

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: P479087

Luminaire Tested: **IFLD-S-SA2A-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7316.7 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

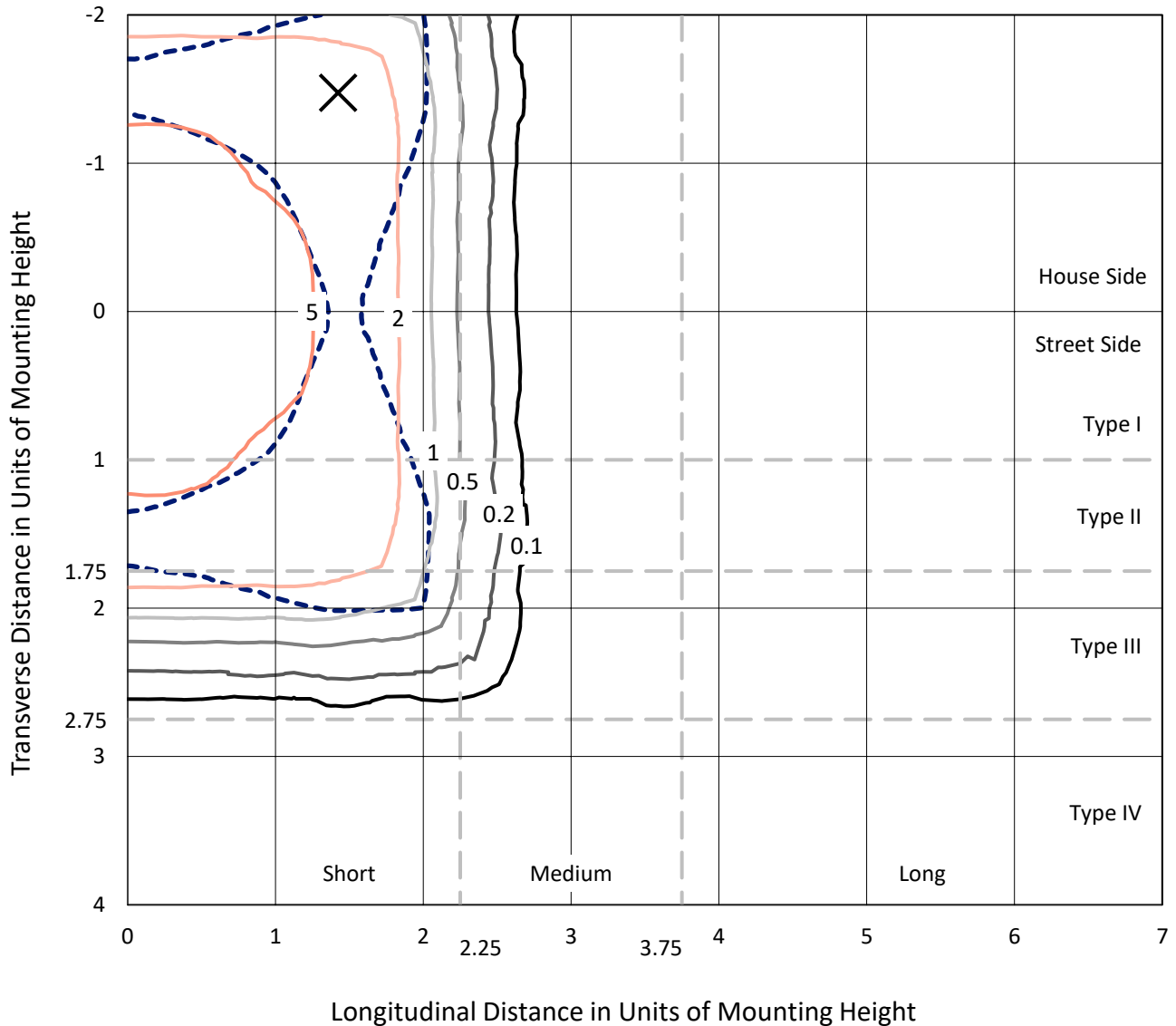
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

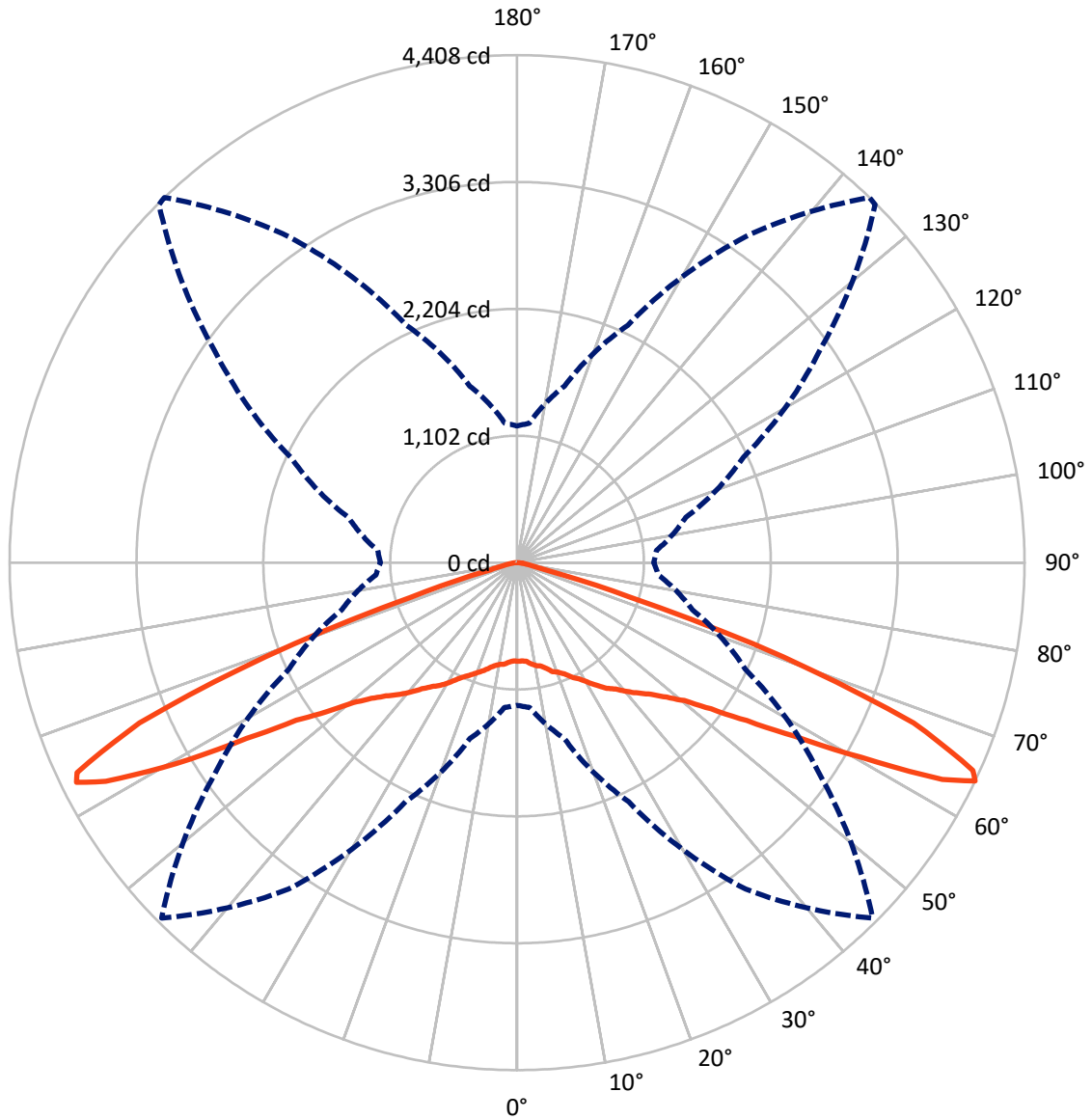
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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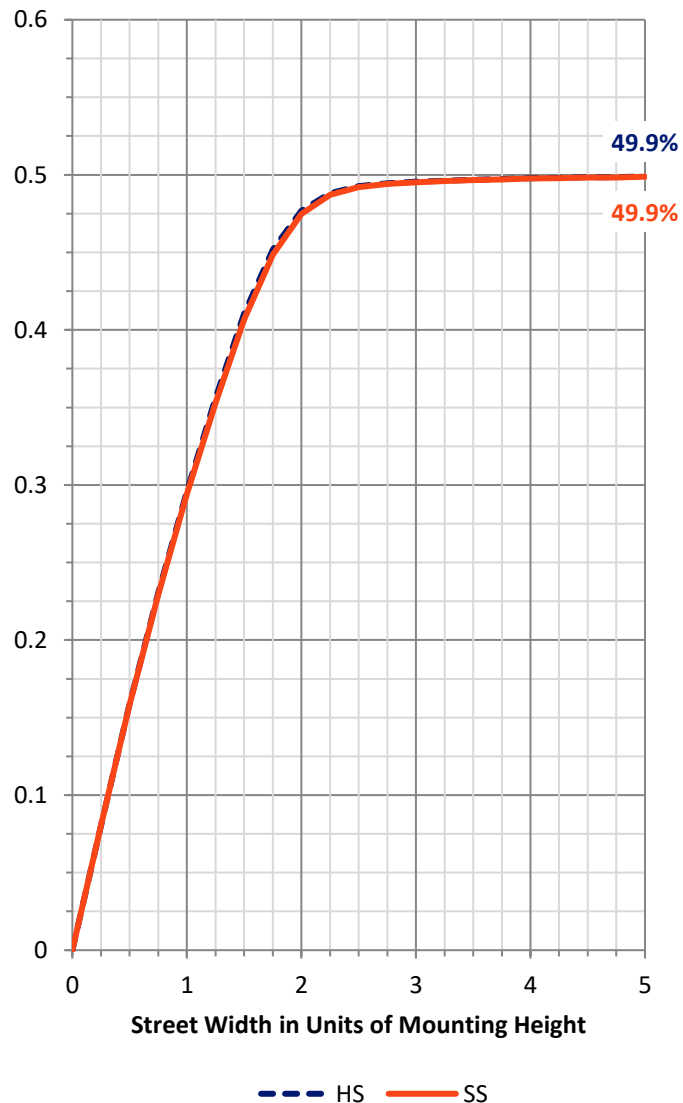
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3661.8	0.0	3661.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3654.8	0.0	3654.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	7316.7	0.0	7316.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.2
10°-20°	271.3	3.7
20°-30°	509.8	7.0
30°-40°	840.8	11.5
40°-50°	1315.0	18.0
50°-60°	2124.7	29.0
60°-70°	1913.2	26.1
70°-80°	226.6	3.1
80°-90°	31.0	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°	7316.7	100.0
0°-180°	7316.7	100.0

Coefficient of Utilization



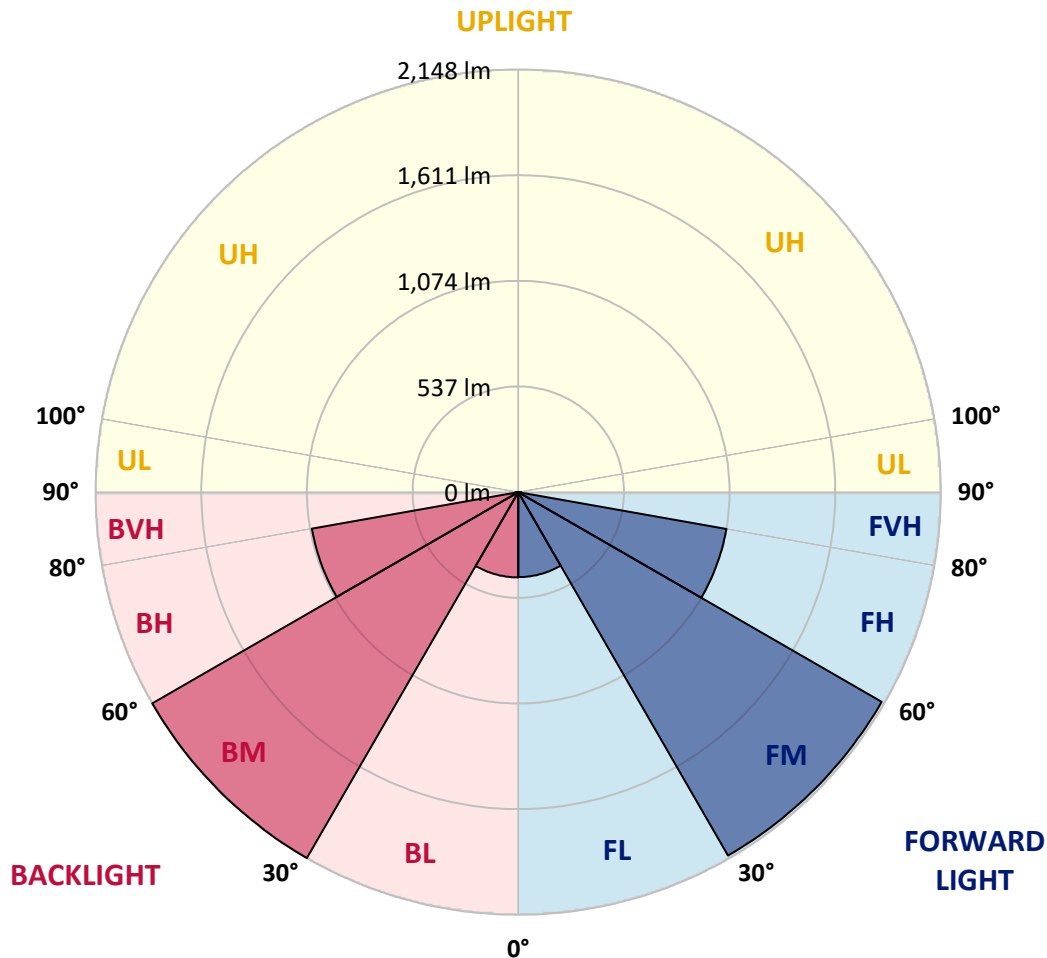
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	431.8	5.9			
FM (30°-60°)	2132.6	29.1			
FH (60°-80°)	1074.5	14.7			G1/1800
FVH (80°-90°)	15.9	0.2			G1/100
BL (0°-30°)	433.5	5.9	B1/500		
BM (30°-60°)	2148.0	29.4	B2/2500		
BH (60°-80°)	1065.3	14.6	B3/2500		G1/1800
BVH (80°-90°)	15.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	846.6	848.2	863.3	857.5	862.5	853.3	860.0	874.2	857.5	870.1	874.2
5°	855.8	858.3	858.3	864.2	867.5	865.9	870.1	864.2	880.1	873.4	883.5
7.5°	889.4	885.2	878.4	883.5	884.3	888.5	892.7	900.3	897.7	891.9	901.9
10°	895.2	891.9	901.9	902.8	898.6	895.2	899.4	899.4	907.0	908.6	908.6
12.5°	905.3	908.6	907.8	914.5	915.4	912.8	919.6	932.1	928.8	931.3	925.4
15°	943.9	939.7	938.9	945.6	956.5	940.5	952.3	951.4	948.1	953.1	939.7
17.5°	977.4	964.0	969.9	980.8	976.6	980.0	995.1	981.6	985.0	979.1	974.9
20°	1006.8	995.9	996.7	1000.9	1000.9	1011.0	1016.9	1011.8	1008.5	1007.7	1009.3
22.5°	1039.5	1026.9	1027.8	1045.4	1051.3	1047.9	1043.7	1052.1	1053.8	1047.1	1054.6
25°	1063.9	1077.3	1081.5	1089.9	1077.3	1086.5	1083.2	1099.1	1109.2	1095.7	1105.0
27.5°	1127.6	1121.8	1132.7	1131.8	1141.9	1132.7	1138.5	1143.6	1147.8	1148.6	1144.4
30°	1184.7	1187.2	1176.3	1205.7	1182.2	1197.3	1207.3	1209.9	1214.9	1214.9	1202.3
32.5°	1245.1	1240.1	1257.7	1251.0	1246.8	1258.5	1247.6	1282.0	1261.9	1273.6	1259.4
35°	1313.1	1313.1	1319.8	1338.2	1313.1	1305.5	1325.6	1339.9	1339.9	1318.9	1324.0
37.5°	1389.4	1382.7	1391.1	1414.6	1395.3	1370.1	1407.0	1412.9	1408.7	1402.8	1392.8
40°	1443.1	1441.4	1458.2	1489.2	1461.6	1456.5	1463.2	1479.2	1484.2	1490.1	1476.7
42.5°	1533.7	1541.3	1589.9	1582.4	1559.7	1542.1	1540.4	1600.0	1585.7	1570.6	1563.1
45°	1668.0	1661.2	1686.4	1687.2	1657.9	1619.3	1627.7	1682.2	1706.5	1673.0	1685.6
47.5°	1774.5	1777.9	1795.5	1831.6	1763.6	1723.3	1754.4	1842.5	1834.9	1822.3	1834.1
50°	1917.1	1932.2	1987.6	1975.0	1914.6	1865.1	1933.1	2016.1	2025.4	1979.2	1970.8
52.5°	2114.3	2137.8	2168.0	2178.1	2120.2	2102.6	2106.8	2210.0	2187.3	2142.8	2114.3
55°	2287.1	2298.0	2353.4	2436.5	2432.3	2347.6	2396.2	2434.8	2342.5	2251.1	2258.6
57.5°	2361.0	2366.0	2520.4	2686.5	2785.5	2804.8	2749.4	2619.4	2399.6	2223.4	2212.5
60°	2177.2	2225.1	2411.3	2786.4	3238.6	3461.8	3093.4	2640.4	2266.2	2052.2	2036.3
62.5°	1740.1	1742.6	2019.5	2588.3	3520.5	4105.3	3225.2	2443.2	1910.4	1668.0	1604.2
64°	1239.2	1262.7	1580.7	2291.3	3461.8	4367.0	3209.2	2185.6	1574.8	1230.8	1186.4
65°	889.4	922.1	1229.2	1989.3	3324.2	4336.0	3161.4	1964.1	1273.6	939.7	894.4
67.5°	327.2	340.6	482.4	995.1	2387.0	3695.0	2505.3	1079.8	559.6	398.5	358.3
70°	151.9	152.7	178.7	328.9	1043.7	2470.9	1195.6	405.2	210.6	167.0	155.2
72.5°	111.6	114.1	125.0	151.9	307.1	1046.2	392.7	166.1	123.3	109.1	106.6
75°	90.6	92.3	95.6	109.9	141.8	280.2	159.4	114.9	98.2	88.1	84.7
77.5°	69.6	69.6	77.2	83.9	94.0	130.9	105.7	91.5	79.7	69.6	67.1
80°	50.3	51.2	60.4	65.4	63.8	86.4	76.3	75.5	65.4	54.5	50.3
82.5°	29.4	31.9	43.6	47.0	45.3	51.2	55.4	58.7	51.2	37.8	34.4
85°	16.8	17.6	25.2	26.0	26.0	24.3	31.9	35.2	34.4	23.5	21.0
87.5°	5.0	5.0	6.7	6.7	7.6	8.4	12.6	15.1	16.8	11.7	10.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	870.1	857.5	858.3	861.7	850.8	855.0	867.5	858.3	855.8	850.8	848.2
5°	865.9	879.3	874.2	875.9	873.4	861.7	860.0	867.5	871.7	864.2	879.3
7.5°	895.2	889.4	882.6	885.2	879.3	889.4	896.1	881.0	888.5	884.3	875.9
10°	912.0	901.1	906.1	904.5	900.3	910.3	903.6	901.9	895.2	886.0	899.4
12.5°	917.9	930.5	938.9	924.6	927.1	922.1	917.9	917.9	910.3	907.8	910.3
15°	943.9	954.8	951.4	962.3	948.1	953.1	958.1	945.6	952.3	933.8	948.1
17.5°	991.7	982.5	994.2	980.0	985.0	995.1	979.1	979.1	984.2	974.1	961.5
20°	1021.9	1017.7	1013.5	1014.4	1006.0	1015.2	1010.2	1007.7	1000.1	1003.5	1010.2
22.5°	1050.4	1044.6	1046.2	1048.8	1054.6	1050.4	1047.9	1050.4	1032.0	1048.8	1025.3
25°	1085.7	1101.6	1096.6	1107.5	1090.7	1101.6	1100.8	1084.8	1094.9	1088.2	1083.2
27.5°	1144.4	1136.0	1143.6	1130.1	1141.9	1142.7	1132.7	1159.5	1147.8	1146.1	1142.7
30°	1219.9	1214.0	1209.0	1201.5	1210.7	1203.1	1211.5	1214.0	1203.1	1194.8	1178.8
32.5°	1262.7	1278.7	1284.5	1266.1	1266.9	1271.1	1263.5	1256.0	1262.7	1265.2	1262.7
35°	1323.1	1338.2	1341.6	1327.3	1319.8	1340.7	1325.6	1350.8	1329.0	1329.8	1307.2
37.5°	1393.6	1397.8	1426.3	1410.4	1403.7	1393.6	1421.3	1417.9	1423.0	1382.7	1402.8
40°	1473.3	1488.4	1504.3	1464.1	1463.2	1472.5	1470.8	1490.1	1480.9	1475.0	1460.7
42.5°	1560.6	1592.4	1595.0	1568.1	1551.3	1549.7	1558.0	1600.8	1601.7	1563.1	1546.3
45°	1676.3	1711.6	1702.4	1650.3	1631.9	1629.4	1670.5	1688.9	1704.9	1689.8	1675.5
47.5°	1820.7	1844.1	1837.4	1789.6	1730.0	1746.8	1787.1	1845.0	1828.2	1808.1	1791.3
50°	1975.0	2002.7	1988.5	1940.6	1883.6	1883.6	1933.1	2006.9	2001.9	1962.4	1947.3
52.5°	2146.2	2186.5	2219.2	2151.2	2103.4	2111.0	2189.0	2215.8	2203.2	2175.6	2163.0
55°	2273.7	2350.9	2418.0	2421.4	2423.9	2423.1	2443.2	2470.0	2380.3	2335.8	2290.5
57.5°	2242.7	2388.7	2618.6	2774.6	2820.8	2845.1	2838.4	2714.2	2501.9	2355.9	2371.0
60°	2021.2	2259.5	2630.3	3131.2	3466.8	3433.2	3310.7	2819.9	2434.8	2188.1	2157.1
62.5°	1612.6	1899.5	2433.1	3231.9	4156.5	4146.4	3505.4	2575.8	2028.7	1716.6	1697.3
64°	1214.9	1516.9	2170.5	3205.9	4398.1	4408.2	3455.9	2275.4	1587.4	1214.9	1185.5
65°	929.6	1209.9	1912.9	3152.2	4346.1	4351.9	3318.3	1965.0	1206.5	862.5	830.6
67.5°	370.0	515.2	1037.9	2390.3	3731.9	3716.0	2367.7	950.6	461.5	300.4	294.5
70°	157.7	196.3	364.1	1132.7	2498.6	2452.4	1019.4	308.8	171.2	143.5	142.6
72.5°	108.2	120.0	156.1	349.9	1038.7	1014.4	290.3	143.5	116.6	107.4	107.4
75°	87.3	95.6	113.3	146.8	275.2	265.1	136.8	105.7	93.1	86.4	85.6
77.5°	68.0	76.3	88.9	101.5	125.9	125.0	91.5	79.7	72.2	67.1	65.4
80°	53.7	62.1	70.5	72.2	82.2	80.5	62.1	62.9	58.7	48.7	47.8
82.5°	36.9	50.3	56.2	51.2	48.7	48.7	44.5	44.5	41.1	30.2	27.7
85°	22.7	33.6	35.2	30.2	22.7	22.7	24.3	23.5	21.8	15.9	15.1
87.5°	11.7	15.9	14.3	11.7	7.6	7.6	6.7	5.0	5.0	4.2	4.2
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)