

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: P479166

Luminaire Tested: **IFLD-S-SA2B-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479166
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

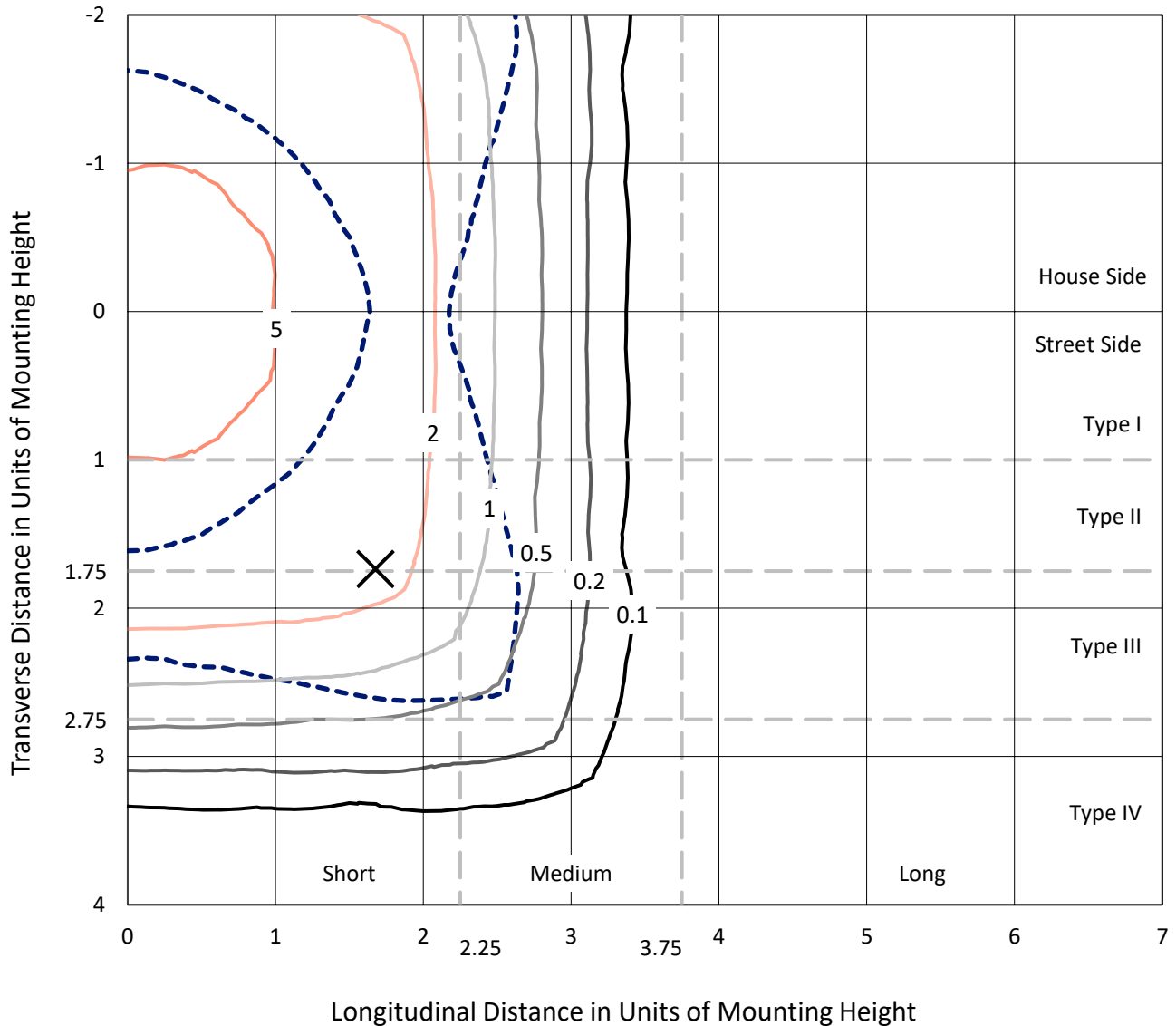
Lumens per Lamp: N/A
Luminaire Lumens: 8489.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

REPORT NUMBER: P479166
 CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

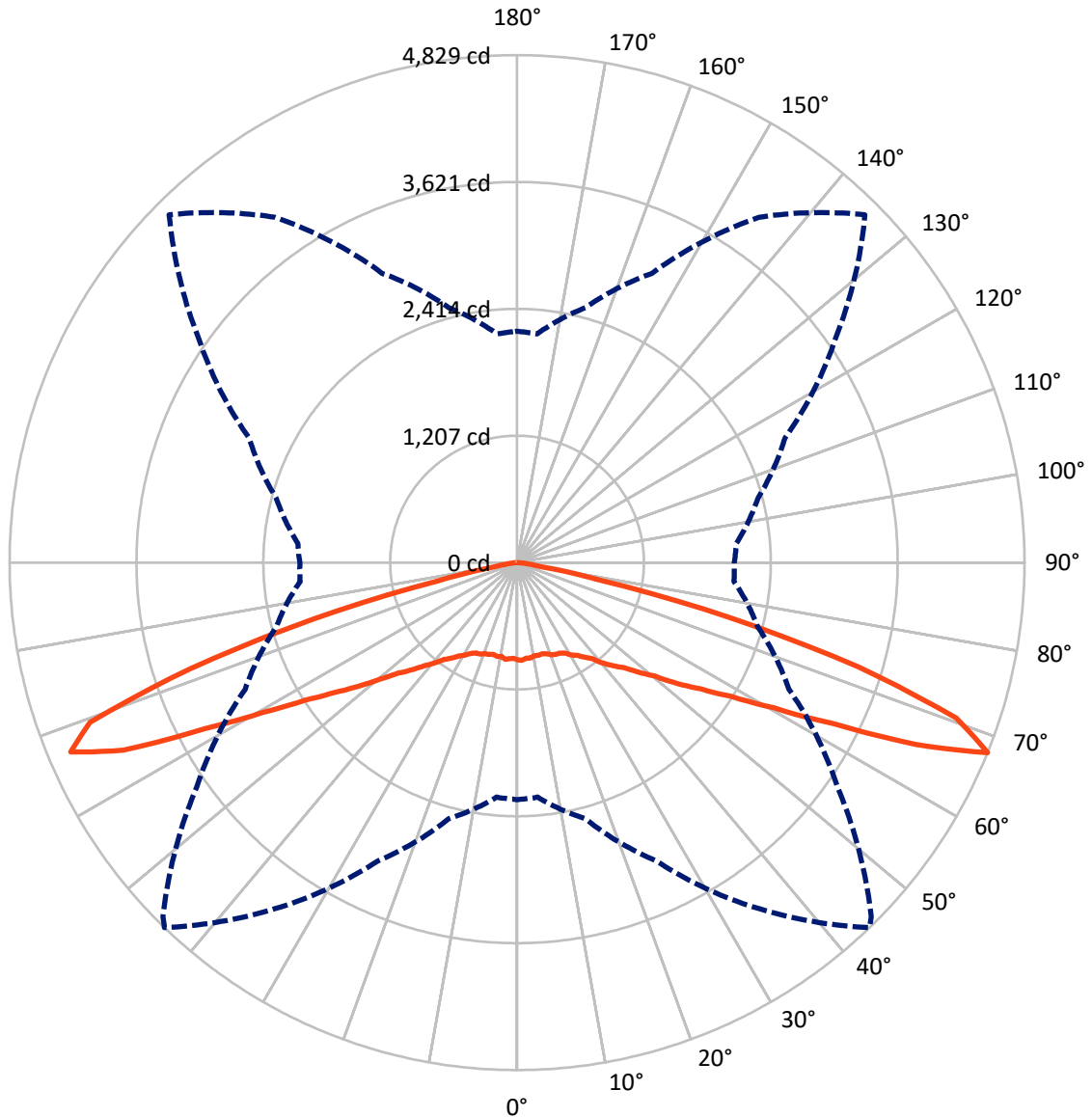
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

REPORT NUMBER: P479166
CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479166

CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

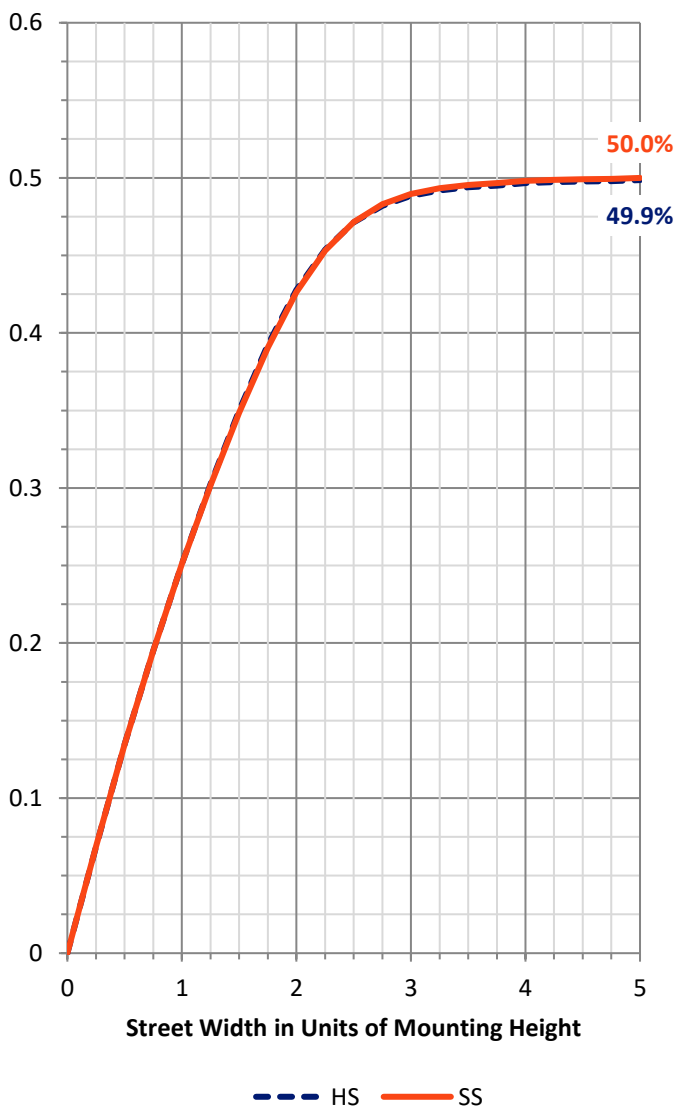
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4233.9	0.0	4233.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	4255.6	0.0	4255.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	8489.5	0.0	8489.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	256.4	3.0
20°-30°	436.0	5.1
30°-40°	691.2	8.1
40°-50°	1127.1	13.3
50°-60°	1925.0	22.7
60°-70°	2927.9	34.5
70°-80°	986.9	11.6
80°-90°	51.2	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°	8489.5	100.0
0°-180°	8489.5	100.0

Coefficient of Utilization



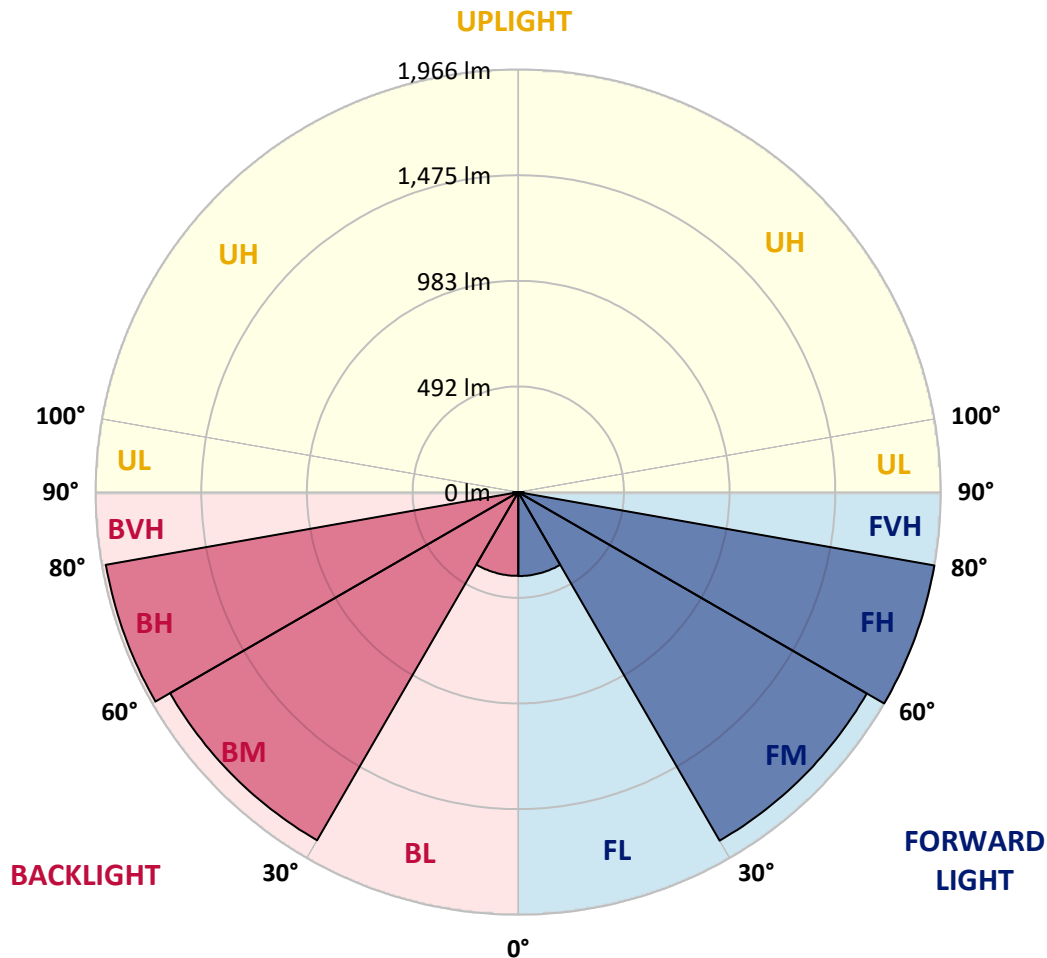
REPORT NUMBER: P479166
 CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.4	4.6			
FM (30°-60°)	1872.7	22.1			
FH (60°-80°)	1966.2	23.2			G2/5000
FVH (80°-90°)	26.2	0.3			G1/100
BL (0°-30°)	389.6	4.6	B1/500		
BM (30°-60°)	1870.7	22.0	B2/2500		
BH (60°-80°)	1948.5	23.0	B3/2500		G2/5000
BVH (80°-90°)	25.0	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





REPORT NUMBER: P479166
 CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	906.0	916.7	924.4	923.5	926.4	929.3	925.4	931.2	927.3	934.1	938.0
5°	923.5	920.5	921.5	915.7	929.3	913.8	913.8	921.5	931.2	919.6	926.4
7.5°	912.8	910.9	906.0	914.7	917.6	917.6	925.4	910.9	927.3	931.2	932.2
10°	901.2	890.5	905.0	913.8	915.7	900.2	907.0	910.9	906.0	910.9	913.8
12.5°	891.5	897.3	897.3	897.3	894.4	905.0	911.8	910.9	901.2	909.9	894.4
15°	890.5	887.6	896.3	904.1	899.2	901.2	904.1	912.8	894.4	898.3	898.3
17.5°	889.5	893.4	896.3	895.4	911.8	911.8	908.9	903.1	917.6	909.9	899.2
20°	893.4	890.5	898.3	901.2	912.8	936.0	927.3	922.5	914.7	905.0	905.0
22.5°	898.3	896.3	907.0	919.6	941.9	947.7	946.7	940.9	927.3	915.7	913.8
25°	915.7	898.3	909.9	934.1	941.9	953.5	961.2	953.5	935.1	938.0	920.5
27.5°	941.9	939.0	954.5	970.9	964.1	974.8	968.0	973.8	974.8	960.3	942.8
30°	972.9	964.1	973.8	1005.8	1008.7	1020.4	1008.7	993.2	998.1	985.5	976.7
32.5°	1017.4	1014.5	1032.9	1054.3	1058.1	1052.3	1046.5	1055.2	1034.9	1025.2	1009.7
35°	1046.5	1059.1	1081.4	1097.9	1110.5	1104.7	1107.6	1098.8	1103.7	1083.3	1076.6
37.5°	1132.8	1127.9	1132.8	1160.9	1163.8	1160.9	1163.8	1173.5	1166.7	1149.2	1131.8
40°	1214.1	1206.4	1218.0	1250.0	1248.1	1257.8	1238.4	1249.0	1249.0	1216.1	1209.3
42.5°	1275.2	1301.4	1314.9	1341.1	1350.8	1342.1	1338.2	1340.1	1361.4	1322.7	1308.1
45°	1401.2	1400.2	1440.9	1455.4	1428.3	1426.4	1418.6	1441.9	1456.4	1434.1	1428.3
47.5°	1537.8	1544.6	1567.8	1573.6	1590.1	1560.1	1560.1	1563.0	1614.3	1562.0	1534.9
50°	1660.9	1669.6	1716.1	1761.6	1730.6	1698.6	1711.2	1726.7	1754.8	1705.4	1682.2
52.5°	1810.1	1857.6	1888.6	1912.8	1935.1	1912.8	1883.7	1901.2	1956.4	1890.5	1861.4
55°	2025.2	2063.0	2092.1	2136.6	2155.0	2125.0	2122.1	2120.2	2151.2	2081.4	2041.7
57.5°	2265.5	2250.0	2296.5	2365.3	2432.2	2403.1	2394.4	2396.3	2404.1	2305.2	2275.2
60°	2564.0	2581.4	2636.6	2696.7	2767.4	2808.1	2751.0	2718.0	2724.8	2590.1	2543.6
62.5°	2734.5	2773.3	2898.3	3104.7	3247.1	3374.0	3382.8	3168.6	3025.2	2763.6	2565.9
65°	2652.1	2646.3	2881.8	3263.6	3803.3	4172.5	4117.3	3597.9	3096.9	2681.2	2415.7
67.5°	2255.8	2240.3	2525.2	3130.8	4022.3	4828.5	4765.5	3719.0	2854.7	2372.1	2071.7
70°	1453.5	1449.6	1758.7	2386.6	3591.1	4433.1	4456.4	3377.9	2323.6	1737.4	1439.9
72.5°	528.1	560.1	739.3	1282.9	2439.0	3391.5	3406.0	2501.0	1336.2	803.3	592.1
75°	194.8	200.6	233.5	416.7	1111.4	2082.4	2136.6	1213.2	474.8	261.6	213.2
77.5°	112.4	113.4	125.0	155.0	329.5	813.0	845.9	368.2	184.1	139.5	128.9
80°	76.6	75.6	88.2	100.8	131.8	230.6	245.2	154.1	116.3	96.9	81.4
82.5°	44.6	47.5	64.9	71.7	80.4	101.7	103.7	95.9	87.2	71.7	53.3
85°	27.1	22.3	35.9	39.7	46.5	45.5	45.5	52.3	56.2	50.4	30.0
87.5°	6.8	6.8	8.7	9.7	12.6	9.7	10.7	20.3	27.1	25.2	15.5
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: P479166
 CATALOG NUMBER: IFLD-S-SA2B-722-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3	927.3
2.5°	929.3	926.4	928.3	939.0	932.2	911.8	916.7	927.3	918.6	913.8	912.8
5°	925.4	931.2	924.4	926.4	933.1	916.7	919.6	933.1	927.3	929.3	918.6
7.5°	926.4	929.3	923.5	914.7	914.7	928.3	920.5	922.5	913.8	928.3	908.9
10°	920.5	912.8	906.0	910.9	908.9	905.0	902.1	907.9	899.2	911.8	898.3
12.5°	903.1	905.0	903.1	901.2	905.0	914.7	899.2	901.2	887.6	889.5	896.3
15°	896.3	902.1	900.2	910.9	915.7	901.2	912.8	901.2	890.5	884.7	895.4
17.5°	899.2	907.9	905.0	912.8	904.1	914.7	916.7	911.8	899.2	894.4	899.2
20°	902.1	899.2	903.1	916.7	929.3	918.6	918.6	915.7	904.1	897.3	897.3
22.5°	908.9	904.1	909.9	920.5	924.4	940.9	926.4	919.6	900.2	882.8	899.2
25°	922.5	925.4	929.3	925.4	946.7	944.8	942.8	938.0	907.9	908.9	906.0
27.5°	948.6	932.2	937.0	960.3	963.2	970.9	961.2	970.0	938.0	939.0	919.6
30°	980.6	963.2	978.7	999.0	998.1	1012.6	1007.8	1009.7	987.4	974.8	948.6
32.5°	1015.5	1013.6	1023.3	1035.9	1040.7	1048.5	1047.5	1047.5	1033.9	1001.0	1005.8
35°	1054.3	1067.8	1079.5	1093.0	1095.0	1104.7	1091.1	1093.0	1079.5	1055.2	1063.0
37.5°	1130.8	1129.8	1142.4	1158.9	1160.9	1153.1	1163.8	1158.9	1140.5	1124.0	1111.4
40°	1220.0	1200.6	1212.2	1251.0	1253.9	1240.3	1239.3	1238.4	1224.8	1189.0	1181.2
42.5°	1297.5	1322.7	1320.7	1333.3	1324.6	1317.8	1342.1	1328.5	1317.8	1280.0	1273.3
45°	1397.3	1405.0	1430.2	1470.9	1429.3	1429.3	1445.7	1435.1	1429.3	1401.2	1375.0
47.5°	1521.3	1528.1	1578.5	1581.4	1554.3	1535.9	1587.2	1589.1	1564.9	1543.6	1511.6
50°	1666.7	1669.6	1715.1	1761.6	1731.6	1696.7	1749.0	1769.4	1715.1	1686.0	1646.3
52.5°	1826.6	1817.8	1855.6	1942.8	1913.8	1903.1	1959.3	1964.2	1890.5	1845.0	1855.6
55°	2010.7	1999.0	2101.7	2160.9	2142.4	2123.1	2148.3	2159.9	2100.8	2026.2	2052.3
57.5°	2249.0	2254.8	2306.2	2364.3	2394.4	2399.2	2410.9	2399.2	2339.2	2263.6	2239.3
60°	2487.4	2504.8	2604.7	2714.2	2723.8	2809.1	2793.6	2735.5	2650.2	2542.6	2547.5
62.5°	2575.6	2561.1	2721.9	2989.3	3217.1	3373.1	3304.3	3097.9	2900.2	2704.5	2719.0
65°	2398.3	2434.1	2653.1	3071.7	3565.9	4183.1	3816.9	3246.1	2846.9	2594.0	2565.9
67.5°	2066.9	2094.0	2372.1	2814.0	3690.9	4681.2	4010.7	3036.8	2510.7	2183.1	2200.6
70°	1439.9	1453.5	1725.8	2305.2	3346.9	4417.6	3618.2	2332.4	1733.5	1381.8	1401.2
72.5°	579.5	612.4	791.7	1388.6	2470.9	3356.6	2436.1	1223.8	719.0	534.9	485.5
75°	214.1	215.1	252.9	477.7	1173.5	2109.5	1098.8	393.4	229.7	188.0	179.3
77.5°	124.0	123.1	131.8	172.5	340.1	823.6	312.0	154.1	125.0	112.4	107.6
80°	77.5	76.6	90.1	114.3	149.2	225.8	131.8	95.9	84.3	72.7	72.7
82.5°	49.4	50.4	70.7	84.3	91.1	99.8	76.6	67.8	63.0	41.7	40.7
85°	32.0	29.1	49.4	56.2	50.4	44.6	42.6	35.9	32.9	20.3	22.3
87.5°	14.5	15.5	25.2	28.1	18.4	10.7	10.7	7.8	7.8	4.8	4.8
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)