

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: P479205

Luminaire Tested: **IFLD-S-SA2B-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479205
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

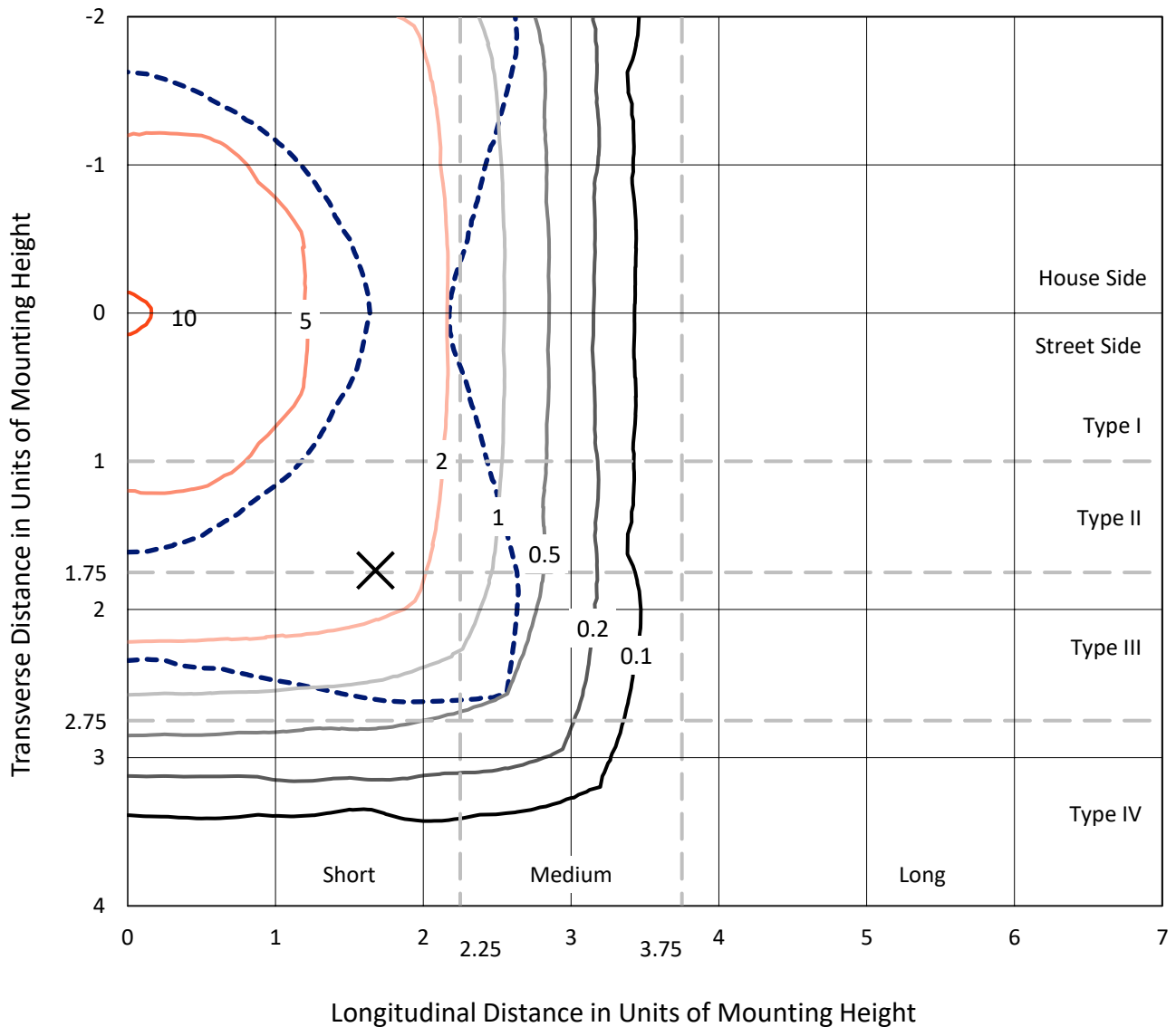
Lumens per Lamp: N/A
Luminaire Lumens: 9638.5 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

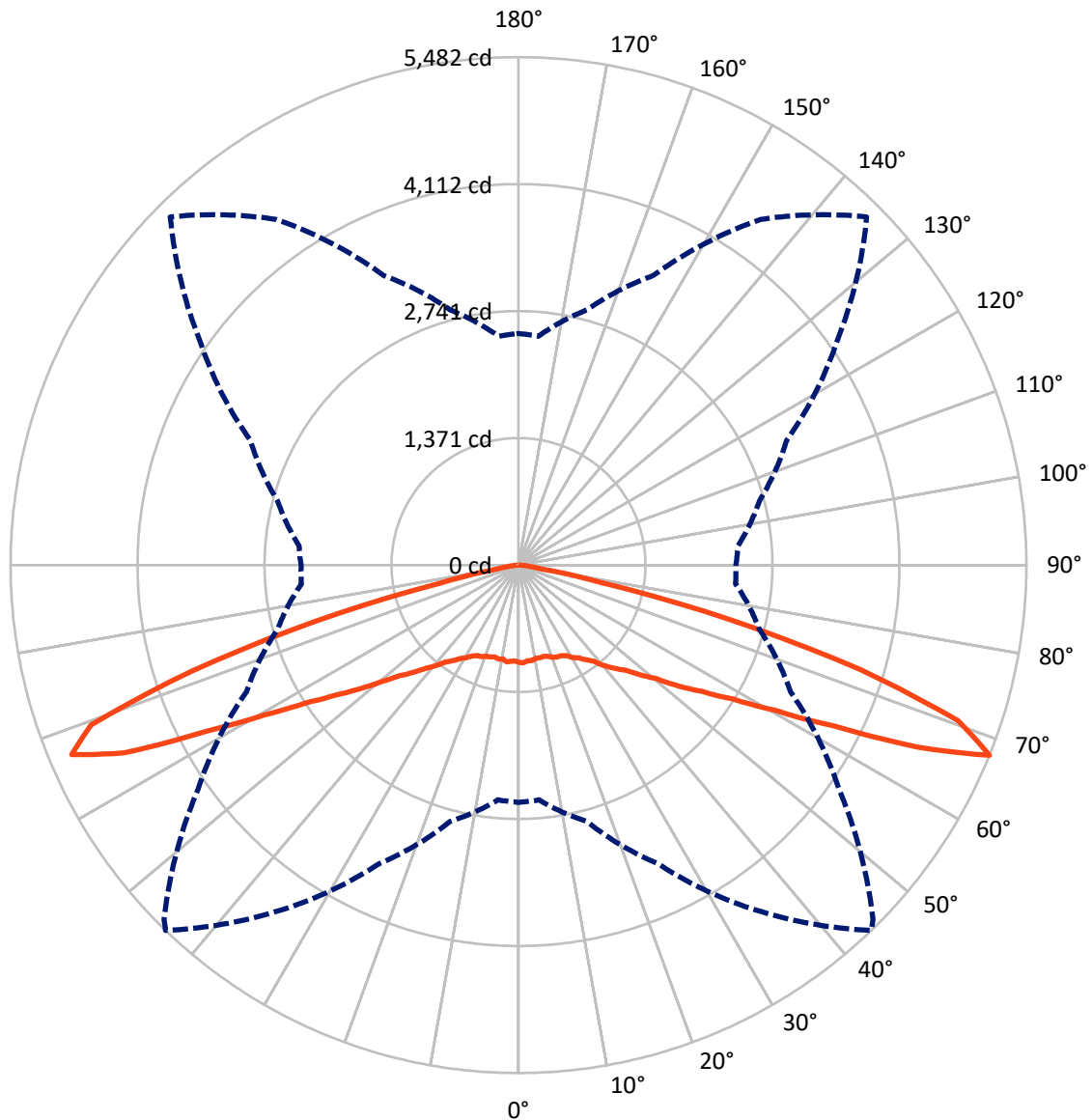
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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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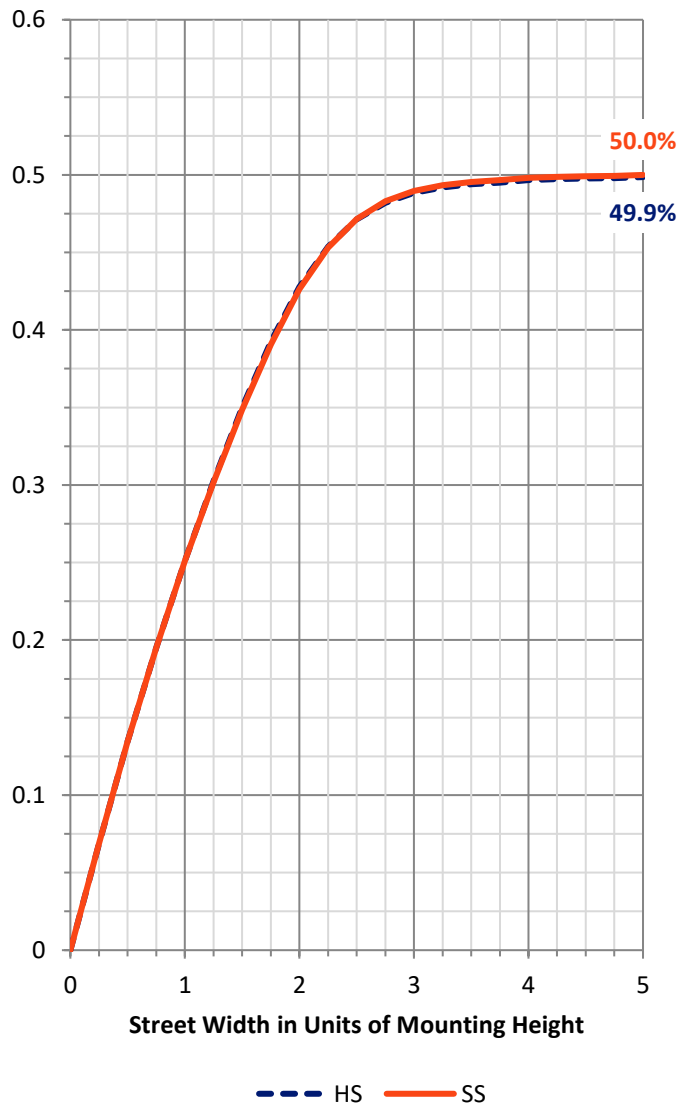
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4806.9	0.0	4806.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	4831.6	0.0	4831.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	9638.5	0.0	9638.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.0
10°-20°	291.1	3.0
20°-30°	495.0	5.1
30°-40°	784.8	8.1
40°-50°	1279.7	13.3
50°-60°	2185.5	22.7
60°-70°	3324.2	34.5
70°-80°	1120.5	11.6
80°-90°	58.2	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°	9638.5	100.0
0°-180°	9638.5	100.0

Coefficient of Utilization



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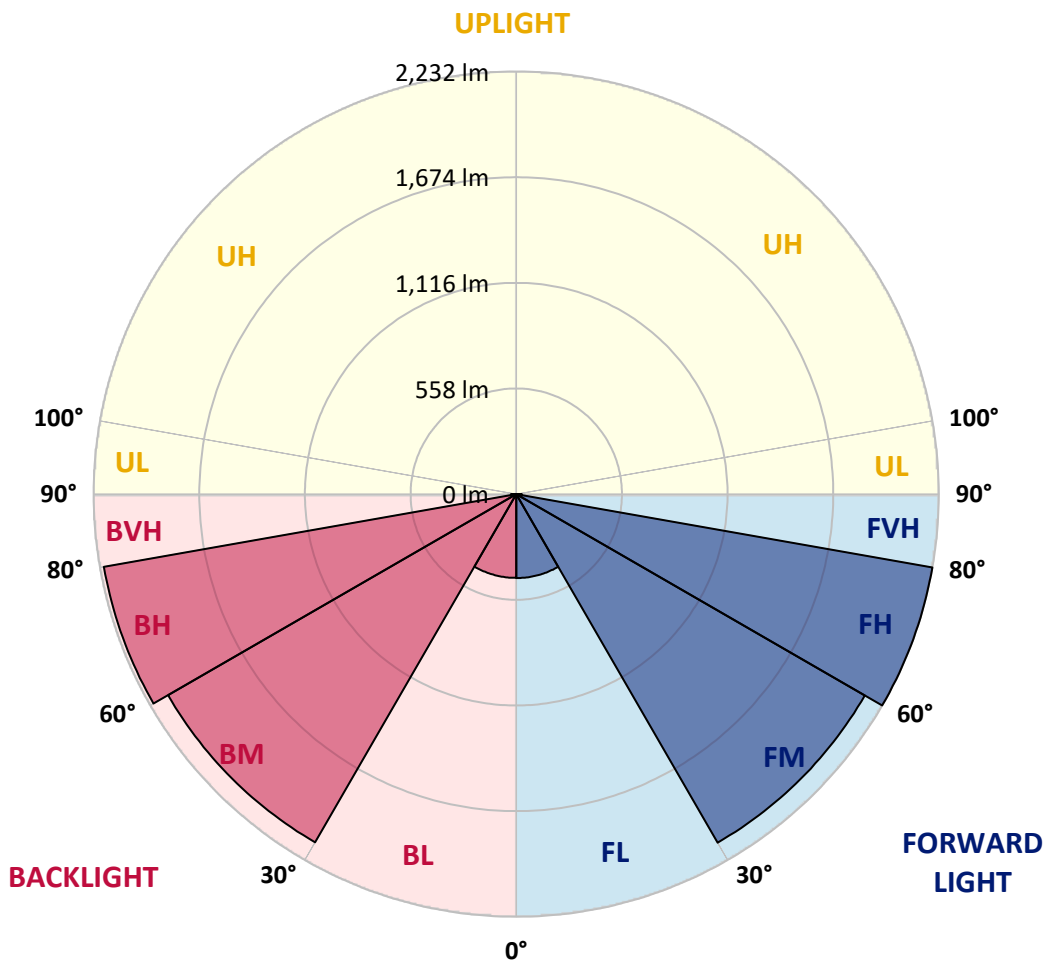
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.3	4.6			
FM (30°-60°)	2126.2	22.1			
FH (60°-80°)	2232.4	23.2			G2/5000
FVH (80°-90°)	29.8	0.3			G1/100
BL (0°-30°)	442.4	4.6	B1/500		
BM (30°-60°)	2123.9	22.0	B2/2500		
BH (60°-80°)	2212.3	23.0	B3/2500		G2/5000
BVH (80°-90°)	28.4	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°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8
2.5°	1028.6	1040.7	1049.5	1048.4	1051.7	1055.0	1050.6	1057.2	1052.8	1060.5	1064.9
5°	1048.4	1045.1	1046.2	1039.6	1055.0	1037.4	1037.4	1046.2	1057.2	1044.0	1051.7
7.5°	1036.3	1034.1	1028.6	1038.5	1041.8	1041.8	1050.6	1034.1	1052.8	1057.2	1058.3
10°	1023.1	1011.0	1027.5	1037.4	1039.6	1022.0	1029.7	1034.1	1028.6	1034.1	1037.4
12.5°	1012.1	1018.7	1018.7	1018.7	1015.4	1027.5	1035.2	1034.1	1023.1	1033.0	1015.4
15°	1011.0	1007.7	1017.6	1026.4	1020.9	1023.1	1026.4	1036.3	1015.4	1019.8	1019.8
17.5°	1009.9	1014.3	1017.6	1016.5	1035.2	1035.2	1031.9	1025.3	1041.8	1033.0	1020.9
20°	1014.3	1011.0	1019.8	1023.1	1036.3	1062.7	1052.8	1047.3	1038.5	1027.5	1027.5
22.5°	1019.8	1017.6	1029.7	1044.0	1069.3	1075.9	1074.8	1068.2	1052.8	1039.6	1037.4
25°	1039.6	1019.8	1033.0	1060.5	1069.3	1082.5	1091.3	1082.5	1061.6	1064.9	1045.1
27.5°	1069.3	1066.0	1083.6	1102.3	1094.6	1106.7	1099.0	1105.6	1106.7	1090.2	1070.4
30°	1104.5	1094.6	1105.6	1142.0	1145.3	1158.5	1145.3	1127.7	1133.2	1118.9	1108.9
32.5°	1155.2	1151.9	1172.8	1197.0	1201.4	1194.8	1188.2	1198.1	1175.0	1164.0	1146.4
35°	1188.2	1202.5	1227.8	1246.5	1260.8	1254.2	1257.5	1247.6	1253.1	1230.0	1222.3
37.5°	1286.1	1280.6	1286.1	1318.0	1321.3	1318.0	1321.3	1332.3	1324.6	1304.8	1285.0
40°	1378.5	1369.7	1382.9	1419.2	1417.0	1428.0	1406.0	1418.1	1418.1	1380.7	1373.0
42.5°	1447.8	1477.5	1492.9	1522.6	1533.6	1523.7	1519.3	1521.5	1545.7	1501.7	1485.2
45°	1590.8	1589.7	1635.9	1652.4	1621.6	1619.4	1610.6	1637.0	1653.5	1628.2	1621.6
47.5°	1745.9	1753.6	1780.0	1786.6	1805.3	1771.2	1771.2	1774.5	1832.8	1773.4	1742.6
50°	1885.7	1895.6	1948.4	2000.1	1964.9	1928.6	1942.9	1960.5	1992.4	1936.3	1909.9
52.5°	2055.1	2109.0	2144.2	2171.7	2197.0	2171.7	2138.7	2158.5	2221.2	2146.4	2113.4
55°	2299.3	2342.2	2375.2	2425.8	2446.7	2412.6	2409.3	2407.1	2442.3	2363.1	2318.0
57.5°	2572.1	2554.5	2607.4	2685.5	2761.4	2728.4	2718.5	2720.7	2729.5	2617.3	2583.1
60°	2911.0	2930.8	2993.5	3061.7	3142.0	3188.2	3123.3	3085.9	3093.6	2940.7	2887.9
62.5°	3104.6	3148.6	3290.5	3524.9	3686.6	3830.7	3840.6	3597.5	3434.7	3137.6	2913.2
65°	3011.1	3004.5	3271.8	3705.3	4318.1	4737.2	4674.5	4084.9	3516.1	3044.1	2742.7
67.5°	2561.1	2543.5	2867.0	3554.6	4566.7	5482.0	5410.5	4222.4	3241.0	2693.2	2352.1
70°	1650.2	1645.8	1996.8	2709.7	4077.2	5033.2	5059.6	3835.1	2638.2	1972.6	1634.8
72.5°	599.6	635.9	839.4	1456.6	2769.1	3850.5	3867.0	2839.5	1517.1	912.0	672.2
75°	221.1	227.7	265.1	473.1	1261.9	2364.2	2425.8	1377.4	539.1	297.0	242.0
77.5°	127.6	128.7	141.9	176.0	374.1	923.0	960.4	418.1	209.0	158.4	146.3
80°	86.9	85.8	100.1	114.4	149.6	261.8	278.3	174.9	132.0	110.0	92.4
82.5°	50.6	53.9	73.7	81.4	91.3	115.5	117.7	108.9	99.0	81.4	60.5
85°	30.8	25.3	40.7	45.1	52.8	51.7	51.7	59.4	63.8	57.2	34.1
87.5°	7.7	7.7	9.9	11.0	14.3	11.0	12.1	23.1	30.8	28.6	17.6
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°	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8	1052.8
2.5°	1055.0	1051.7	1053.9	1066.0	1058.3	1035.2	1040.7	1052.8	1042.9	1037.4	1036.3
5°	1050.6	1057.2	1049.5	1051.7	1059.4	1040.7	1044.0	1059.4	1052.8	1055.0	1042.9
7.5°	1051.7	1055.0	1048.4	1038.5	1038.5	1053.9	1045.1	1047.3	1037.4	1053.9	1031.9
10°	1045.1	1036.3	1028.6	1034.1	1031.9	1027.5	1024.2	1030.8	1020.9	1035.2	1019.8
12.5°	1025.3	1027.5	1025.3	1023.1	1027.5	1038.5	1020.9	1023.1	1007.7	1009.9	1017.6
15°	1017.6	1024.2	1022.0	1034.1	1039.6	1023.1	1036.3	1023.1	1011.0	1004.4	1016.5
17.5°	1020.9	1030.8	1027.5	1036.3	1026.4	1038.5	1040.7	1035.2	1020.9	1015.4	1020.9
20°	1024.2	1020.9	1025.3	1040.7	1055.0	1042.9	1042.9	1039.6	1026.4	1018.7	1018.7
22.5°	1031.9	1026.4	1033.0	1045.1	1049.5	1068.2	1051.7	1044.0	1022.0	1002.2	1020.9
25°	1047.3	1050.6	1055.0	1050.6	1074.8	1072.6	1070.4	1064.9	1030.8	1031.9	1028.6
27.5°	1077.0	1058.3	1063.8	1090.2	1093.5	1102.3	1091.3	1101.2	1064.9	1066.0	1044.0
30°	1113.4	1093.5	1111.2	1134.3	1133.2	1149.7	1144.2	1146.4	1121.1	1106.7	1077.0
32.5°	1153.0	1150.8	1161.8	1176.1	1181.6	1190.4	1189.3	1189.3	1173.9	1136.5	1142.0
35°	1197.0	1212.4	1225.6	1241.0	1243.2	1254.2	1238.8	1241.0	1225.6	1198.1	1206.9
37.5°	1283.9	1282.8	1297.1	1315.8	1318.0	1309.2	1321.3	1315.8	1294.9	1276.2	1261.9
40°	1385.1	1363.1	1376.3	1420.3	1423.6	1408.2	1407.1	1406.0	1390.6	1349.9	1341.1
42.5°	1473.1	1501.7	1499.5	1513.8	1503.9	1496.2	1523.7	1508.3	1496.2	1453.3	1445.6
45°	1586.4	1595.2	1623.8	1670.0	1622.7	1622.7	1641.4	1629.3	1622.7	1590.8	1561.1
47.5°	1727.2	1734.9	1792.1	1795.4	1764.6	1743.7	1802.0	1804.2	1776.7	1752.5	1716.2
50°	1892.3	1895.6	1947.3	2000.1	1966.0	1926.4	1985.8	2008.9	1947.3	1914.3	1869.2
52.5°	2073.8	2063.9	2106.8	2205.8	2172.8	2160.7	2224.5	2230.0	2146.4	2094.7	2106.8
55°	2282.8	2269.6	2386.2	2453.3	2432.4	2410.4	2439.0	2452.2	2385.1	2300.4	2330.1
57.5°	2553.4	2560.0	2618.4	2684.4	2718.5	2724.0	2737.2	2724.0	2655.8	2569.9	2542.4
60°	2824.1	2843.9	2957.2	3081.5	3092.5	3189.3	3171.7	3105.7	3008.9	2886.8	2892.3
62.5°	2924.2	2907.7	3090.3	3394.0	3652.5	3829.6	3751.5	3517.2	3292.7	3070.5	3087.0
65°	2722.9	2763.6	3012.2	3487.5	4048.5	4749.3	4333.5	3685.5	3232.2	2945.1	2913.2
67.5°	2346.6	2377.4	2693.2	3194.8	4190.5	5314.8	4553.5	3447.9	2850.5	2478.6	2498.4
70°	1634.8	1650.2	1959.4	2617.3	3799.9	5015.6	4108.0	2648.1	1968.2	1568.8	1590.8
72.5°	657.9	695.3	898.8	1576.5	2805.4	3810.9	2765.8	1389.5	816.3	607.3	551.2
75°	243.1	244.2	287.1	542.4	1332.3	2395.0	1247.6	446.7	260.7	213.4	203.5
77.5°	140.8	139.7	149.6	195.8	386.2	935.1	354.2	174.9	141.9	127.6	122.1
80°	88.0	86.9	102.3	129.8	169.4	256.3	149.6	108.9	95.7	82.5	82.5
82.5°	56.1	57.2	80.3	95.7	103.4	113.3	86.9	77.0	71.5	47.3	46.2
85°	36.3	33.0	56.1	63.8	57.2	50.6	48.4	40.7	37.4	23.1	25.3
87.5°	16.5	17.6	28.6	31.9	20.9	12.1	12.1	8.8	8.8	5.5	5.5
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)