

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: P478034

Luminaire Tested: **IFLD-S-SA2A-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478034
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

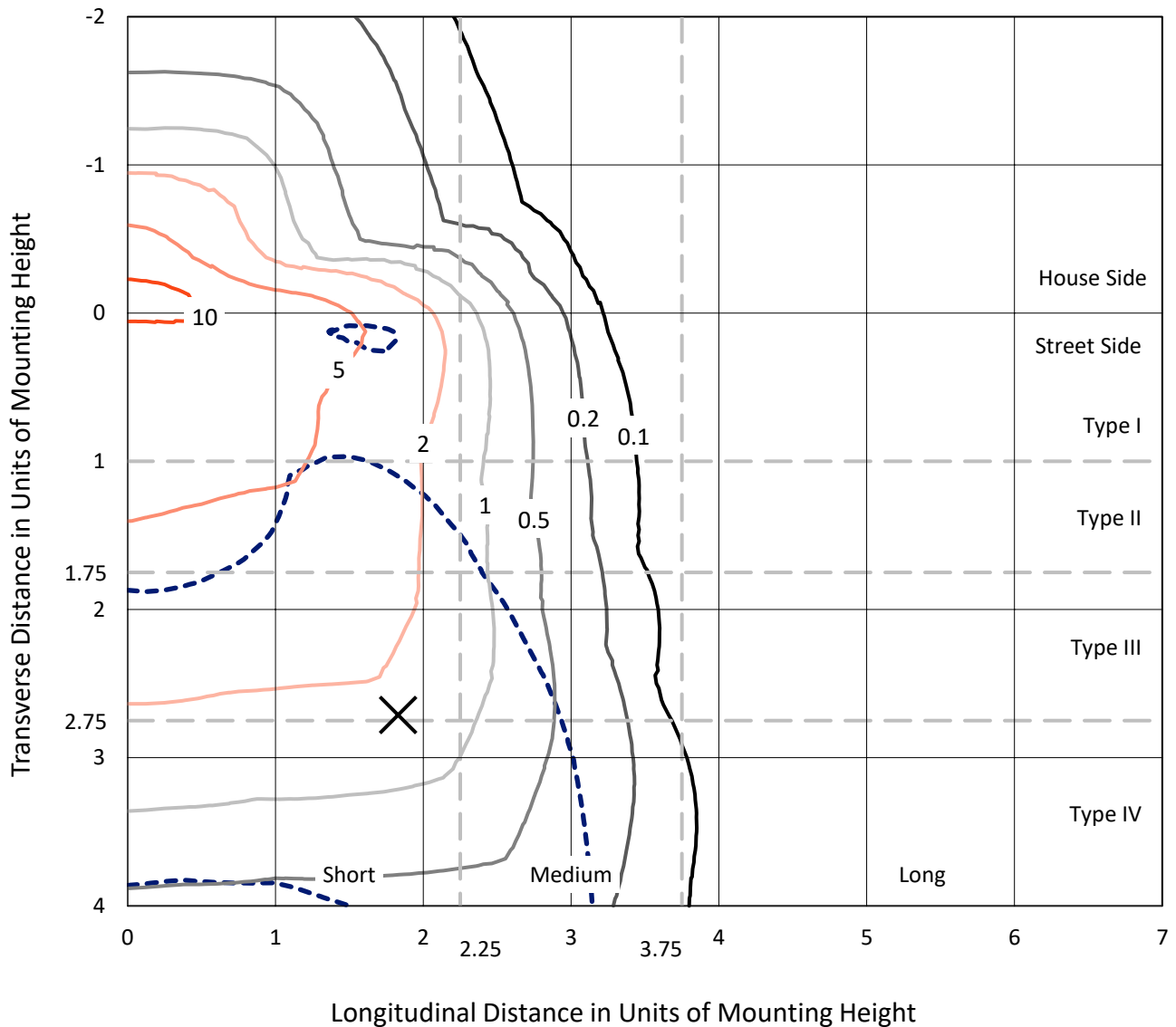
Lumens per Lamp: N/A
Luminaire Lumens: 7910 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

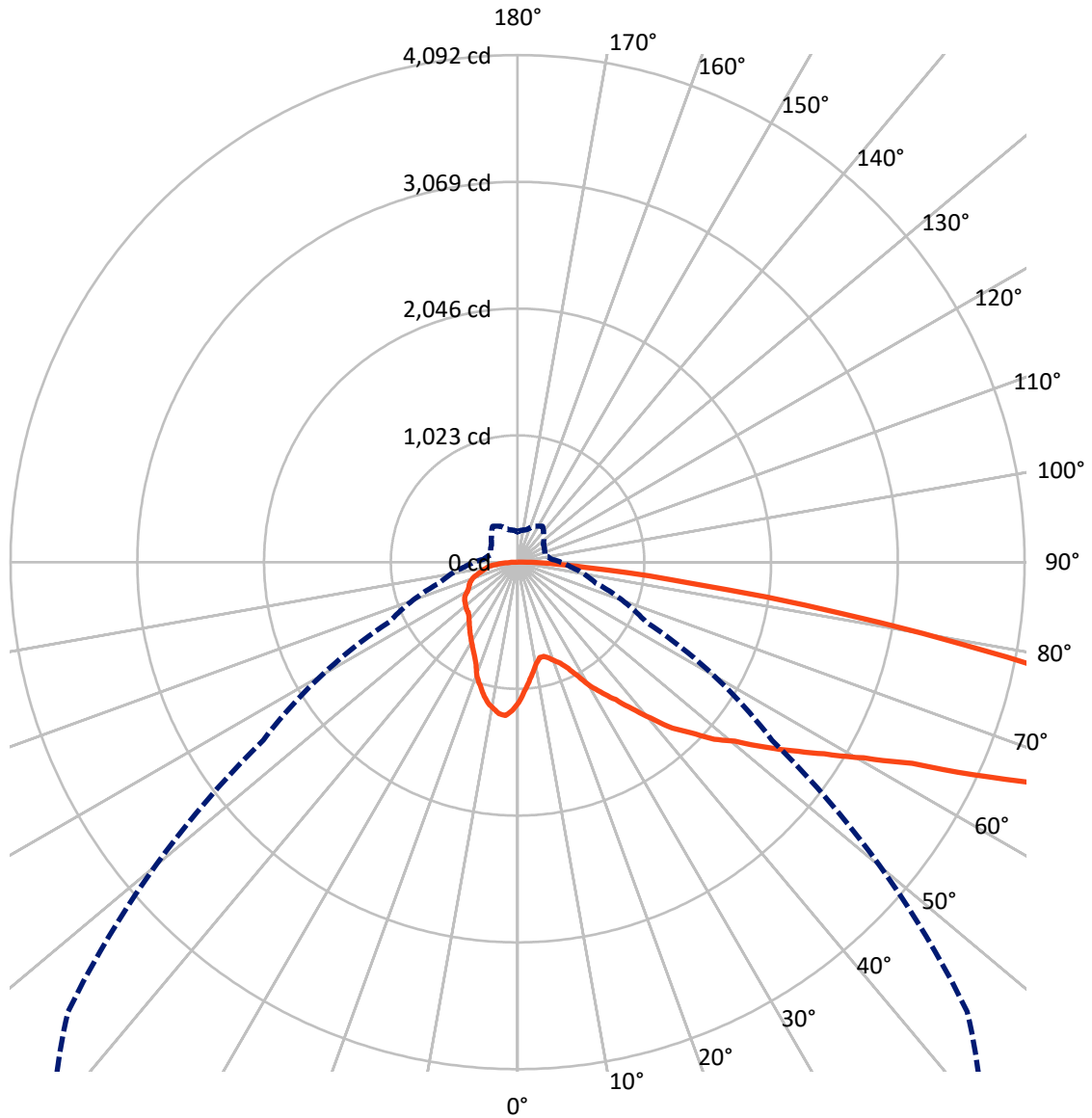
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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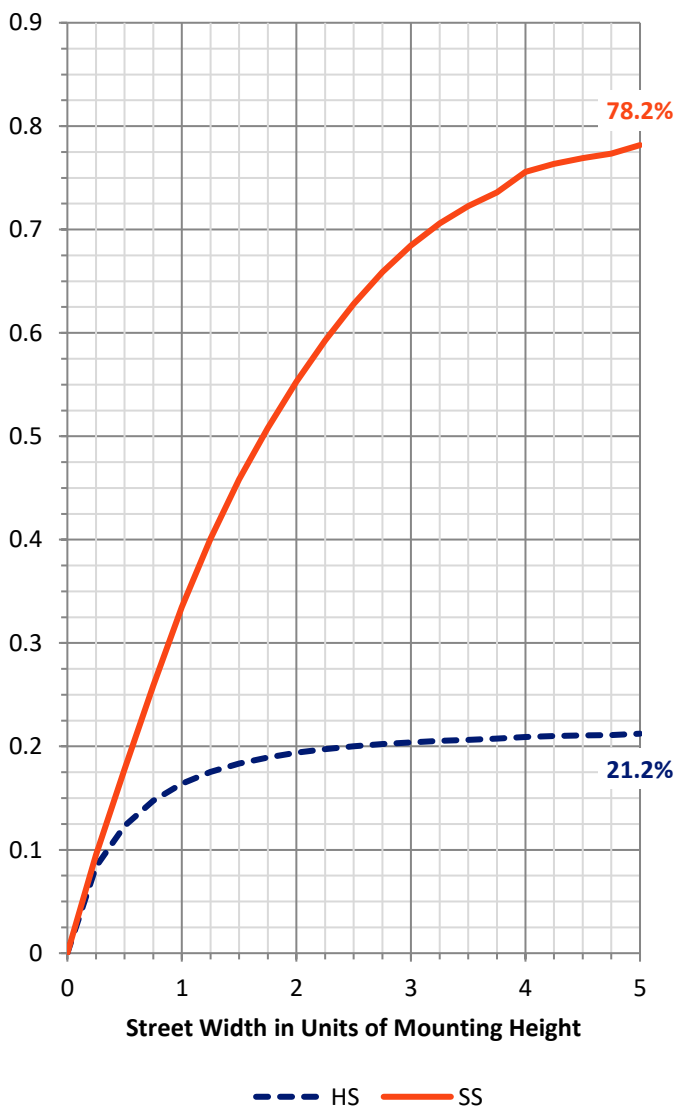
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.7	0.0	1708.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6201.3	0.0	6201.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	7910.0	0.0	7910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	1.3
10°-20°	292.9	3.7
20°-30°	482.1	6.1
30°-40°	721.0	9.1
40°-50°	1068.8	13.5
50°-60°	1540.3	19.5
60°-70°	1965.6	24.8
70°-80°	1529.5	19.3
80°-90°	205.2	2.6
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°	7910.0	100.0
0°-180°	7910.0	100.0

Coefficient of Utilization



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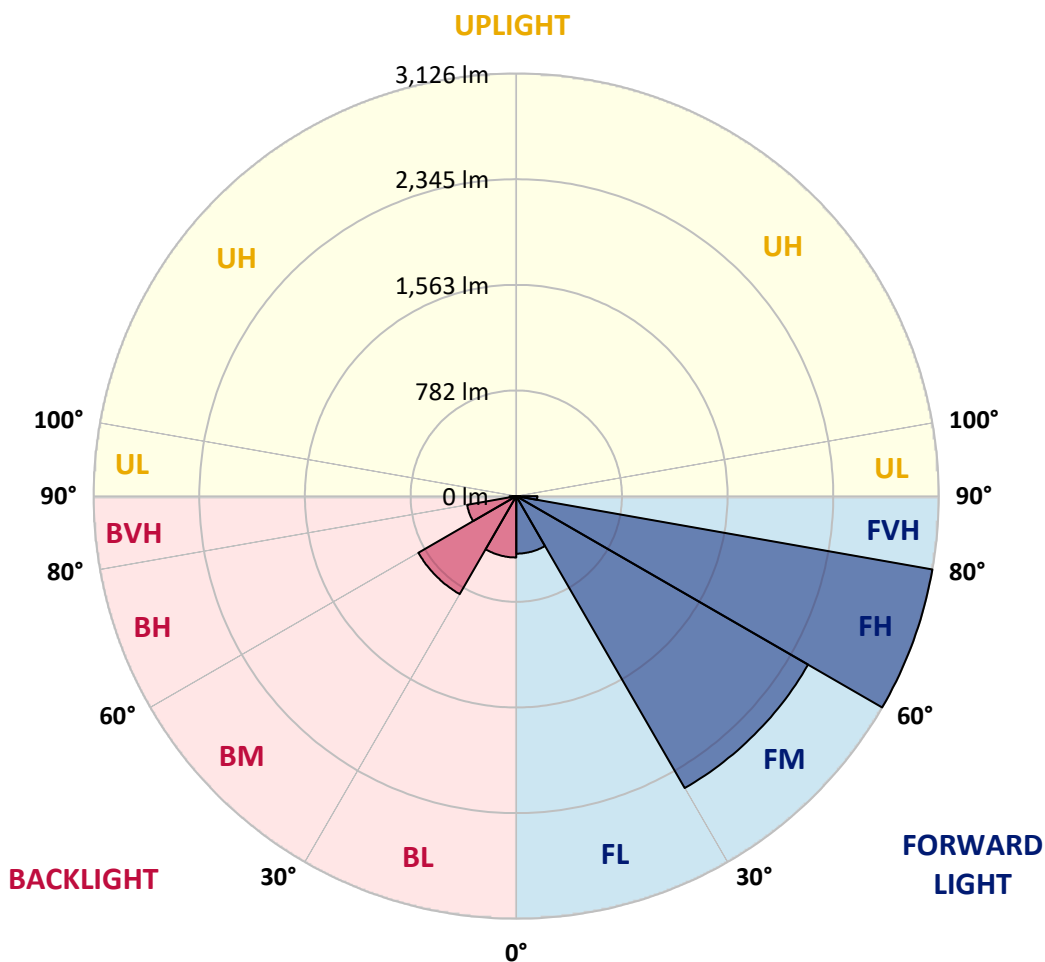
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.7	5.4			
FM (30°-60°)	2493.3	31.5			
FH (60°-80°)	3126.2	39.5			G2/5000
FVH (80°-90°)	156.2	2.0			G2/225
BL (0°-30°)	454.0	5.7	B1/500		
BM (30°-60°)	836.7	10.6	B1/1000		
BH (60°-80°)	368.9	4.7	B1/500		G1/500
BVH (80°-90°)	49.0	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1016.1	1019.4	1030.3	1032.8	1044.5	1037.8	1052.1	1077.2	1091.4	1112.3	1137.4
5°	935.8	921.6	928.3	954.2	967.6	970.9	986.0	1028.6	1055.4	1086.4	1133.2
7.5°	841.3	838.8	852.2	868.9	895.7	898.2	931.6	969.3	1024.5	1093.0	1148.2
10°	776.9	787.8	795.3	812.9	831.3	831.3	873.9	939.2	1001.9	1068.0	1151.6
12.5°	773.6	766.9	768.6	777.8	791.1	807.9	848.0	906.5	986.0	1062.9	1165.8
15°	784.4	787.0	771.9	783.6	788.6	794.5	838.8	904.9	976.0	1080.5	1190.1
17.5°	842.2	827.9	804.5	793.6	811.2	811.2	841.3	893.2	977.6	1089.7	1225.2
20°	887.3	887.3	848.8	837.1	849.7	847.2	868.1	906.5	986.0	1108.1	1264.5
22.5°	963.4	974.3	910.7	886.5	885.6	892.3	910.7	943.3	1009.4	1134.0	1302.1
25°	1073.0	1075.5	1001.9	976.8	950.0	960.9	964.3	996.9	1030.3	1164.1	1344.8
27.5°	1195.1	1193.4	1125.7	1062.9	1045.4	1047.9	1029.5	1051.2	1061.3	1173.3	1405.8
30°	1330.6	1315.5	1264.5	1175.8	1161.6	1145.7	1105.6	1104.8	1125.7	1225.2	1490.3
32.5°	1419.2	1400.0	1364.8	1301.3	1262.0	1263.6	1200.1	1199.3	1180.9	1282.0	1563.9
35°	1506.2	1476.9	1467.7	1402.5	1363.2	1367.4	1316.3	1309.6	1276.2	1368.2	1685.1
37.5°	1610.7	1584.8	1599.0	1549.7	1501.2	1481.1	1457.7	1449.3	1405.8	1489.5	1850.7
40°	1726.1	1717.8	1708.6	1684.3	1655.0	1656.7	1631.6	1623.3	1558.9	1635.8	2009.6
42.5°	1881.7	1849.9	1802.2	1818.1	1833.2	1849.1	1840.7	1819.0	1752.0	1784.7	2186.9
45°	2026.4	1984.5	1896.7	1901.7	1963.6	1976.2	2077.4	2074.9	1940.2	1973.7	2388.5
47.5°	2124.2	2105.0	2052.3	2046.4	2135.1	2134.2	2316.6	2316.6	2138.4	2161.8	2605.1
50°	2269.7	2219.5	2197.0	2226.2	2271.4	2302.3	2560.8	2576.6	2333.3	2358.4	2888.6
52.5°	2440.3	2377.6	2320.7	2396.0	2476.3	2496.4	2802.4	2795.8	2483.0	2586.7	3220.6
55°	2581.7	2549.9	2510.6	2554.1	2685.4	2710.4	3045.0	2983.1	2632.7	2775.7	3380.3
57.5°	2746.4	2765.6	2774.0	2763.1	2919.5	2958.8	3321.8	3144.5	2761.5	2902.8	3474.0
60°	2994.8	3006.5	3017.4	3043.3	3208.9	3264.1	3540.9	3346.9	2842.6	2976.4	3481.5
62.5°	3372.8	3327.6	3351.9	3441.4	3574.3	3637.1	3863.7	3489.0	2904.5	3020.7	3235.6
65°	3805.2	3744.1	3719.0	3834.4	4179.0	4128.8	4266.8	3595.3	2815.0	2855.1	2743.9
67.5°	4243.4	4250.1	4185.7	4417.3	4839.7	4839.7	4641.5	3646.3	2572.5	2314.0	1924.3
70°	4591.3	4612.2	4647.3	5096.4	5765.5	5866.6	5105.6	3437.2	2078.2	1540.5	1052.1
72.5°	4586.3	4523.5	4703.4	5530.5	6606.8	6522.3	5202.6	2718.0	1297.1	754.3	482.5
73°	4483.4	4430.7	4627.2	5526.3	6641.1	6561.6	5131.5	2505.6	1144.1	654.0	429.0
75°	3661.3	3566.0	3900.5	5005.3	6144.3	6205.3	4359.6	1634.1	627.2	403.1	301.9
77.5°	1669.3	1711.1	2146.8	3357.7	4735.1	4807.1	2866.0	706.7	343.7	282.7	222.5
80°	536.1	562.8	835.5	1669.3	2968.0	3097.7	1324.7	321.1	245.0	216.6	166.4
82.5°	204.9	204.1	350.4	694.1	1406.7	1489.5	484.2	195.7	182.3	159.7	117.9
85°	71.9	75.3	132.1	274.3	553.6	579.6	168.1	108.7	126.3	107.0	67.7
87.5°	25.1	25.9	46.8	99.5	190.7	201.5	46.8	43.5	62.7	61.9	34.3
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°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1145.7	1153.3	1155.8	1185.9	1185.9	1185.9	1197.6	1197.6	1194.2	1185.9	1205.9
5°	1150.7	1164.1	1190.1	1216.0	1222.7	1228.5	1244.4	1231.0	1236.1	1227.7	1235.2
7.5°	1165.0	1183.4	1231.9	1247.8	1236.9	1249.4	1232.7	1223.5	1214.3	1217.7	1205.9
10°	1189.2	1212.6	1235.2	1264.5	1243.6	1231.0	1196.7	1188.4	1159.1	1149.1	1158.3
12.5°	1219.3	1247.8	1286.2	1275.4	1235.2	1199.3	1162.5	1127.3	1109.8	1084.7	1091.4
15°	1249.4	1282.0	1287.9	1269.5	1219.3	1174.2	1107.3	1057.9	1040.4	1017.8	1029.5
17.5°	1282.0	1313.0	1303.0	1255.3	1187.5	1119.0	1042.9	994.4	957.6	943.3	943.3
20°	1330.6	1345.6	1329.7	1231.9	1149.1	1058.8	985.2	930.0	893.2	887.3	878.1
22.5°	1368.2	1392.4	1321.4	1197.6	1093.0	980.1	895.7	874.8	863.9	854.7	843.0
25°	1416.7	1415.9	1306.3	1165.8	996.9	886.5	835.5	833.8	828.8	825.4	841.3
27.5°	1462.7	1443.5	1288.7	1087.2	897.3	815.4	787.8	806.2	813.7	808.7	815.4
30°	1535.4	1503.7	1263.6	1003.6	809.5	743.5	748.5	773.6	786.1	793.6	783.6
32.5°	1612.4	1563.9	1211.8	916.6	731.8	698.3	710.0	735.9	751.0	759.4	768.6
35°	1723.6	1610.7	1159.1	802.8	675.7	670.7	677.4	691.6	713.4	719.2	721.7
37.5°	1860.8	1681.8	1088.0	711.7	632.2	638.1	644.8	649.8	650.6	661.5	657.3
40°	1997.9	1742.0	984.3	624.7	587.1	618.9	615.5	606.3	598.8	588.8	586.2
42.5°	2118.3	1794.7	868.9	551.1	546.9	598.8	587.9	564.5	546.9	539.4	526.9
45°	2253.8	1869.1	752.7	505.1	516.0	574.5	571.2	535.2	512.7	485.9	482.5
47.5°	2429.5	1946.9	641.4	457.5	486.7	565.3	567.0	521.0	488.4	452.4	447.4
50°	2654.4	2059.0	557.0	437.4	469.2	552.0	554.5	501.8	459.1	422.3	419.0
52.5°	2870.2	2173.5	486.7	406.4	457.5	536.1	541.9	484.2	434.9	388.9	391.4
55°	2978.9	2131.7	426.5	383.9	430.7	510.1	531.9	471.7	398.1	366.3	365.5
57.5°	3003.2	2028.9	378.8	360.4	408.1	482.5	515.2	434.0	381.4	354.6	351.2
60°	2923.7	1849.1	341.2	335.4	379.7	454.1	476.7	414.0	364.6	342.9	337.9
62.5°	2728.0	1662.6	315.3	323.6	355.4	423.2	452.4	399.8	348.7	333.7	322.8
65°	2237.1	1367.4	294.4	301.1	330.3	393.1	437.4	383.9	334.5	320.3	319.5
67.5°	1549.7	942.5	277.7	290.2	310.3	371.3	422.3	366.3	316.1	311.1	304.4
70°	793.6	502.6	255.9	265.9	288.5	343.7	395.6	347.9	296.9	296.1	287.7
72.5°	402.3	294.4	230.8	245.9	261.8	307.8	362.1	323.6	272.6	263.4	250.1
73°	347.9	272.6	226.6	240.0	255.1	297.7	352.1	317.8	269.3	255.9	243.4
75°	253.4	214.9	203.2	216.6	228.3	268.5	318.6	291.0	247.5	233.3	221.6
77.5°	189.8	165.6	168.9	184.0	194.0	231.7	283.5	263.4	224.1	204.9	199.9
80°	139.7	126.3	139.7	153.9	161.4	204.1	258.4	228.3	189.0	167.3	163.1
82.5°	99.5	92.0	107.9	117.1	120.4	168.9	232.5	182.3	143.0	114.6	105.4
85°	56.9	56.0	72.8	71.9	74.4	98.7	153.0	121.3	92.0	70.2	68.6
87.5°	25.1	27.6	36.8	29.3	30.9	46.8	65.2	45.2	37.6	20.9	15.9
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)