

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: P478663

Luminaire Tested: **IFLD-S-SA3A-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478663  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

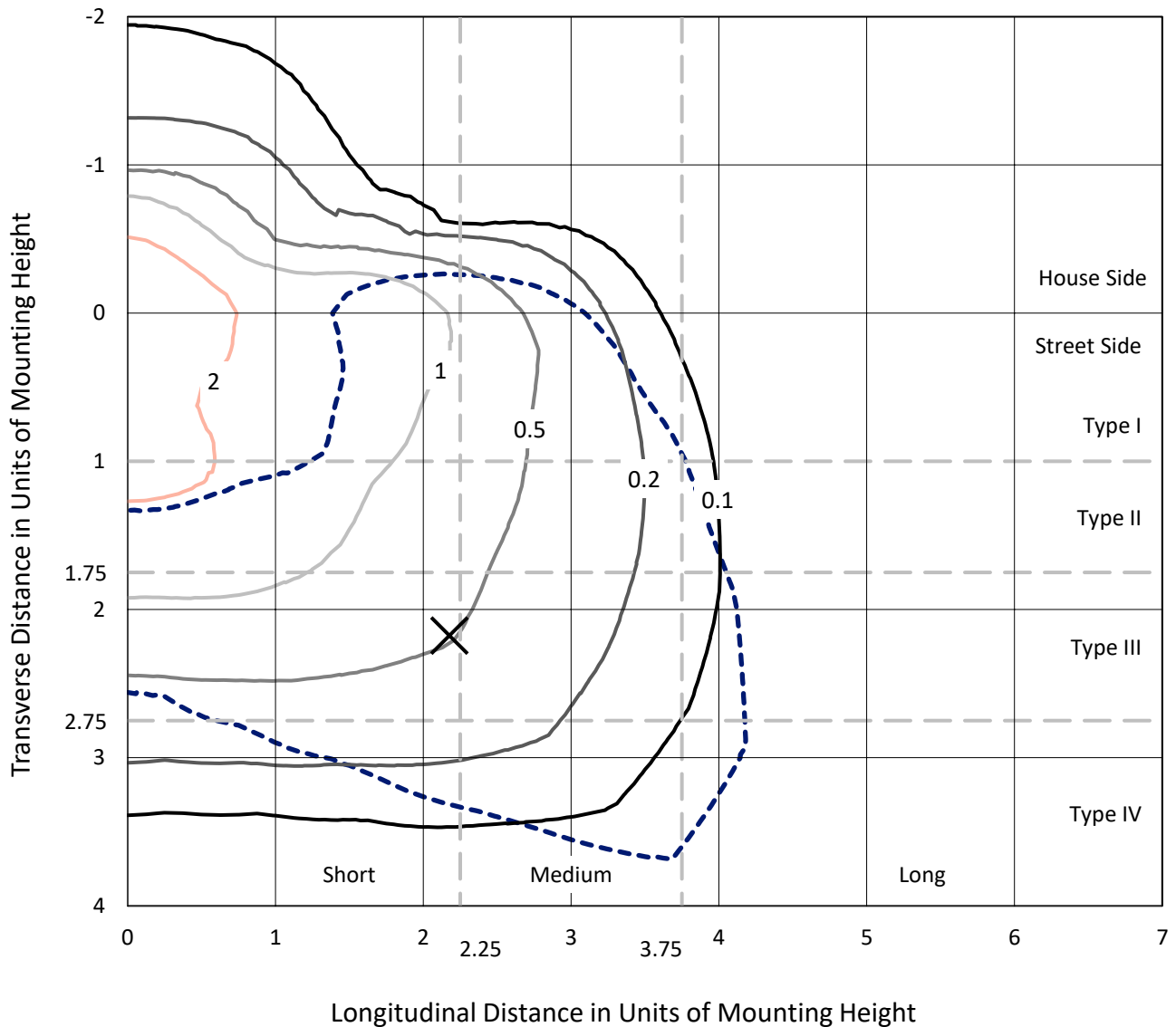
Lumens per Lamp: N/A  
Luminaire Lumens: 10222.9 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
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

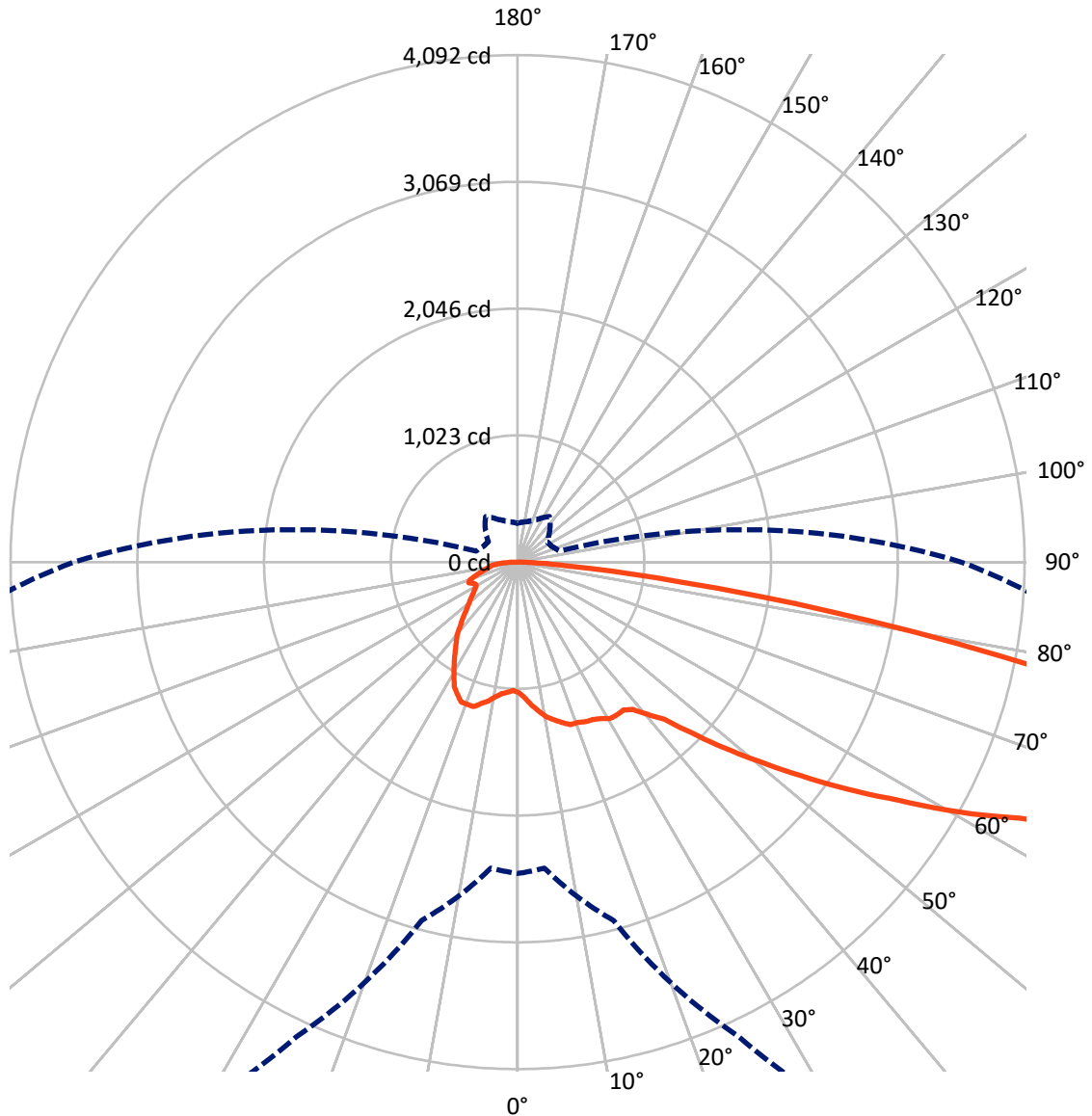
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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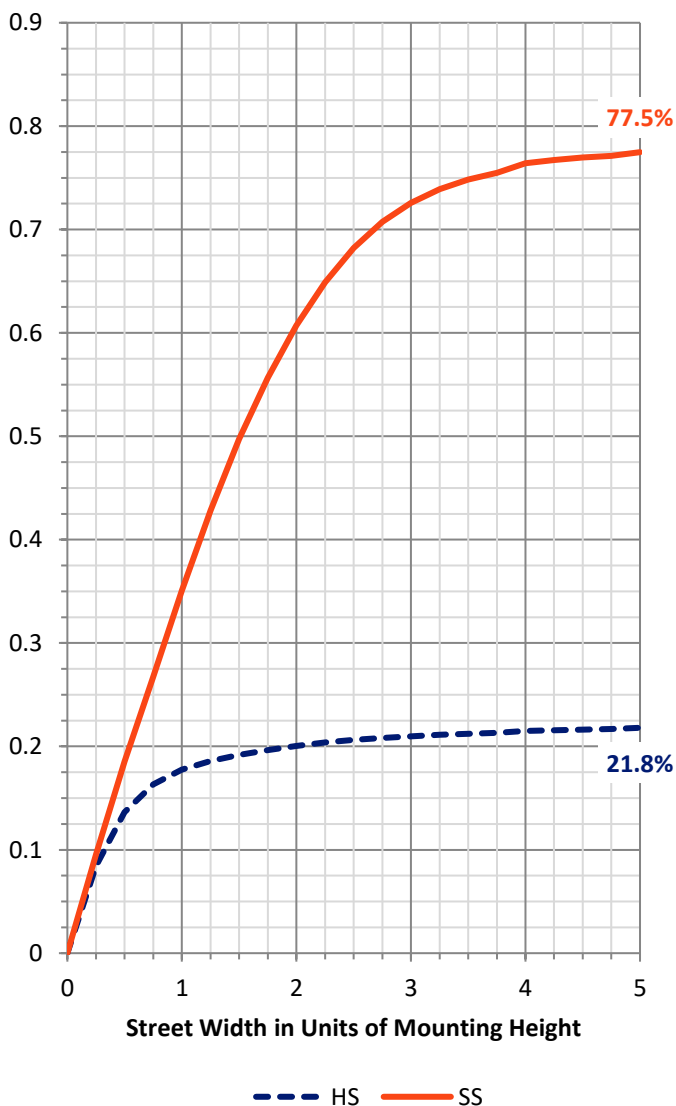
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2275.7	0.0	2275.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	7947.2	0.0	7947.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	10222.9	0.0	10222.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	1.1
10°-20°	358.4	3.5
20°-30°	605.3	5.9
30°-40°	837.6	8.2
40°-50°	1198.1	11.7
50°-60°	1932.4	18.9
60°-70°	2850.0	27.9
70°-80°	2069.6	20.2
80°-90°	263.8	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°	10222.9	100.0
0°-180°	10222.9	100.0



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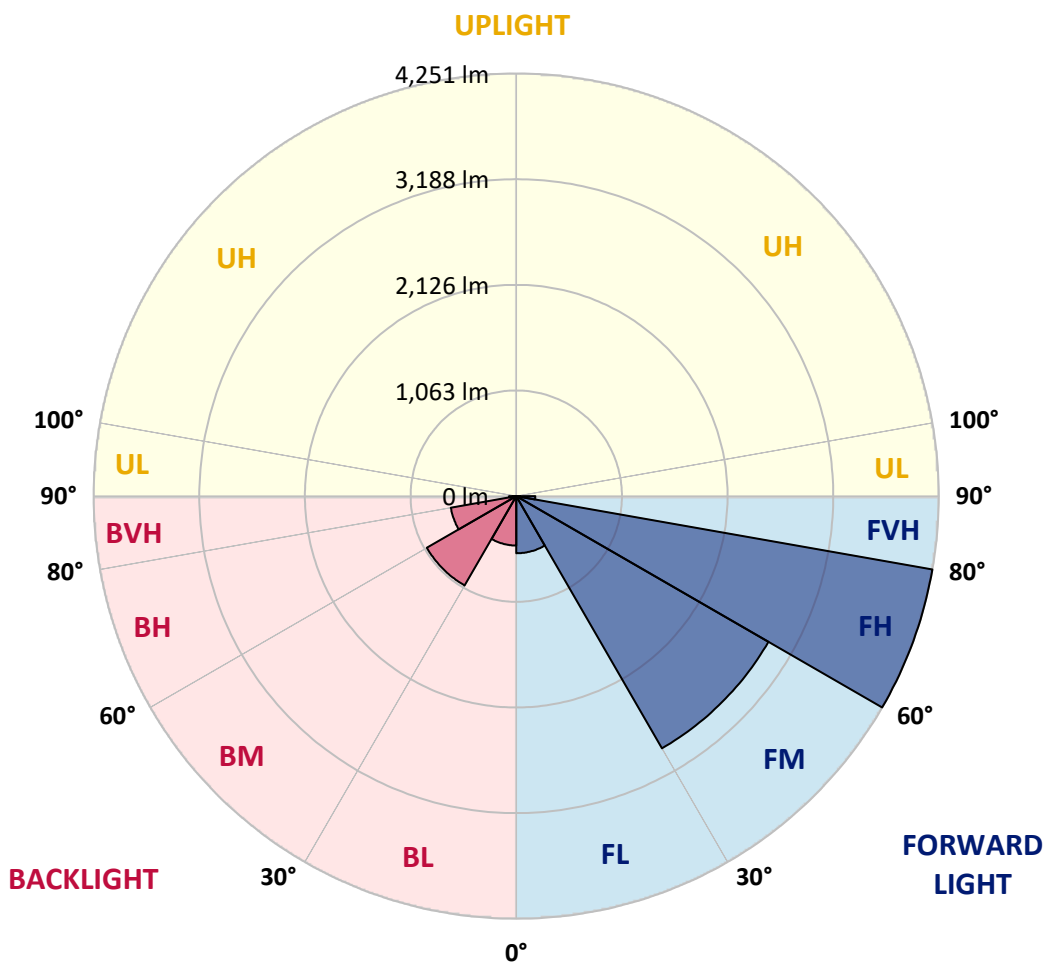
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	574.5	5.6			
FM (30°-60°)	2929.5	28.7			
FH (60°-80°)	4251.1	41.6			G2/5000
FVH (80°-90°)	192.0	1.9			G2/225
BL (0°-30°)	496.9	4.9	B1/500		
BM (30°-60°)	1038.6	10.2	B2/2500		
BH (60°-80°)	668.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	71.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV 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°	1109.0	1115.6	1109.0	1107.9	1096.9	1089.2	1095.8	1085.8	1074.8	1070.4	1060.5
5°	1210.4	1211.5	1199.4	1200.5	1177.3	1153.1	1157.5	1127.7	1095.8	1083.6	1063.8
7.5°	1314.0	1301.9	1284.3	1278.8	1242.4	1215.9	1212.6	1186.2	1136.6	1109.0	1081.4
10°	1381.3	1385.7	1357.0	1332.8	1301.9	1269.9	1268.8	1219.2	1190.6	1149.8	1114.5
12.5°	1440.8	1441.9	1417.7	1379.1	1340.5	1300.8	1306.3	1284.3	1235.8	1197.2	1161.9
15°	1487.1	1480.5	1454.0	1418.8	1378.0	1347.1	1343.8	1325.1	1284.3	1252.3	1193.9
17.5°	1500.3	1497.0	1470.6	1433.1	1393.4	1370.3	1379.1	1348.2	1331.7	1303.0	1246.8
20°	1475.0	1467.3	1462.9	1421.0	1392.3	1390.1	1382.4	1389.0	1361.4	1335.0	1294.2
22.5°	1428.7	1425.4	1423.2	1390.1	1376.9	1386.8	1400.0	1409.9	1405.5	1380.2	1333.9
25°	1381.3	1396.7	1382.4	1367.0	1385.7	1411.0	1407.7	1439.7	1439.7	1432.0	1393.4
27.5°	1414.4	1404.4	1393.4	1385.7	1392.3	1432.0	1429.8	1468.4	1482.7	1468.4	1424.3
30°	1497.0	1487.1	1455.1	1421.0	1412.2	1455.1	1466.2	1500.3	1507.0	1471.7	1434.2
32.5°	1652.5	1647.0	1596.3	1495.9	1441.9	1466.2	1471.7	1510.3	1504.8	1482.7	1467.3
35°	1882.9	1864.1	1793.6	1623.8	1504.8	1480.5	1466.2	1497.0	1518.0	1507.0	1492.6
37.5°	2135.3	2114.4	2027.3	1812.3	1618.3	1519.1	1508.1	1533.4	1557.7	1552.2	1522.4
40°	2376.7	2376.7	2298.5	2048.2	1787.0	1612.8	1615.0	1586.3	1608.4	1598.5	1604.0
42.5°	2614.9	2606.0	2574.1	2324.9	1967.8	1769.3	1734.0	1662.4	1702.1	1698.8	1706.5
45°	2856.3	2849.7	2840.8	2582.9	2226.8	1981.0	1962.2	1833.3	1869.6	1854.2	1887.3
47.5°	3049.2	3056.9	3056.9	2870.6	2503.5	2263.2	2235.6	2031.7	2101.1	2108.9	2116.6
50°	3213.4	3216.8	3213.4	3145.1	2812.2	2586.2	2530.0	2322.7	2392.2	2452.8	2523.4
52.5°	3440.5	3444.9	3429.5	3403.1	3231.1	2925.7	2862.9	2632.5	2774.7	2838.6	2965.4
55°	3720.5	3687.5	3658.8	3678.7	3633.5	3299.4	3234.4	2952.2	3166.0	3250.9	3504.5
57.5°	3772.4	3801.0	3873.8	4031.4	4096.5	3663.2	3625.7	3344.6	3608.1	3682.0	4105.3
60°	3955.3	3907.9	4086.5	4428.3	4501.0	4137.2	4098.7	3774.6	4047.9	4125.1	4659.8
62.5°	4075.5	4073.3	4337.9	4743.6	4908.9	4628.9	4550.6	4333.5	4523.1	4598.0	5263.9
65°	4040.2	4072.2	4541.8	4928.8	5249.5	5187.8	5142.6	4814.1	5064.3	5057.7	5657.4
67.5°	3718.3	3808.7	4412.8	5062.1	5756.6	5869.1	5854.8	5489.9	5504.2	5364.2	5832.7
70°	3271.9	3241.0	3867.2	4923.2	6010.2	6677.1	6673.8	5992.6	5900.0	5431.4	5330.0
72°	2513.4	2479.3	2994.1	4227.6	5876.8	7000.1	7099.3	6340.9	5895.5	5152.5	4402.9
72.5°	2281.9	2252.2	2764.8	3979.6	5729.1	7083.9	7037.6	6354.1	5849.2	5021.4	4113.0
75°	1050.6	1016.4	1381.3	2436.3	4469.1	6277.0	6434.6	5946.3	5108.4	3997.2	2463.8
77.5°	313.1	303.2	444.3	983.3	2597.2	4624.5	4685.1	4486.7	3566.2	2189.3	913.9
80°	174.2	175.3	229.3	368.2	1142.1	2673.3	2891.5	2771.4	1749.5	723.2	304.3
82.5°	97.0	102.5	143.3	218.3	524.7	1227.0	1320.7	1273.3	632.8	339.5	166.5
85°	50.7	52.9	75.0	116.9	297.6	388.0	399.1	427.7	328.5	231.5	89.3
87.5°	19.8	19.8	27.6	48.5	110.2	120.2	108.0	131.2	188.5	149.9	44.1
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°	1069.3	1060.5	1059.4	1045.1	1049.5	1037.3	1038.4	1036.2	1037.3	1035.1	1029.6
5°	1063.8	1057.2	1038.4	1050.6	1039.5	1055.0	1067.1	1062.7	1066.0	1064.9	1066.0
7.5°	1071.5	1062.7	1060.5	1053.9	1063.8	1070.4	1080.3	1107.9	1105.7	1109.0	1115.6
10°	1094.7	1084.7	1078.1	1088.1	1082.5	1103.5	1114.5	1128.8	1154.2	1155.3	1142.1
12.5°	1139.9	1133.2	1120.0	1122.2	1141.0	1147.6	1154.2	1163.0	1179.5	1176.2	1188.4
15°	1191.7	1177.3	1169.6	1167.4	1171.8	1179.5	1178.4	1187.3	1196.1	1203.8	1200.5
17.5°	1229.2	1210.4	1212.6	1223.6	1222.5	1220.3	1206.0	1201.6	1206.0	1210.4	1208.2
20°	1267.7	1269.9	1253.4	1243.5	1239.1	1217.0	1206.0	1192.8	1179.5	1186.2	1196.1
22.5°	1316.2	1306.3	1282.1	1252.3	1230.3	1217.0	1182.9	1159.7	1159.7	1166.3	1163.0
25°	1371.4	1350.4	1308.5	1254.5	1227.0	1170.7	1146.5	1143.2	1134.4	1144.3	1148.7
27.5°	1414.4	1395.6	1338.3	1246.8	1170.7	1125.5	1111.2	1106.8	1121.1	1122.2	1139.9
30°	1432.0	1426.5	1342.7	1227.0	1113.4	1040.6	1031.8	1051.7	1067.1	1090.3	1091.4
32.5°	1455.1	1457.3	1349.3	1180.7	1038.4	965.7	952.5	976.7	1020.8	1039.5	1053.9
35°	1493.7	1504.8	1343.8	1123.3	959.1	889.6	887.4	894.0	937.0	970.1	988.8
37.5°	1561.0	1558.8	1342.7	1055.0	896.2	823.5	805.8	808.0	836.7	864.3	861.0
40°	1651.4	1642.6	1339.4	965.7	814.7	767.3	737.5	726.5	724.3	716.5	718.8
42.5°	1774.8	1757.2	1338.3	875.3	740.8	690.1	669.1	640.5	619.5	579.9	582.1
45°	1946.8	1915.9	1309.6	790.4	668.0	626.2	594.2	573.2	528.0	478.4	478.4
47.5°	2212.5	2112.2	1310.7	696.7	597.5	563.3	541.3	504.9	456.4	416.7	412.3
50°	2603.8	2374.5	1273.3	622.8	540.2	517.0	493.9	452.0	405.7	378.1	381.4
52.5°	3108.7	2765.9	1272.1	556.7	495.0	478.4	453.1	415.6	381.4	363.8	357.2
55°	3710.6	3284.0	1311.8	502.7	448.7	439.9	428.8	398.0	364.9	349.5	348.4
57.5°	4326.9	3790.0	1375.8	464.1	409.0	415.6	407.9	383.6	357.2	339.5	337.3
60°	4874.7	4191.3	1246.8	417.8	373.7	388.0	399.1	378.1	363.8	362.7	355.0
62.5°	5288.1	4363.2	948.0	382.5	355.0	381.4	411.2	424.4	417.8	426.6	427.7
65°	5439.2	4259.6	652.6	363.8	340.6	396.9	463.0	458.6	420.0	403.5	412.3
67.5°	5227.5	3839.6	483.9	341.7	330.7	428.8	492.8	437.6	379.2	377.0	370.4
70°	4495.5	3254.2	394.7	318.6	314.2	411.2	479.5	405.7	357.2	342.8	336.2
72°	3581.6	2534.4	346.1	302.1	287.7	367.1	448.7	380.3	338.4	320.8	313.1
72.5°	3269.7	2349.2	339.5	294.3	282.2	357.2	433.2	372.6	334.0	318.6	306.5
75°	1793.6	1202.7	298.7	270.1	238.1	308.7	401.3	349.5	315.3	293.2	291.0
77.5°	666.9	466.3	258.0	239.2	206.1	266.8	364.9	331.8	286.6	259.1	253.5
80°	255.8	245.8	210.6	201.7	173.1	233.7	336.2	297.6	243.6	216.1	207.2
82.5°	155.4	143.3	159.8	157.6	132.3	212.8	316.4	278.9	216.1	175.3	169.8
85°	84.9	84.9	111.3	106.9	92.6	169.8	239.2	185.2	136.7	112.4	114.6
87.5°	37.5	44.1	59.5	56.2	50.7	95.9	116.9	98.1	68.3	46.3	49.6
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)