

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: P480725

Luminaire Tested: **IFLD-S-SA2A-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

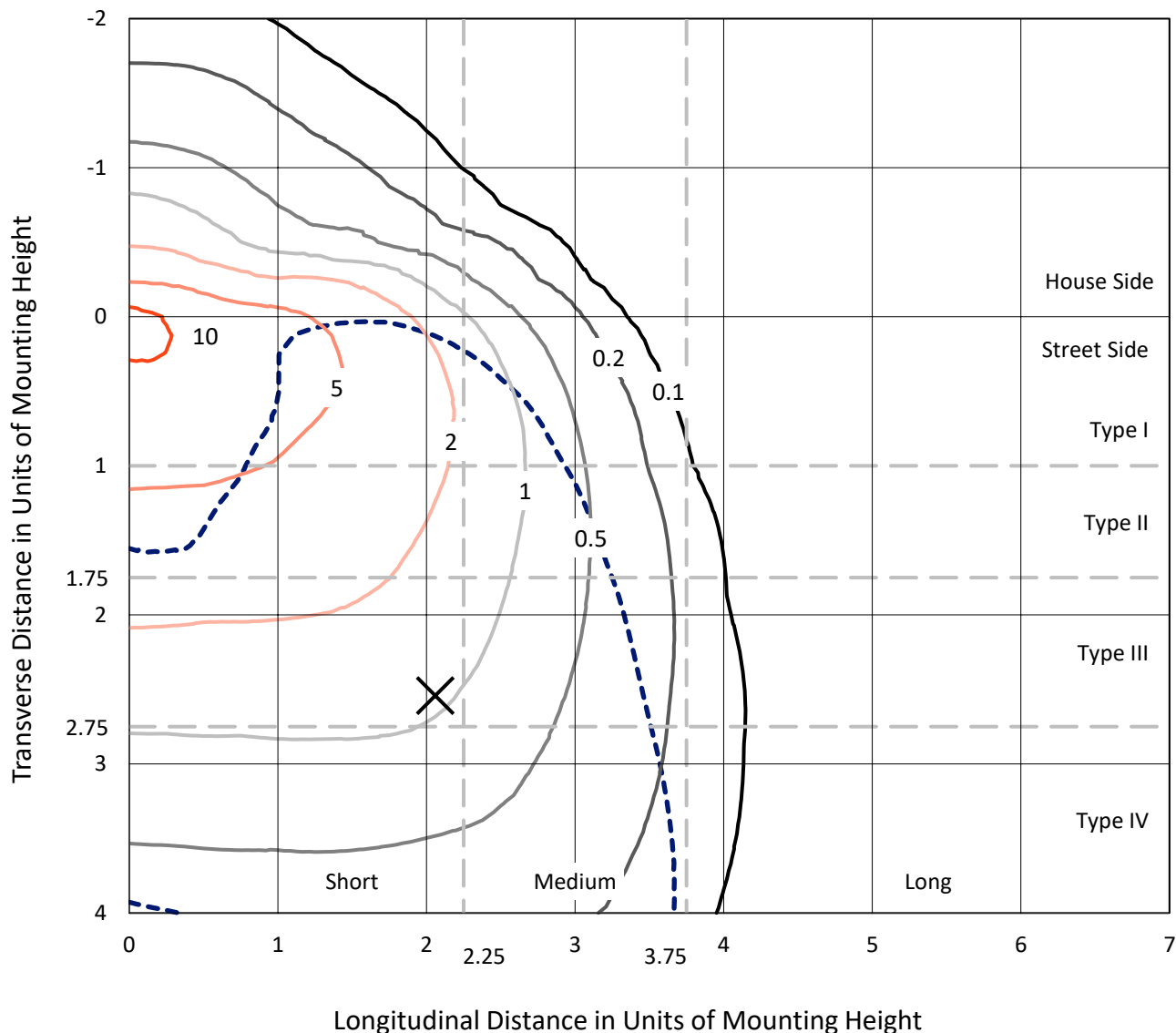
Lumens per Lamp: N/A
Luminaire Lumens: 6577.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

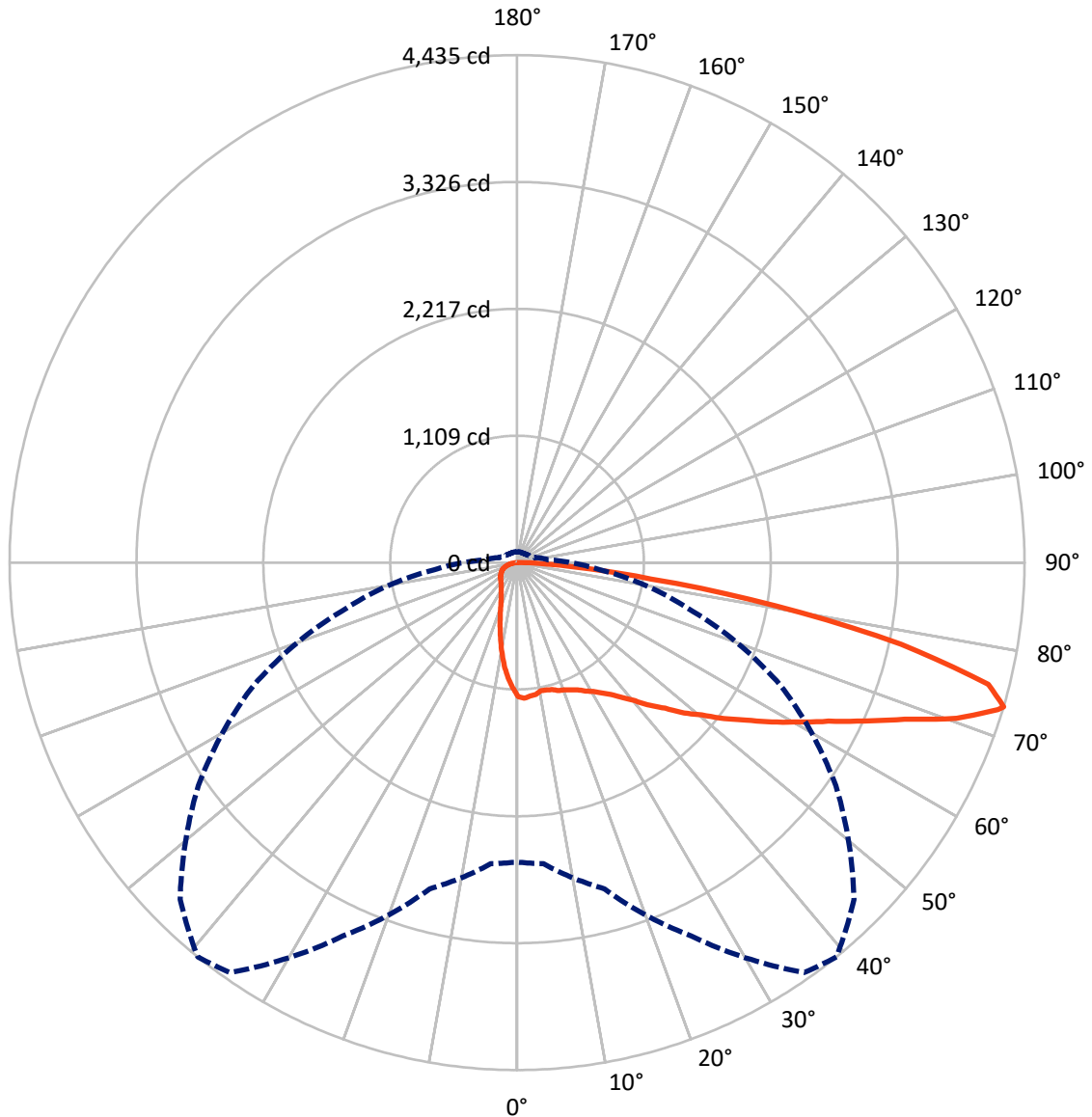
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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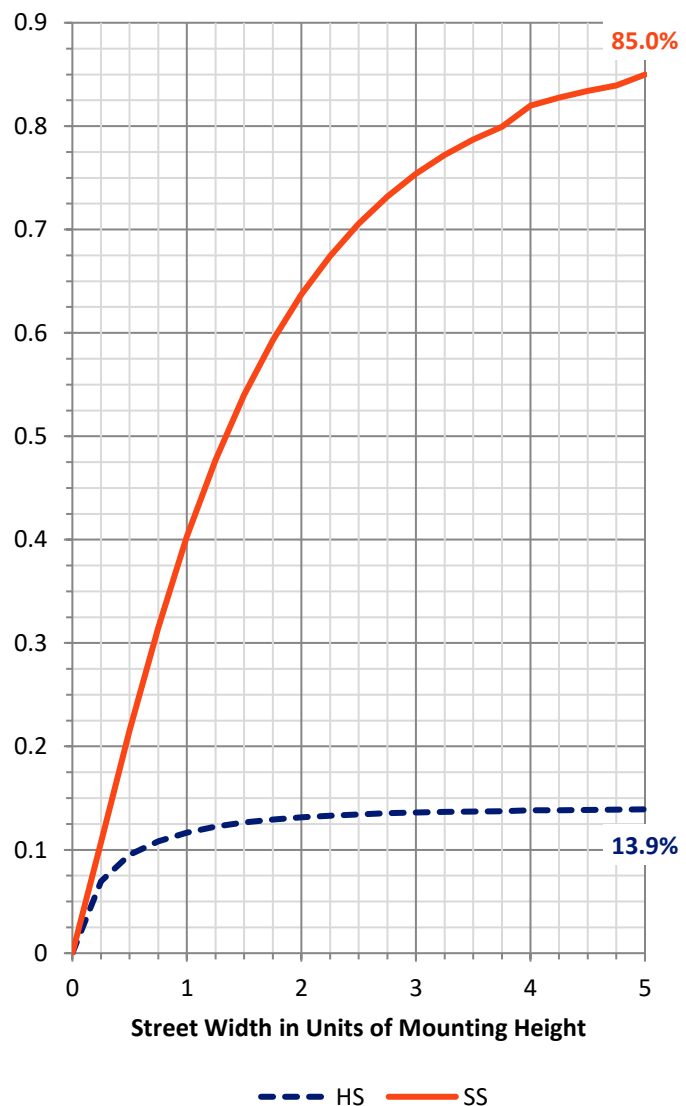
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.7	0.0	924.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5653.3	0.0	5653.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	6577.9	0.0	6577.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.5
10°-20°	258.4	3.9
20°-30°	394.9	6.0
30°-40°	575.7	8.8
40°-50°	870.0	13.2
50°-60°	1259.8	19.2
60°-70°	1600.6	24.3
70°-80°	1297.5	19.7
80°-90°	219.5	3.3
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°	6577.9	100.0
0°-180°	6577.9	100.0

Coefficient of Utilization



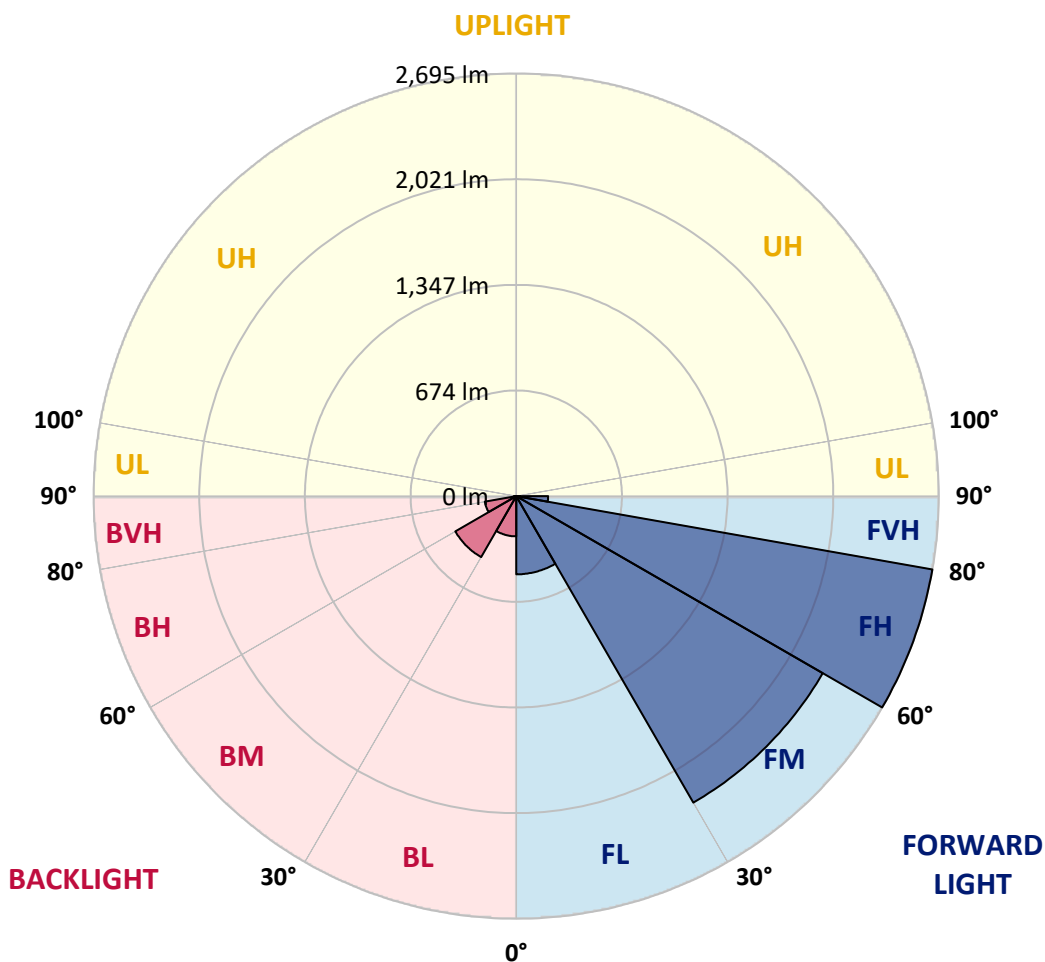
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.5	7.6			
FM (30°-60°)	2256.7	34.3			
FH (60°-80°)	2694.7	41.0			G2/5000
FVH (80°-90°)	203.4	3.1			G2/225
BL (0°-30°)	256.4	3.9	B1/500		
BM (30°-60°)	448.8	6.8	B1/1000		
BH (60°-80°)	203.4	3.1	B1/500		G1/500
BVH (80°-90°)	16.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	1198.9	1186.4	1188.6	1184.2	1188.6	1187.1	1184.9	1173.9	1184.9	1173.9	1170.9
5°	1182.7	1182.7	1190.0	1179.0	1180.5	1173.1	1180.5	1172.4	1165.0	1146.6	1141.5
7.5°	1177.5	1176.8	1177.5	1162.1	1169.4	1165.0	1157.7	1148.8	1134.1	1122.3	1105.4
10°	1142.2	1149.6	1141.5	1145.9	1151.8	1138.5	1137.8	1135.6	1129.0	1113.5	1103.2
12.5°	1123.1	1135.6	1140.0	1136.3	1141.5	1142.9	1138.5	1135.6	1127.5	1117.2	1087.8
15°	1131.2	1116.5	1129.0	1153.3	1148.1	1151.8	1152.5	1149.6	1145.9	1126.8	1107.6
17.5°	1133.4	1124.5	1151.0	1156.2	1162.8	1176.1	1167.2	1166.5	1152.5	1139.3	1111.3
20°	1138.5	1134.9	1156.2	1183.4	1184.2	1186.4	1190.8	1179.7	1172.4	1149.6	1106.9
22.5°	1157.7	1170.2	1190.0	1201.8	1208.4	1209.9	1209.9	1187.8	1179.7	1161.3	1127.5
25°	1215.1	1201.8	1229.8	1243.8	1234.2	1232.0	1226.8	1207.0	1198.1	1182.0	1137.1
27.5°	1257.0	1256.3	1272.5	1291.6	1265.9	1271.0	1252.6	1246.7	1226.8	1218.0	1154.0
30°	1314.4	1330.6	1329.9	1335.8	1301.9	1307.8	1284.3	1273.2	1262.2	1267.3	1204.0
32.5°	1388.0	1382.1	1391.7	1387.3	1353.4	1358.6	1330.6	1313.7	1317.4	1332.8	1272.5
35°	1435.1	1429.2	1432.9	1432.9	1422.6	1416.7	1404.9	1382.9	1400.5	1429.2	1349.0
37.5°	1485.9	1493.3	1514.6	1510.2	1496.9	1496.9	1495.5	1480.0	1502.8	1573.5	1471.2
40°	1530.8	1550.7	1563.9	1572.7	1588.2	1588.2	1600.7	1591.9	1633.1	1746.4	1620.6
42.5°	1577.9	1578.6	1650.8	1657.4	1692.0	1706.7	1716.3	1723.6	1800.9	1927.5	1780.3
45°	1638.2	1641.9	1705.2	1756.0	1809.7	1814.9	1850.9	1875.2	1970.2	2125.5	1954.0
47.5°	1717.7	1713.3	1781.0	1862.0	1929.0	1964.3	2007.7	2034.2	2151.2	2340.4	2143.9
50°	1822.2	1809.0	1848.0	1975.3	2054.1	2093.1	2170.3	2214.5	2351.4	2545.7	2274.1
52.5°	1949.6	1927.5	1958.4	2097.5	2185.8	2264.6	2338.1	2387.5	2530.2	2704.7	2370.5
55°	2084.2	2038.6	2047.4	2227.0	2354.3	2428.7	2529.5	2581.0	2726.7	2847.4	2466.9
57.5°	2217.4	2188.7	2171.1	2351.4	2555.3	2626.6	2719.4	2786.3	2910.0	2974.0	2548.6
60°	2329.3	2322.0	2293.3	2544.2	2767.9	2829.0	2926.2	2967.4	3060.9	3091.0	2550.1
62.5°	2421.3	2396.3	2441.9	2699.5	2984.3	3053.5	3160.2	3163.9	3230.1	3163.9	2475.0
65°	2493.4	2494.9	2567.8	2887.2	3234.5	3336.8	3423.0	3413.4	3370.7	3120.5	2297.7
67.5°	2558.9	2586.9	2693.6	3093.2	3556.2	3652.6	3748.2	3621.7	3409.0	2917.3	1951.0
70°	2610.5	2638.4	2863.6	3344.2	3935.2	4076.5	4097.8	3704.1	3233.1	2471.4	1471.9
72.5°	2604.6	2655.3	2960.0	3544.4	4271.5	4393.7	4221.5	3472.3	2693.6	1722.9	858.9
73°	2617.1	2642.1	2951.9	3600.3	4373.8	4434.9	4164.1	3399.4	2540.5	1545.5	726.4
75°	2375.7	2460.3	2805.5	3509.1	4264.2	4253.1	3834.4	2832.7	1806.0	811.8	351.8
77.5°	1757.5	1811.2	2210.8	2885.7	3500.2	3429.6	2892.3	1810.5	857.4	301.0	189.9
80°	858.9	900.8	1171.6	1666.2	2288.8	2294.7	1795.0	942.0	367.2	170.0	129.5
82.5°	429.1	454.1	563.0	732.3	1126.0	1179.7	910.4	535.8	227.4	96.4	73.6
85°	280.4	298.1	346.6	358.4	477.6	504.1	423.9	418.0	147.9	52.3	59.6
87.5°	186.2	189.1	212.7	181.0	191.3	184.0	204.6	263.5	43.4	22.1	16.2
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°	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	1167.2	1156.9	1145.9	1130.4	1119.4	1102.5	1087.0	1080.4	1078.9	1079.7	1072.3
5°	1137.1	1122.3	1100.3	1068.6	1050.2	1022.2	998.7	986.2	972.9	975.1	969.3
7.5°	1095.1	1078.9	1045.1	1008.3	962.6	922.9	900.8	869.9	852.2	839.0	846.4
10°	1081.9	1053.9	1003.1	952.3	881.7	829.4	778.6	743.3	719.0	695.5	705.8
12.5°	1075.2	1047.3	976.6	901.6	810.3	730.8	659.4	616.0	581.4	560.8	568.9
15°	1069.4	1034.8	951.6	845.6	743.3	638.8	558.6	501.2	468.1	448.2	450.4
17.5°	1077.4	1028.1	914.8	791.2	669.7	557.9	468.8	409.2	375.3	362.8	359.9
20°	1069.4	1020.8	878.7	736.7	596.1	480.6	395.2	345.9	322.4	312.0	309.8
22.5°	1072.3	1003.1	841.2	676.3	527.7	415.8	345.9	308.4	290.0	284.8	286.3
25°	1086.3	992.8	803.7	610.1	460.0	368.0	314.3	285.6	272.3	267.2	268.6
27.5°	1096.6	1001.6	769.8	547.6	402.6	325.3	287.8	268.6	259.8	256.1	255.4
30°	1122.3	1006.8	736.7	491.6	355.5	297.3	269.4	253.9	248.0	245.8	245.1
32.5°	1160.6	1016.4	698.4	440.1	320.9	270.8	254.6	241.4	239.9	237.7	238.5
35°	1223.2	1049.5	655.7	395.9	287.8	253.2	239.2	230.4	230.4	230.4	232.6
37.5°	1313.0	1095.8	617.5	354.0	266.4	237.7	225.9	223.0	221.5	223.7	225.2
40°	1428.5	1151.8	586.6	320.9	248.0	227.4	217.1	215.6	214.9	214.2	215.6
42.5°	1555.1	1223.2	560.1	295.1	234.8	216.4	209.0	207.5	204.6	206.1	208.3
45°	1680.9	1311.5	536.5	274.5	225.9	210.5	200.2	199.4	198.0	197.2	200.9
47.5°	1820.8	1398.3	529.2	262.0	219.3	201.7	194.3	193.6	189.1	188.4	191.3
50°	1929.7	1462.4	537.3	256.1	209.7	195.0	189.9	186.2	182.5	178.8	178.8
52.5°	2004.8	1506.5	543.1	251.7	204.6	186.2	179.6	178.1	174.4	170.7	169.3
55°	2072.5	1533.0	544.6	252.4	199.4	175.9	171.5	170.7	168.5	162.6	161.2
57.5°	2095.3	1522.0	515.2	245.8	196.5	169.3	163.4	164.9	161.9	156.8	156.0
60°	2093.1	1445.4	448.2	237.0	189.9	161.9	154.6	159.0	159.0	153.1	152.3
62.5°	1965.8	1268.8	366.5	220.1	182.5	154.6	146.5	153.1	155.3	151.6	150.9
65°	1701.5	1033.3	306.2	203.1	171.5	146.5	138.4	145.7	149.4	147.9	147.2
67.5°	1407.9	790.4	254.6	181.0	157.5	135.4	128.8	133.9	136.2	136.9	137.6
70°	995.0	526.2	212.7	156.8	138.4	123.6	116.3	117.0	116.3	118.5	118.5
72.5°	540.9	303.2	173.0	133.2	119.2	107.5	102.3	98.6	98.6	97.9	97.9
73°	462.9	272.3	164.9	129.5	114.1	104.5	98.6	95.7	95.7	94.9	94.2
75°	259.8	199.4	141.3	111.1	98.6	91.3	86.8	82.4	81.7	81.7	81.7
77.5°	170.7	155.3	112.6	89.1	79.5	72.9	71.4	67.0	67.0	67.0	66.2
80°	128.1	122.2	86.8	67.7	61.1	55.9	54.5	51.5	50.8	47.8	48.6
82.5°	85.4	96.4	63.3	47.8	41.2	38.3	38.3	37.5	35.3	31.6	31.6
85°	67.7	78.7	45.6	29.4	24.3	20.6	21.3	20.6	19.9	16.2	15.5
87.5°	12.5	31.6	13.2	8.1	5.9	3.7	3.7	2.2	1.5	0.0	0.0
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)