

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: P479243

Luminaire Tested: **IFLD-S-SA2A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479243
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

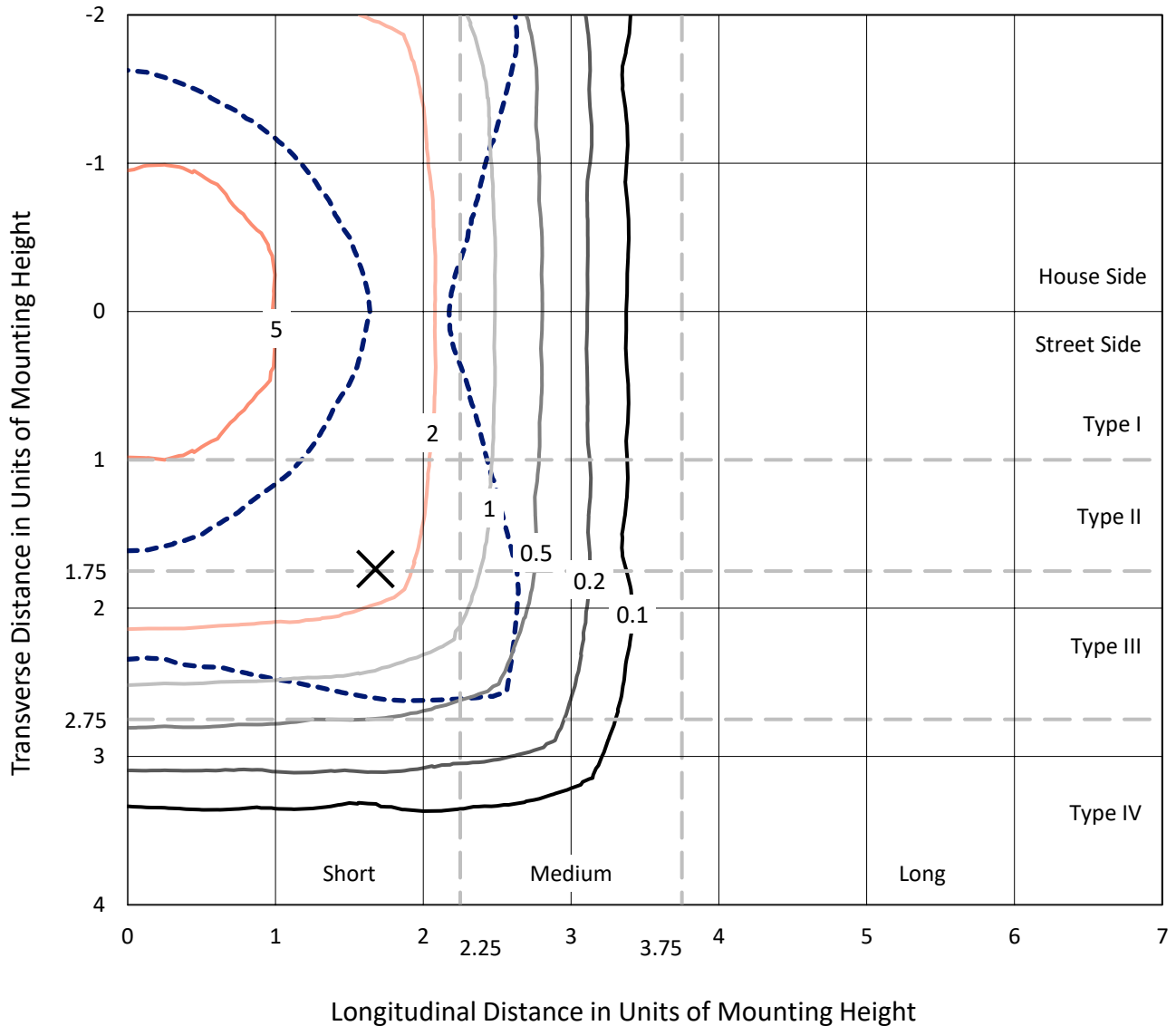
Lumens per Lamp: N/A
Luminaire Lumens: 8486 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

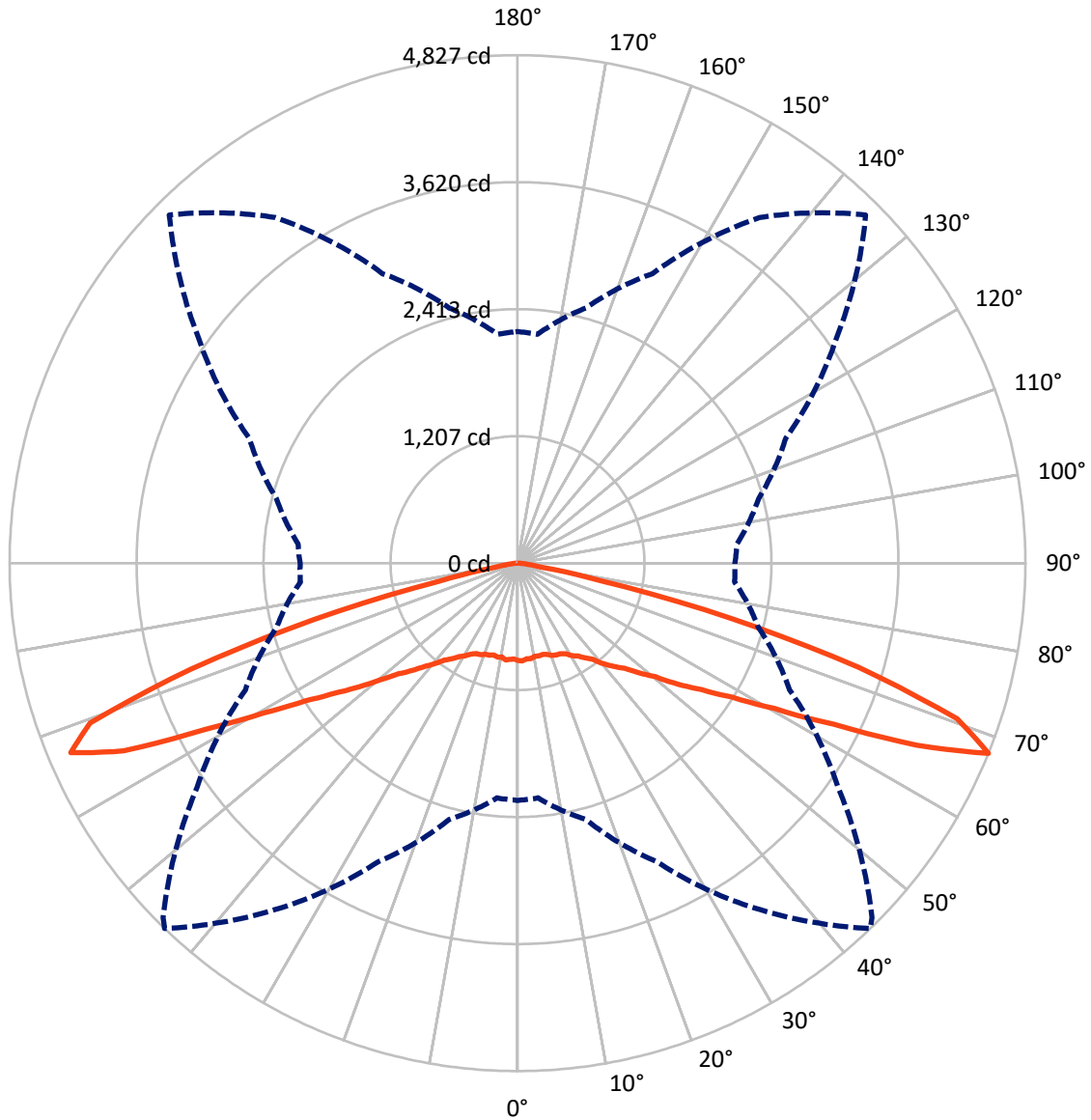
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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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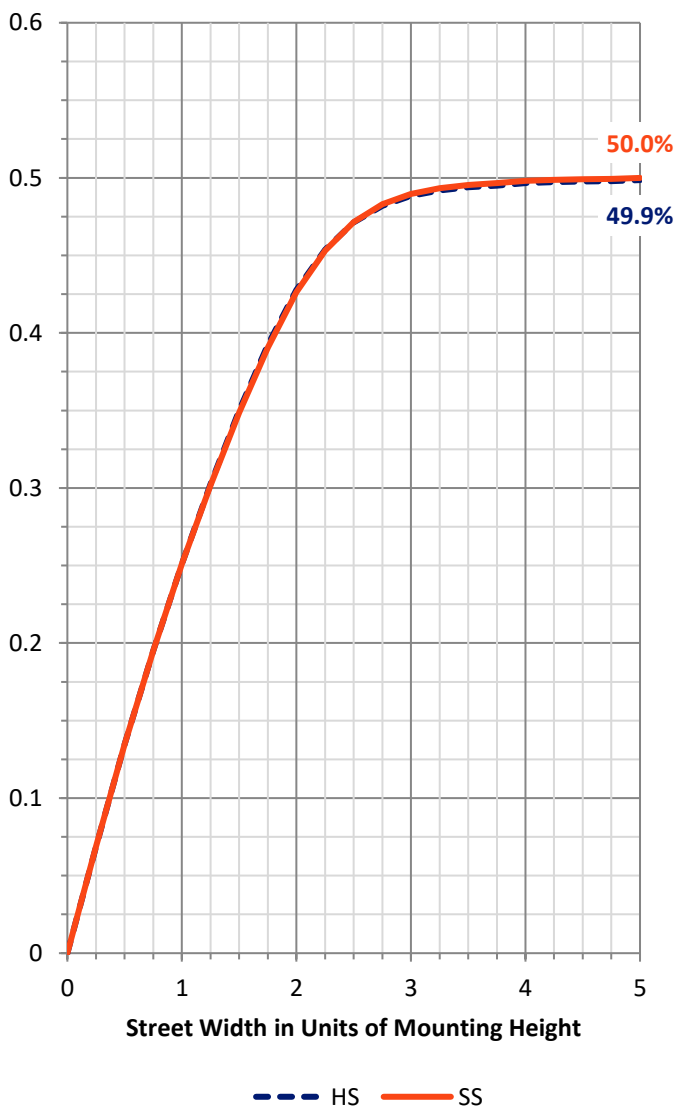
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4232.1	0.0	4232.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	4253.8	0.0	4253.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	8486.0	0.0	8486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.0
10°-20°	256.3	3.0
20°-30°	435.8	5.1
30°-40°	691.0	8.1
40°-50°	1126.7	13.3
50°-60°	1924.2	22.7
60°-70°	2926.7	34.5
70°-80°	986.5	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°	8486.0	100.0
0°-180°	8486.0	100.0

Coefficient of Utilization



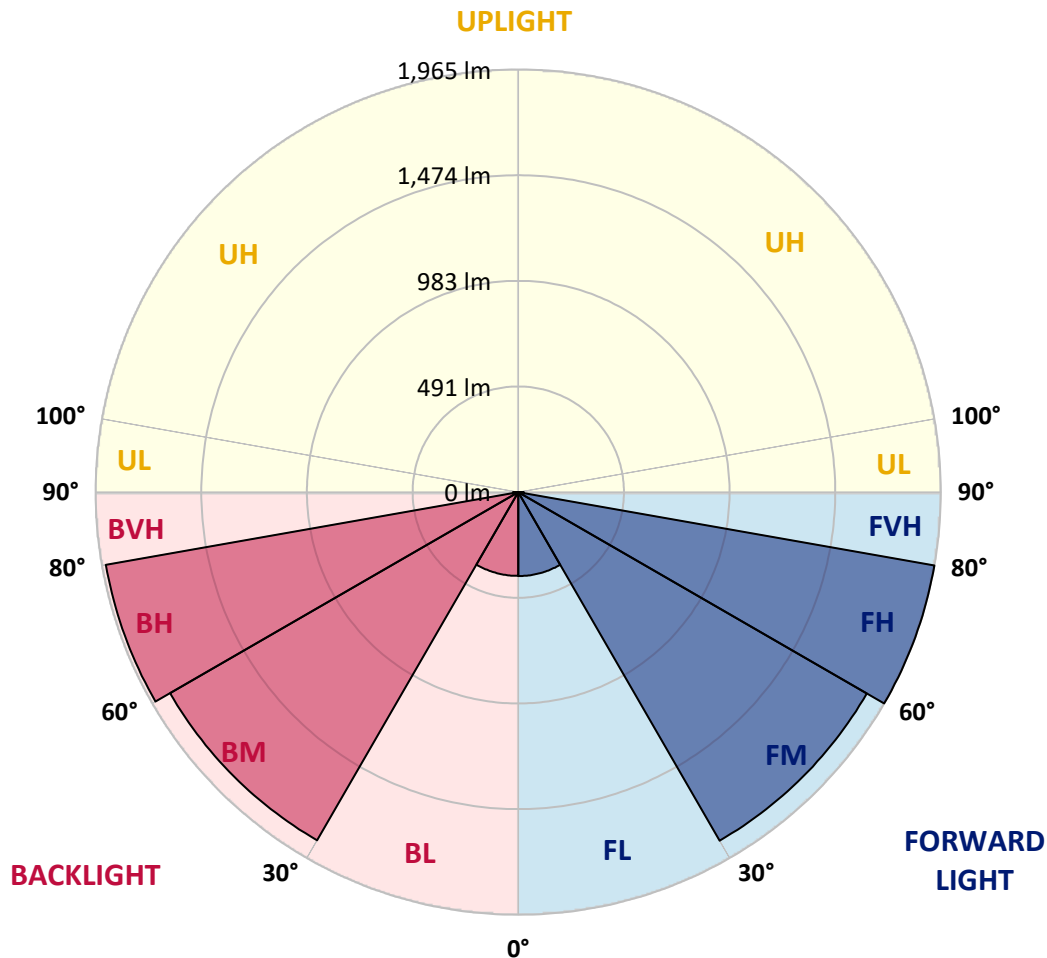
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.3	4.6			
FM (30°-60°)	1871.9	22.1			
FH (60°-80°)	1965.4	23.2			G2/5000
FVH (80°-90°)	26.2	0.3			G1/100
BL (0°-30°)	389.5	4.6	B1/500		
BM (30°-60°)	1869.9	22.0	B2/2500		
BH (60°-80°)	1947.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	905.6	916.3	924.0	923.1	926.0	928.9	925.0	930.8	926.9	933.7	937.6
5°	923.1	920.2	921.1	915.3	928.9	913.4	913.4	921.1	930.8	919.2	926.0
7.5°	912.4	910.5	905.6	914.4	917.3	917.3	925.0	910.5	926.9	930.8	931.8
10°	900.8	890.1	904.7	913.4	915.3	899.8	906.6	910.5	905.6	910.5	913.4
12.5°	891.1	896.9	896.9	896.9	894.0	904.7	911.4	910.5	900.8	909.5	894.0
15°	890.1	887.2	895.9	903.7	898.9	900.8	903.7	912.4	894.0	897.9	897.9
17.5°	889.2	893.0	895.9	895.0	911.4	911.4	908.5	902.7	917.3	909.5	898.9
20°	893.0	890.1	897.9	900.8	912.4	935.7	926.9	922.1	914.4	904.7	904.7
22.5°	897.9	895.9	906.6	919.2	941.5	947.3	946.3	940.5	926.9	915.3	913.4
25°	915.3	897.9	909.5	933.7	941.5	953.1	960.8	953.1	934.7	937.6	920.2
27.5°	941.5	938.6	954.1	970.5	963.8	974.4	967.6	973.4	974.4	959.9	942.4
30°	972.5	963.8	973.4	1005.4	1008.3	1019.9	1008.3	992.8	997.7	985.1	976.3
32.5°	1017.0	1014.1	1032.5	1053.8	1057.7	1051.9	1046.1	1054.8	1034.5	1024.8	1009.3
35°	1046.1	1058.7	1081.0	1097.4	1110.0	1104.2	1107.1	1098.4	1103.2	1082.9	1076.1
37.5°	1132.3	1127.4	1132.3	1160.4	1163.3	1160.4	1163.3	1173.0	1166.2	1148.8	1131.3
40°	1213.6	1205.9	1217.5	1249.5	1247.5	1257.2	1237.9	1248.5	1248.5	1215.6	1208.8
42.5°	1274.7	1300.8	1314.4	1340.5	1350.2	1341.5	1337.6	1339.6	1360.9	1322.1	1307.6
45°	1400.6	1399.6	1440.3	1454.8	1427.7	1425.8	1418.0	1441.3	1455.8	1433.5	1427.7
47.5°	1537.2	1543.9	1567.2	1573.0	1589.5	1559.4	1559.4	1562.3	1613.7	1561.4	1534.3
50°	1660.2	1668.9	1715.4	1760.9	1729.9	1697.9	1710.5	1726.0	1754.1	1704.7	1681.5
52.5°	1809.3	1856.8	1887.8	1912.0	1934.3	1912.0	1882.9	1900.4	1955.6	1889.7	1860.7
55°	2024.4	2062.1	2091.2	2135.7	2154.2	2124.1	2121.2	2119.3	2150.3	2080.5	2040.8
57.5°	2264.6	2249.1	2295.6	2364.3	2431.2	2402.1	2393.4	2395.3	2403.1	2304.3	2274.3
60°	2562.9	2580.3	2635.5	2695.6	2766.3	2807.0	2749.8	2716.9	2723.7	2589.1	2542.6
62.5°	2733.4	2772.1	2897.1	3103.4	3245.8	3372.6	3381.4	3167.3	3024.0	2762.4	2564.8
65°	2651.0	2645.2	2880.6	3262.2	3801.7	4170.8	4115.6	3596.4	3095.6	2680.1	2414.7
67.5°	2254.9	2239.4	2524.2	3129.5	4020.6	4826.5	4763.5	3717.5	2853.5	2371.1	2070.9
70°	1452.9	1449.0	1758.0	2385.6	3589.6	4431.3	4454.6	3376.5	2322.7	1736.7	1439.3
72.5°	527.9	559.8	739.0	1282.4	2438.0	3390.1	3404.6	2499.9	1335.7	803.0	591.8
75°	194.7	200.5	233.4	416.5	1111.0	2081.5	2135.7	1212.7	474.6	261.5	213.1
77.5°	112.4	113.3	124.9	155.0	329.3	812.7	845.6	368.1	184.0	139.5	128.8
80°	76.5	75.6	88.1	100.7	131.7	230.5	245.1	154.0	116.2	96.9	81.4
82.5°	44.6	47.5	64.9	71.7	80.4	101.7	103.6	95.9	87.2	71.7	53.3
85°	27.1	22.3	35.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9	926.9
2.5°	928.9	926.0	927.9	938.6	931.8	911.4	916.3	926.9	918.2	913.4	912.4
5°	925.0	930.8	924.0	926.0	932.8	916.3	919.2	932.8	926.9	928.9	918.2
7.5°	926.0	928.9	923.1	914.4	914.4	927.9	920.2	922.1	913.4	927.9	908.5
10°	920.2	912.4	905.6	910.5	908.5	904.7	901.8	907.6	898.9	911.4	897.9
12.5°	902.7	904.7	902.7	900.8	904.7	914.4	898.9	900.8	887.2	889.2	895.9
15°	895.9	901.8	899.8	910.5	915.3	900.8	912.4	900.8	890.1	884.3	895.0
17.5°	898.9	907.6	904.7	912.4	903.7	914.4	916.3	911.4	898.9	894.0	898.9
20°	901.8	898.9	902.7	916.3	928.9	918.2	918.2	915.3	903.7	896.9	896.9
22.5°	908.5	903.7	909.5	920.2	924.0	940.5	926.0	919.2	899.8	882.4	898.9
25°	922.1	925.0	928.9	925.0	946.3	944.4	942.4	937.6	907.6	908.5	905.6
27.5°	948.3	931.8	936.6	959.9	962.8	970.5	960.8	969.6	937.6	938.6	919.2
30°	980.2	962.8	978.3	998.6	997.7	1012.2	1007.3	1009.3	987.0	974.4	948.3
32.5°	1015.1	1013.1	1022.8	1035.4	1040.3	1048.0	1047.1	1047.1	1033.5	1000.6	1005.4
35°	1053.8	1067.4	1079.0	1092.6	1094.5	1104.2	1090.6	1092.6	1079.0	1054.8	1062.5
37.5°	1130.3	1129.4	1142.0	1158.4	1160.4	1152.6	1163.3	1158.4	1140.0	1123.6	1111.0
40°	1219.5	1200.1	1211.7	1250.5	1253.4	1239.8	1238.8	1237.9	1224.3	1188.5	1180.7
42.5°	1296.9	1322.1	1320.2	1332.8	1324.1	1317.3	1341.5	1327.9	1317.3	1279.5	1272.7
45°	1396.7	1404.5	1429.6	1470.3	1428.7	1428.7	1445.1	1434.5	1428.7	1400.6	1374.4
47.5°	1520.7	1527.5	1577.8	1580.7	1553.6	1535.2	1586.6	1588.5	1564.3	1543.0	1511.0
50°	1666.0	1668.9	1714.4	1760.9	1730.9	1696.0	1748.3	1768.7	1714.4	1685.4	1645.6
52.5°	1825.8	1817.1	1854.9	1942.0	1913.0	1902.3	1958.5	1963.3	1889.7	1844.2	1854.9
55°	2009.8	1998.2	2100.9	2160.0	2141.6	2122.2	2147.4	2159.0	2099.9	2025.3	2051.5
57.5°	2248.1	2253.9	2305.3	2363.4	2393.4	2398.2	2409.9	2398.2	2338.2	2262.6	2238.4
60°	2486.4	2503.8	2603.6	2713.0	2722.7	2808.0	2792.5	2734.3	2649.1	2541.6	2546.4
62.5°	2574.5	2560.0	2720.8	2988.1	3215.7	3371.7	3302.9	3096.6	2899.0	2703.3	2717.9
65°	2397.3	2433.1	2652.0	3070.4	3564.4	4181.4	3815.3	3244.8	2845.7	2592.9	2564.8
67.5°	2066.0	2093.1	2371.1	2812.8	3689.4	4679.3	4009.0	3035.6	2509.6	2182.2	2199.7
70°	1439.3	1452.9	1725.1	2304.3	3345.5	4415.8	3616.7	2331.4	1732.8	1381.2	1400.6
72.5°	579.2	612.2	791.3	1388.0	2469.9	3355.2	2435.0	1223.3	718.7	534.7	485.3
75°	214.1	215.0	252.8	477.5	1173.0	2108.6	1098.4	393.2	229.6	187.9	179.2
77.5°	124.0	123.0	131.7	172.4	340.0	823.3	311.9	154.0	124.9	112.4	107.5
80°	77.5	76.5	90.1	114.3	149.2	225.7	131.7	95.9	84.3	72.6	72.6
82.5°	49.4	50.4	70.7	84.3	91.0	99.8	76.5	67.8	63.0	41.6	40.7
85°	32.0	29.1	49.4	56.2	50.4	44.6	42.6	35.8	32.9	20.3	22.3
87.5°	14.5	15.5	25.2	28.1	18.4	10.7	10.7	7.7	7.7	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)