

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: P478073

Luminaire Tested: **IFLD-S-SA2A-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478073
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

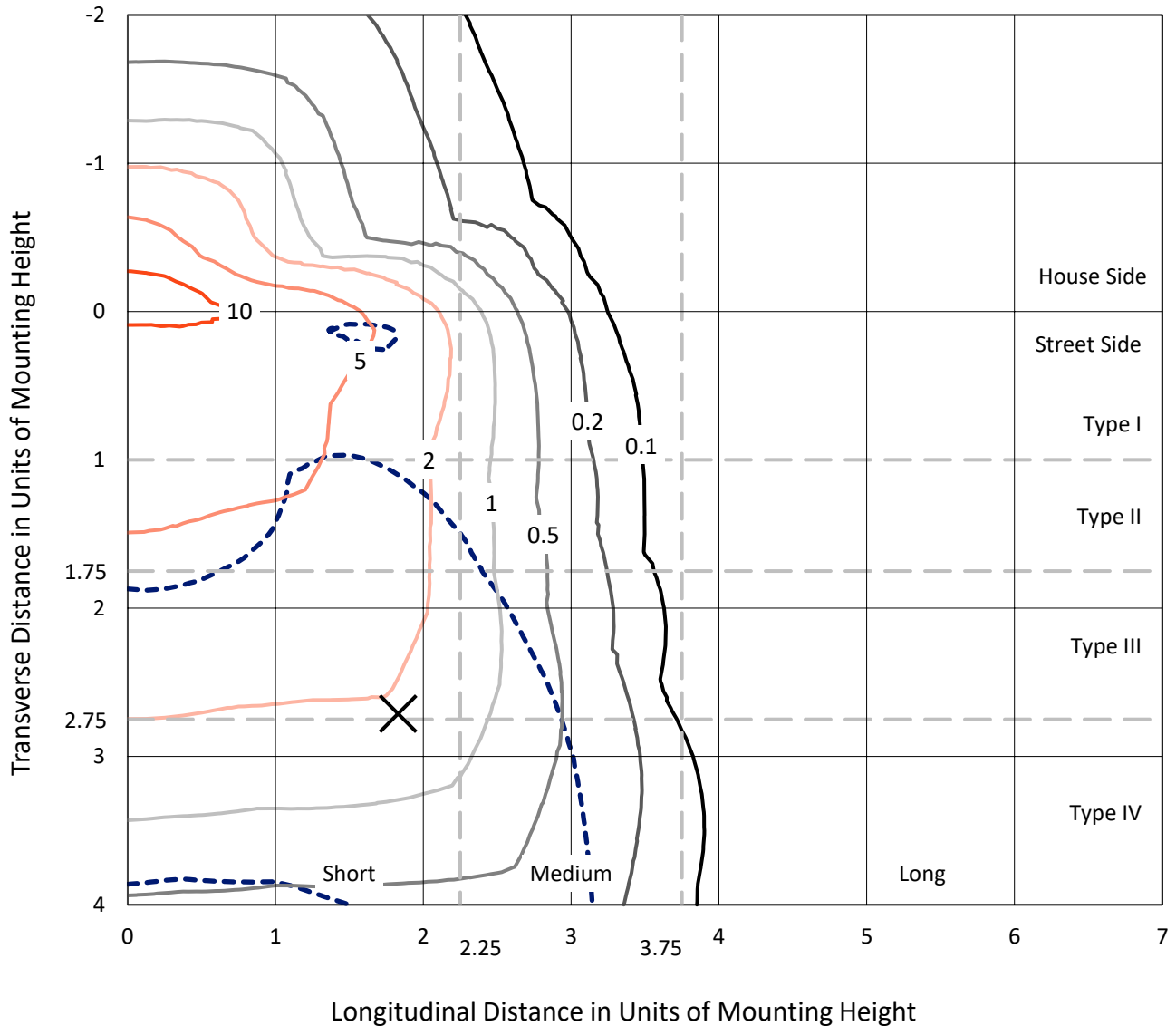
Lumens per Lamp: N/A
Luminaire Lumens: 8612.7 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

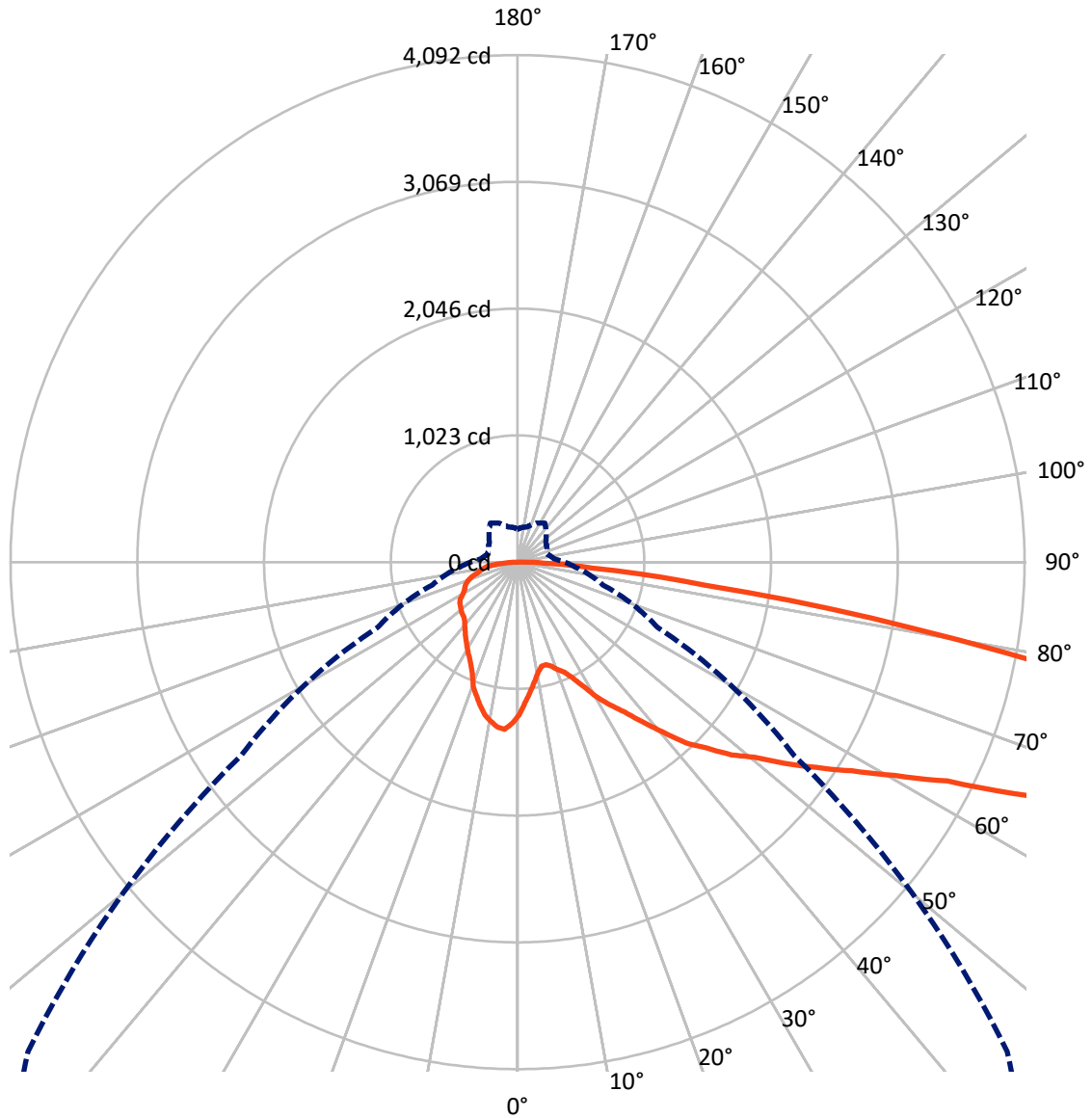
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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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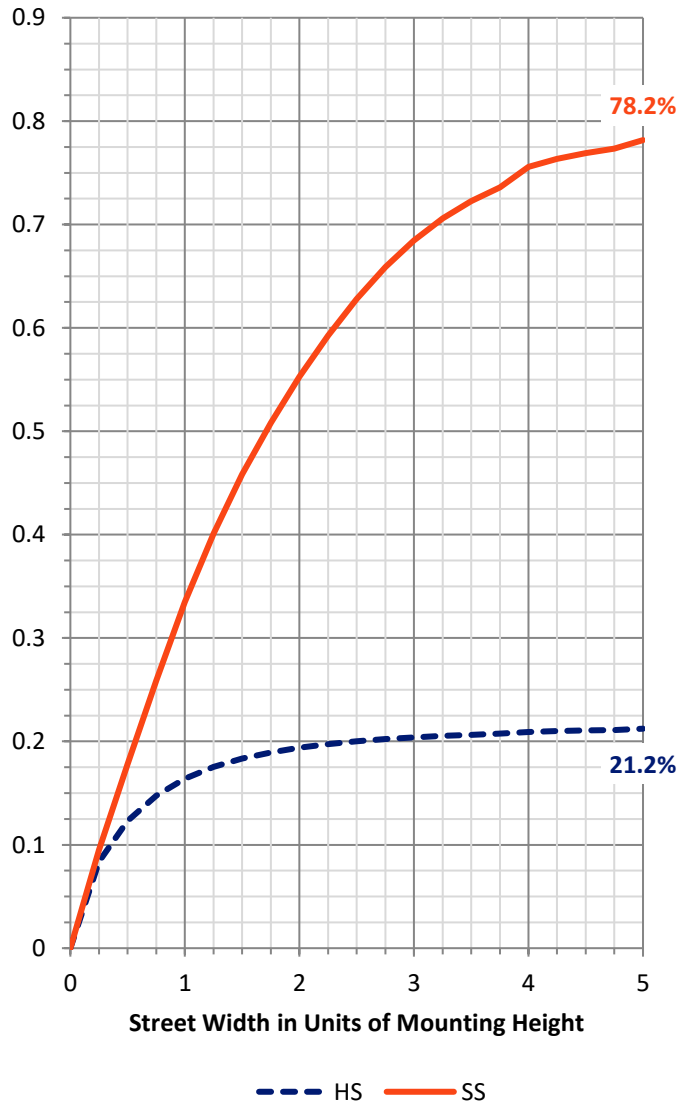
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.5	0.0	1860.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	6752.3	0.0	6752.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	8612.7	0.0	8612.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	1.3
10°-20°	318.9	3.7
20°-30°	524.9	6.1
30°-40°	785.0	9.1
40°-50°	1163.8	13.5
50°-60°	1677.1	19.5
60°-70°	2140.2	24.8
70°-80°	1665.4	19.3
80°-90°	223.4	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°	8612.7	100.0
0°-180°	8612.7	100.0

Coefficient of Utilization



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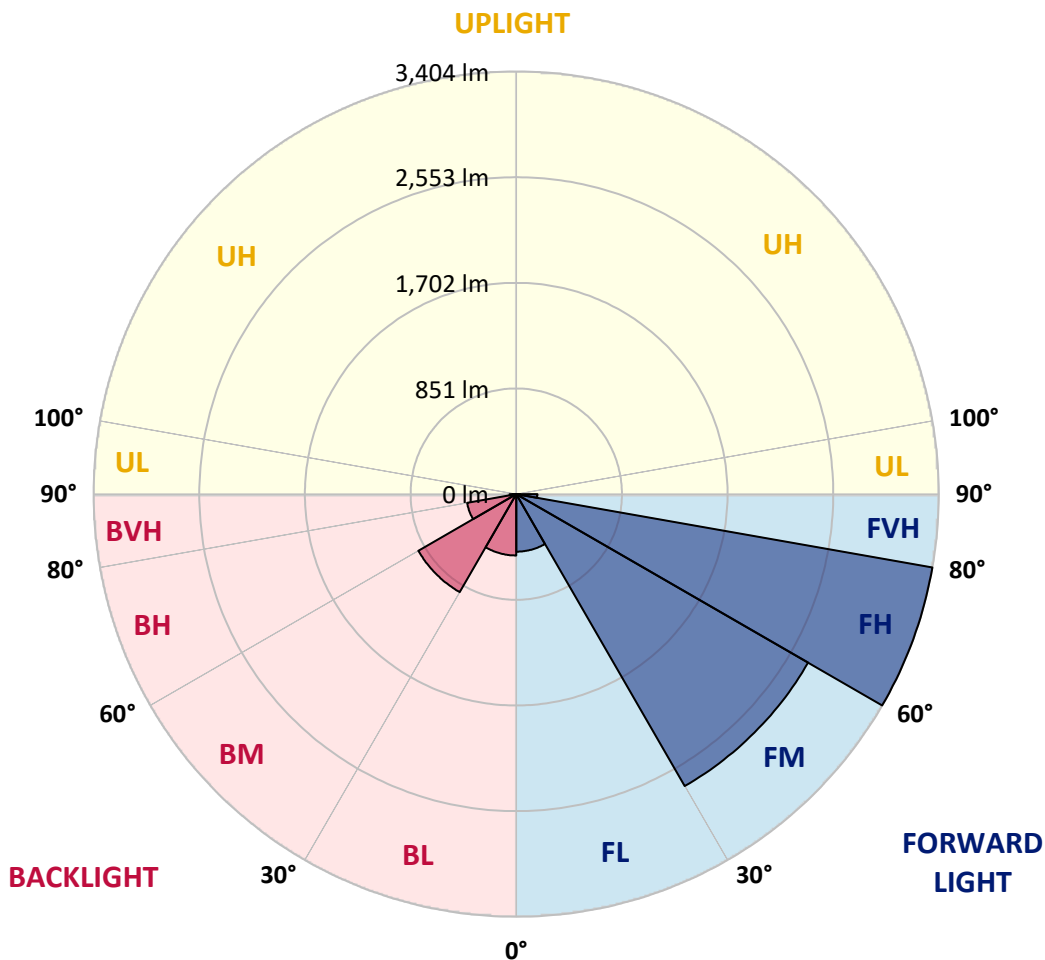
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.5	5.4			
FM (30°-60°)	2714.8	31.5			
FH (60°-80°)	3403.9	39.5			G2/5000
FVH (80°-90°)	170.1	2.0			G2/225
BL (0°-30°)	494.3	5.7	B1/500		
BM (30°-60°)	911.1	10.6	B1/1000		
BH (60°-80°)	401.7	4.7	B1/500		G1/500
BVH (80°-90°)	53.4	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°	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1106.4	1110.0	1121.9	1124.6	1137.3	1130.1	1145.5	1172.9	1188.3	1211.1	1238.4
5°	1019.0	1003.5	1010.8	1039.0	1053.6	1057.2	1073.6	1120.0	1149.2	1182.9	1233.9
7.5°	916.1	913.3	927.9	946.1	975.3	978.0	1014.4	1055.4	1115.5	1190.2	1250.3
10°	845.9	857.8	866.0	885.1	905.1	905.1	951.6	1022.6	1090.9	1162.8	1253.9
12.5°	842.3	835.0	836.8	846.9	861.4	879.6	923.3	987.1	1073.6	1157.4	1269.4
15°	854.1	856.9	840.5	853.2	858.7	865.1	913.3	985.3	1062.7	1176.5	1295.8
17.5°	917.0	901.5	876.0	864.2	883.3	883.3	916.1	972.5	1064.5	1186.5	1334.0
20°	966.1	966.1	924.3	911.5	925.2	922.4	945.2	987.1	1073.6	1206.5	1376.8
22.5°	1049.0	1060.8	991.6	965.2	964.3	971.6	991.6	1027.2	1099.1	1234.8	1417.8
25°	1168.3	1171.0	1090.9	1063.6	1034.4	1046.3	1049.9	1085.4	1121.9	1267.6	1464.2
27.5°	1301.2	1299.4	1225.7	1157.4	1138.2	1141.0	1120.9	1144.6	1155.6	1277.6	1530.7
30°	1448.8	1432.4	1376.8	1280.3	1264.8	1247.5	1203.8	1202.9	1225.7	1334.0	1622.7
32.5°	1545.3	1524.3	1486.1	1416.9	1374.1	1375.9	1306.7	1305.8	1285.8	1395.9	1702.8
35°	1640.0	1608.1	1598.1	1527.1	1484.3	1488.8	1433.3	1426.0	1389.6	1489.7	1834.9
37.5°	1753.8	1725.6	1741.1	1687.3	1634.5	1612.7	1587.2	1578.1	1530.7	1621.8	2015.2
40°	1879.5	1870.4	1860.4	1833.9	1802.1	1803.9	1776.6	1767.5	1697.4	1781.1	2188.2
42.5°	2048.8	2014.2	1962.3	1979.6	1996.0	2013.3	2004.2	1980.6	1907.7	1943.2	2381.2
45°	2206.4	2160.9	2065.2	2070.7	2138.1	2151.7	2261.9	2259.2	2112.6	2149.0	2600.7
47.5°	2312.9	2292.0	2234.6	2228.2	2324.8	2323.9	2522.4	2522.4	2328.4	2353.9	2836.5
50°	2471.4	2416.7	2392.1	2424.0	2473.2	2506.9	2788.3	2805.6	2540.6	2567.9	3145.2
52.5°	2657.1	2588.8	2526.9	2608.9	2696.3	2718.1	3051.4	3044.1	2703.6	2816.5	3506.7
55°	2811.0	2776.4	2733.6	2781.0	2923.9	2951.3	3315.5	3248.1	2866.6	3022.3	3680.6
57.5°	2990.4	3011.4	3020.5	3008.6	3178.9	3221.7	3616.9	3423.9	3006.8	3160.7	3782.6
60°	3260.9	3273.6	3285.4	3313.7	3494.0	3554.1	3855.5	3644.2	3095.1	3240.8	3790.8
62.5°	3672.4	3623.3	3649.7	3747.1	3891.9	3960.2	4207.0	3799.0	3162.5	3289.1	3523.1
65°	4143.2	4076.8	4049.4	4175.1	4550.3	4495.6	4645.9	3914.7	3065.1	3108.8	2987.7
67.5°	4620.4	4627.7	4557.6	4809.8	5269.6	5269.6	5053.8	3970.2	2801.0	2519.6	2095.3
70°	4999.2	5022.0	5060.2	5549.2	6277.7	6387.9	5559.2	3742.6	2262.8	1677.3	1145.5
72.5°	4993.7	4925.4	5121.2	6021.8	7193.7	7101.8	5664.8	2959.4	1412.3	821.4	525.4
73°	4881.7	4824.4	5038.3	6017.2	7231.1	7144.6	5587.4	2728.2	1245.7	712.1	467.1
75°	3986.6	3882.8	4247.0	5449.9	6690.2	6756.7	4747.0	1779.3	682.9	438.9	328.7
77.5°	1817.6	1863.1	2337.5	3656.1	5155.8	5234.1	3120.6	769.5	374.3	307.8	242.2
80°	583.7	612.8	909.7	1817.6	3231.7	3372.9	1442.4	349.7	266.8	235.8	181.2
82.5°	223.1	222.2	381.5	755.8	1531.6	1621.8	527.2	213.1	198.5	173.9	128.4
85°	78.3	82.0	143.9	298.7	602.8	631.0	183.0	118.4	137.5	116.6	73.8
87.5°	27.3	28.2	51.0	108.4	207.6	219.5	51.0	47.4	68.3	67.4	37.3
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°	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1247.5	1255.7	1258.4	1291.2	1291.2	1291.2	1304.0	1304.0	1300.3	1291.2	1313.1
5°	1253.0	1267.6	1295.8	1324.0	1331.3	1337.7	1355.0	1340.4	1345.9	1336.8	1345.0
7.5°	1268.5	1288.5	1341.3	1358.6	1346.8	1360.4	1342.2	1332.2	1322.2	1325.8	1313.1
10°	1294.9	1320.4	1345.0	1376.8	1354.1	1340.4	1303.1	1294.0	1262.1	1251.2	1261.2
12.5°	1327.7	1358.6	1400.5	1388.7	1345.0	1305.8	1265.7	1227.5	1208.4	1181.0	1188.3
15°	1360.4	1395.9	1402.3	1382.3	1327.7	1278.5	1205.6	1151.9	1132.8	1108.2	1120.9
17.5°	1395.9	1429.6	1418.7	1366.8	1293.1	1218.4	1135.5	1082.7	1042.6	1027.2	1027.2
20°	1448.8	1465.2	1447.9	1341.3	1251.2	1152.8	1072.7	1012.6	972.5	966.1	956.1
22.5°	1489.7	1516.1	1438.7	1304.0	1190.2	1067.2	975.3	952.5	940.6	930.6	917.9
25°	1542.6	1541.6	1422.4	1269.4	1085.4	965.2	909.7	907.9	902.4	898.8	916.1
27.5°	1592.6	1571.7	1403.2	1183.8	977.1	887.8	857.8	877.8	886.0	880.6	887.8
30°	1671.9	1637.3	1375.9	1092.7	881.5	809.5	815.0	842.3	856.0	864.2	853.2
32.5°	1755.6	1702.8	1319.5	998.0	796.8	760.4	773.1	801.3	817.7	826.8	836.8
35°	1876.7	1753.8	1262.1	874.2	735.8	730.3	737.6	753.1	776.7	783.1	785.8
37.5°	2026.1	1831.2	1184.7	774.9	688.4	694.8	702.1	707.5	708.4	720.3	715.7
40°	2175.4	1896.8	1071.8	680.2	639.2	673.8	670.2	660.2	652.0	641.1	638.3
42.5°	2306.5	1954.1	946.1	600.1	595.5	652.0	640.2	614.7	595.5	587.3	573.7
45°	2454.1	2035.2	819.5	550.0	561.8	625.6	621.9	582.8	558.2	529.1	525.4
47.5°	2645.3	2119.9	698.4	498.1	530.0	615.6	617.4	567.3	531.8	492.6	487.2
50°	2890.2	2241.9	606.5	476.2	510.8	601.0	603.7	546.4	499.9	459.9	456.2
52.5°	3125.2	2366.6	530.0	442.6	498.1	583.7	590.1	527.2	473.5	423.4	426.2
55°	3243.6	2321.1	464.4	418.0	469.0	555.5	579.1	513.6	433.4	398.8	397.9
57.5°	3270.0	2209.1	412.5	392.5	444.4	525.4	560.9	472.6	415.2	386.1	382.5
60°	3183.5	2013.3	371.5	365.2	413.4	494.5	519.0	450.7	397.0	373.3	367.9
62.5°	2970.4	1810.3	343.3	352.4	387.0	460.8	492.6	435.3	379.7	363.3	351.5
65°	2435.9	1488.8	320.5	327.8	359.7	428.0	476.2	418.0	364.2	348.8	347.8
67.5°	1687.3	1026.2	302.3	316.0	337.8	404.3	459.9	398.8	344.2	338.7	331.5
70°	864.2	547.3	278.6	289.6	314.2	374.3	430.7	378.8	323.3	322.4	313.2
72.5°	438.0	320.5	251.3	267.7	285.0	335.1	394.3	352.4	296.9	286.8	272.3
73°	378.8	296.9	246.8	261.3	277.7	324.2	383.4	346.0	293.2	278.6	265.0
75°	275.9	234.0	221.3	235.8	248.6	292.3	346.9	316.9	269.5	254.1	241.3
77.5°	206.7	180.3	183.9	200.3	211.3	252.2	308.7	286.8	244.0	223.1	217.6
80°	152.1	137.5	152.1	167.6	175.7	222.2	281.4	248.6	205.8	182.1	177.6
82.5°	108.4	100.2	117.5	127.5	131.1	183.9	253.1	198.5	155.7	124.8	114.7
85°	61.9	61.0	79.2	78.3	81.0	107.5	166.6	132.0	100.2	76.5	74.7
87.5°	27.3	30.0	40.1	31.9	33.7	51.0	71.0	49.2	41.0	22.8	17.3
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)