.9	33.6	45.9	49.5	47.7	53.9	58.3	61.8	53.9	39.7	36.2
85°	17.7	18.5	26.5	27.4	27.4	25.6	33.6	37.1	36.2	24.7	22.1
87.5°	5.3	5.3	7.1	7.1	7.9	8.8	13.2	15.9	17.7	12.4	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478814
 CATALOG NUMBER: IFLD-S-SA2A-727-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6	901.6
2.5°	915.7	902.5	903.4	906.9	895.4	899.8	913.1	903.4	900.7	895.4	892.8
5°	911.3	925.4	920.1	921.9	919.2	906.9	905.1	913.1	917.5	909.5	925.4
7.5°	942.2	936.0	929.0	931.6	925.4	936.0	943.1	927.2	935.1	930.7	921.9
10°	959.9	948.4	953.7	951.9	947.5	958.1	951.0	949.3	942.2	932.5	946.6
12.5°	966.0	979.3	988.1	973.1	975.8	970.5	966.0	966.0	958.1	955.5	958.1
15°	993.4	1004.9	1001.4	1012.8	997.8	1003.1	1008.4	995.2	1002.3	982.8	997.8
17.5°	1043.8	1034.0	1046.4	1031.4	1036.7	1047.3	1030.5	1030.5	1035.8	1025.2	1012.0
20°	1075.5	1071.1	1066.7	1067.6	1058.8	1068.5	1063.2	1060.5	1052.6	1056.1	1063.2
22.5°	1105.6	1099.4	1101.2	1103.8	1110.0	1105.6	1102.9	1105.6	1086.1	1103.8	1079.1
25°	1142.7	1159.4	1154.1	1165.6	1148.0	1159.4	1158.5	1141.8	1152.4	1145.3	1140.0
27.5°	1204.5	1195.6	1203.6	1189.5	1201.8	1202.7	1192.1	1220.4	1208.0	1206.2	1202.7
30°	1283.9	1277.8	1272.5	1264.5	1274.2	1266.3	1275.1	1277.8	1266.3	1257.5	1240.7
32.5°	1329.0	1345.8	1351.9	1332.5	1333.4	1337.8	1329.9	1321.9	1329.0	1331.6	1329.0
35°	1392.6	1408.5	1412.0	1397.0	1389.0	1411.1	1395.2	1421.7	1398.7	1399.6	1375.8
37.5°	1466.7	1471.1	1501.2	1484.4	1477.3	1466.7	1495.9	1492.3	1497.6	1455.3	1476.4
40°	1550.6	1566.5	1583.3	1540.9	1540.0	1549.7	1548.0	1568.3	1558.6	1552.4	1537.4
42.5°	1642.5	1676.0	1678.7	1650.4	1632.7	1631.0	1639.8	1684.8	1685.7	1645.1	1627.4
45°	1764.3	1801.4	1791.7	1736.9	1717.5	1714.9	1758.1	1777.6	1794.3	1778.4	1763.4
47.5°	1916.2	1940.9	1933.9	1883.5	1820.8	1838.5	1880.9	1941.8	1924.1	1903.0	1885.3
50°	2078.7	2107.8	2092.8	2042.5	1982.4	1982.4	2034.5	2112.2	2106.9	2065.4	2049.5
52.5°	2258.8	2301.2	2335.6	2264.1	2213.8	2221.7	2303.9	2332.1	2318.9	2289.7	2276.5
55°	2393.0	2474.3	2544.9	2548.5	2551.1	2550.2	2571.4	2599.7	2505.2	2458.4	2410.7
57.5°	2360.4	2514.0	2756.0	2920.2	2968.8	2994.4	2987.3	2856.6	2633.2	2479.6	2495.5
60°	2127.2	2378.0	2768.3	3295.5	3648.7	3613.4	3484.5	2967.9	2562.6	2303.0	2270.3
62.5°	1697.2	1999.2	2560.8	3401.5	4374.6	4364.0	3689.3	2710.9	2135.2	1806.7	1786.4
64°	1278.6	1596.5	2284.4	3374.1	4628.9	4639.5	3637.2	2394.8	1670.7	1278.6	1247.7
65°	978.4	1273.3	2013.3	3317.6	4574.2	4580.3	3492.4	2068.1	1269.8	907.8	874.2
67.5°	389.4	542.2	1092.3	2515.8	3927.8	3911.0	2491.9	1000.5	485.7	316.1	309.9
70°	166.0	206.6	383.2	1192.1	2629.7	2581.1	1072.9	325.0	180.1	151.0	150.1
72.5°	113.9	126.3	164.2	368.2	1093.2	1067.6	305.5	151.0	122.7	113.0	113.0
75°	91.8	100.7	119.2	154.5	289.6	279.0	143.9	111.3	98.0	91.0	90.1
77.5°	71.5	80.4	93.6	106.8	132.5	131.6	96.3	83.9	75.9	70.6	68.9
80°	56.5	65.3	74.2	75.9	86.5	84.8	65.3	66.2	61.8	51.2	50.3
82.5°	38.9	53.0	59.2	53.9	51.2	51.2	46.8	46.8	43.3	31.8	29.1
85°	23.8	35.3	37.1	31.8	23.8	23.8	25.6	24.7	23.0	16.8	15.9
87.5°	12.4	16.8	15.0	12.4	7.9	7.9	7.1	5.3	5.3	4.4	4.4
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)