

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: P478390

Luminaire Tested: **IFLD-S-SA3A-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

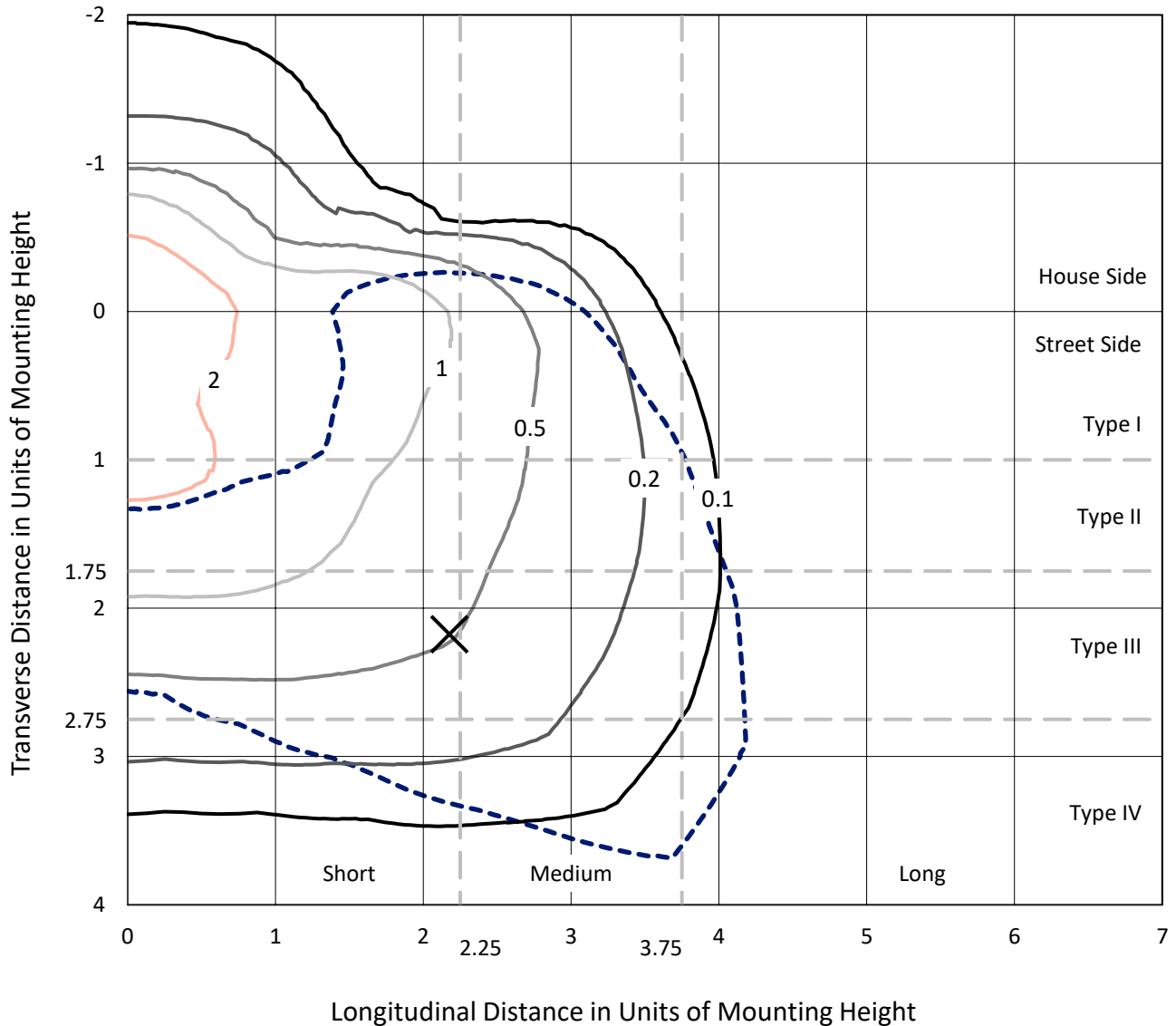
Lumens per Lamp: N/A
Luminaire Lumens: 10243.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

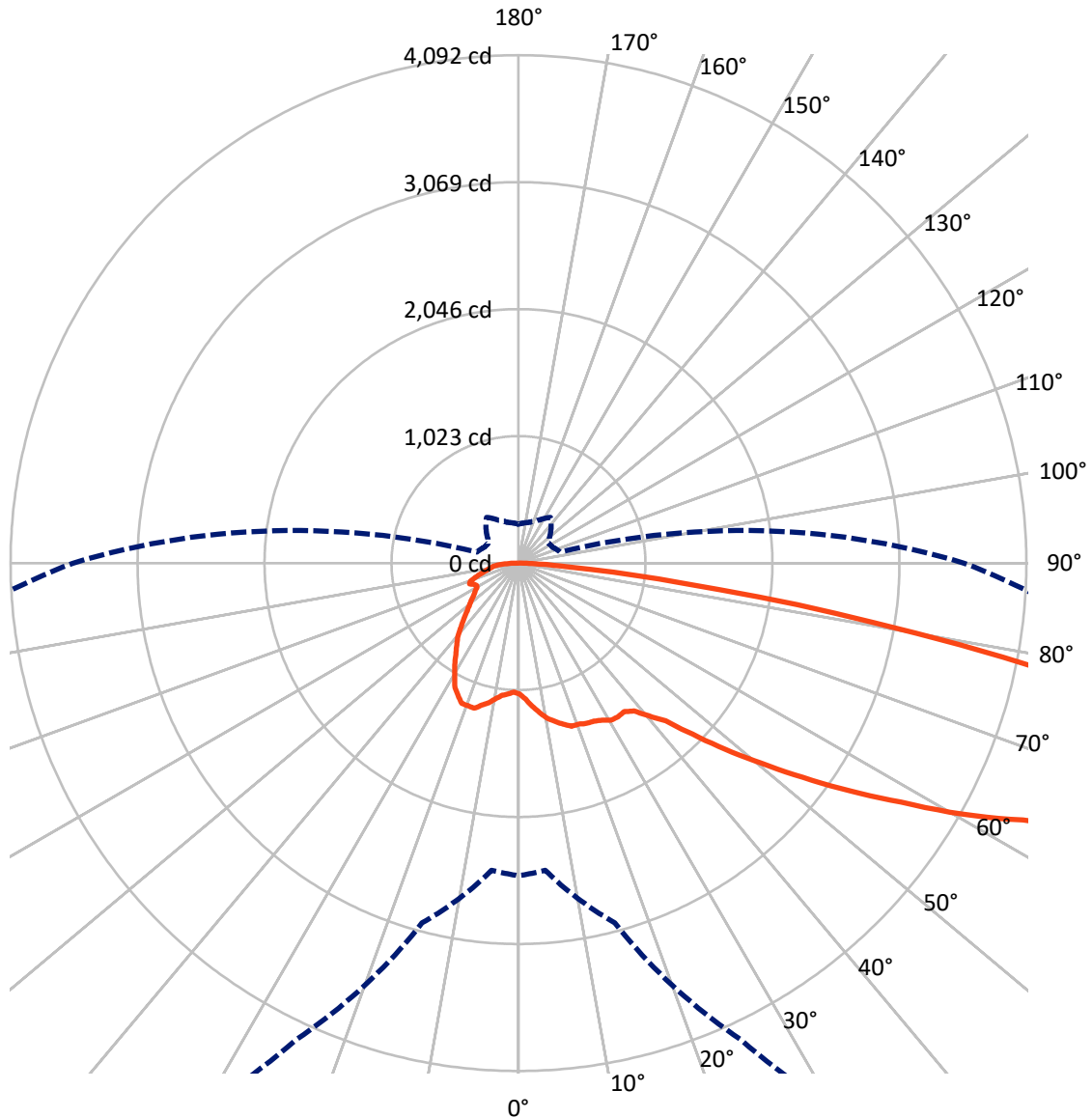
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2280.3	0.0	2280.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7963.5	0.0	7963.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	10243.8	0.0	10243.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.1
10°-20°	359.2	3.5
20°-30°	606.5	5.9
30°-40°	839.3	8.2
40°-50°	1200.5	11.7
50°-60°	1936.3	18.9
60°-70°	2855.8	27.9
70°-80°	2073.8	20.2
80°-90°	264.4	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°	10243.8	100.0
0°-180°	10243.8	100.0

Coefficient of Utilization



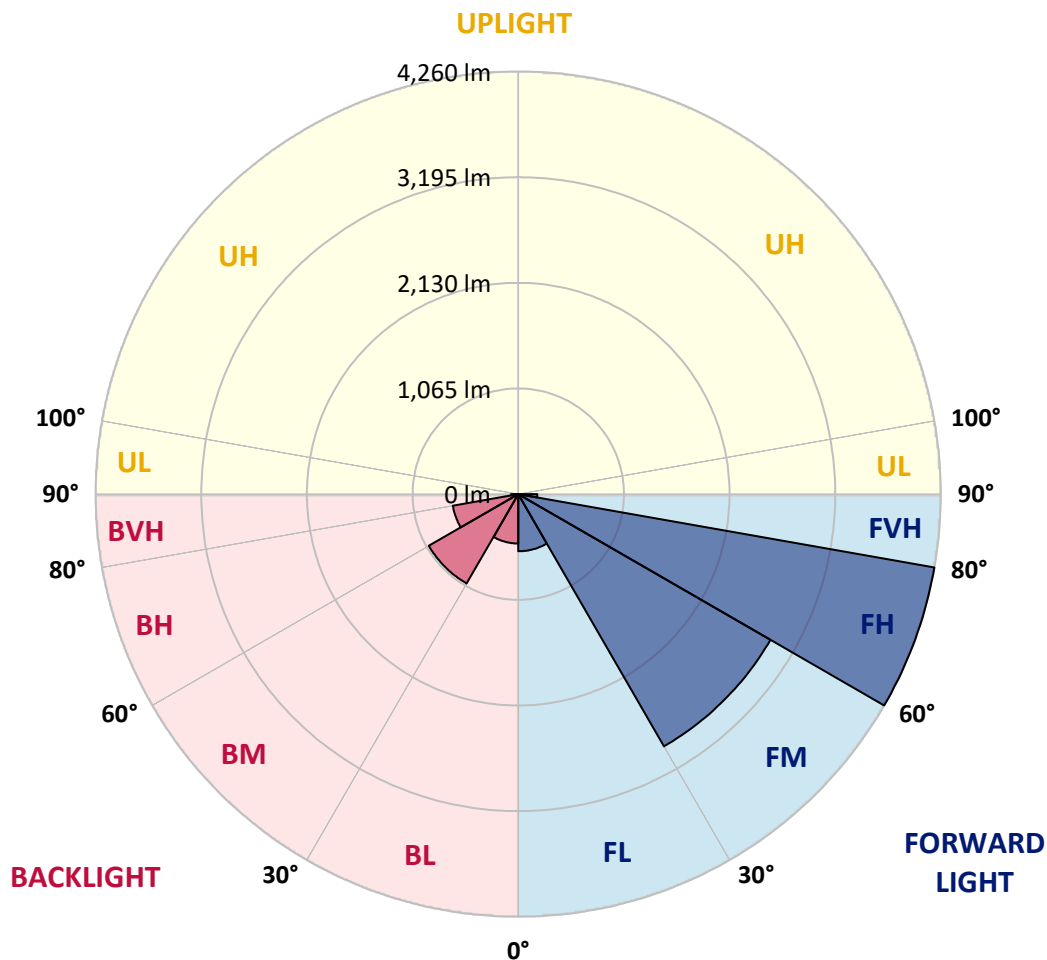
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.7	5.6			
FM (30°-60°)	2935.5	28.7			
FH (60°-80°)	4259.8	41.6			G2/5000
FVH (80°-90°)	192.4	1.9			G2/225
BL (0°-30°)	497.9	4.9	B1/500		
BM (30°-60°)	1040.7	10.2	B2/2500		
BH (60°-80°)	669.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	71.9	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°	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	1111.3	1117.9	1111.3	1110.2	1099.1	1091.4	1098.0	1088.1	1077.0	1072.6	1062.7
5°	1212.9	1214.0	1201.8	1202.9	1179.7	1155.4	1159.9	1130.0	1098.0	1085.9	1066.0
7.5°	1316.7	1304.6	1286.9	1281.4	1244.9	1218.4	1215.1	1188.6	1138.9	1111.3	1083.6
10°	1384.1	1388.5	1359.8	1335.5	1304.6	1272.5	1271.4	1221.7	1193.0	1152.1	1116.8
12.5°	1443.8	1444.9	1420.6	1381.9	1343.2	1303.5	1309.0	1286.9	1238.3	1199.6	1164.3
15°	1490.1	1483.5	1457.0	1421.7	1380.8	1349.9	1346.5	1327.8	1286.9	1254.9	1196.3
17.5°	1503.4	1500.1	1473.6	1436.0	1396.3	1373.1	1381.9	1351.0	1334.4	1305.7	1249.3
20°	1478.0	1470.3	1465.8	1423.9	1395.2	1392.9	1385.2	1391.8	1364.2	1337.7	1296.8
22.5°	1431.6	1428.3	1426.1	1392.9	1379.7	1389.6	1402.9	1412.8	1408.4	1383.0	1336.6
25°	1384.1	1399.6	1385.2	1369.7	1388.5	1413.9	1410.6	1442.6	1442.6	1434.9	1396.3
27.5°	1417.2	1407.3	1396.3	1388.5	1395.2	1434.9	1432.7	1471.4	1485.7	1471.4	1427.2
30°	1500.1	1490.1	1458.1	1423.9	1415.0	1458.1	1469.2	1503.4	1510.0	1474.7	1437.1
32.5°	1655.8	1650.3	1599.5	1499.0	1444.9	1469.2	1474.7	1513.3	1507.8	1485.7	1470.3
35°	1886.7	1867.9	1797.2	1627.1	1507.8	1483.5	1469.2	1500.1	1521.1	1510.0	1495.7
37.5°	2139.7	2118.7	2031.4	1816.0	1621.6	1522.2	1511.1	1536.5	1560.8	1555.3	1525.5
40°	2381.6	2381.6	2303.2	2052.4	1790.6	1616.1	1618.3	1589.6	1611.7	1601.7	1607.2
42.5°	2620.2	2611.4	2579.3	2329.7	1971.8	1772.9	1737.6	1665.8	1705.6	1702.2	1710.0
45°	2862.1	2855.5	2846.6	2588.2	2231.4	1985.0	1966.2	1837.0	1873.5	1858.0	1891.1
47.5°	3055.4	3063.1	3063.1	2876.5	2508.6	2267.8	2240.2	2035.8	2105.4	2113.2	2120.9
50°	3220.0	3223.3	3220.0	3151.5	2817.9	2591.5	2535.1	2327.5	2397.1	2457.8	2528.5
52.5°	3447.6	3452.0	3436.5	3410.0	3237.7	2931.7	2868.7	2637.9	2780.4	2844.4	2971.5
55°	3728.1	3695.0	3666.3	3686.2	3640.9	3306.2	3241.0	2958.2	3172.5	3257.6	3511.6
57.5°	3780.1	3808.8	3881.7	4039.6	4104.8	3670.7	3633.1	3351.5	3615.5	3689.5	4113.6
60°	3963.4	3915.9	4094.9	4437.3	4510.2	4145.7	4107.0	3782.3	4056.2	4133.5	4669.3
62.5°	4083.8	4081.6	4346.7	4753.2	4918.9	4638.4	4559.9	4342.3	4532.3	4607.4	5274.6
65°	4048.5	4080.5	4551.1	4938.8	5260.3	5198.4	5153.1	4823.9	5074.7	5068.1	5669.0
67.5°	3725.9	3816.5	4421.8	5072.5	5768.4	5881.1	5866.7	5501.1	5515.4	5375.1	5844.6
70°	3278.5	3247.6	3875.0	4933.3	6022.5	6690.8	6687.4	6004.8	5912.0	5442.5	5340.9
72°	2518.6	2484.3	3000.2	4236.3	5888.8	7014.4	7113.8	6353.8	5907.6	5163.1	4411.9
72.5°	2286.6	2256.8	2770.4	3987.7	5740.8	7098.4	7052.0	6367.1	5861.2	5031.6	4121.4
75°	1052.7	1018.5	1384.1	2441.2	4478.2	6289.8	6447.7	5958.4	5118.9	4005.4	2468.9
77.5°	313.7	303.8	445.2	985.3	2602.5	4633.9	4694.7	4495.9	3573.5	2193.8	915.7
80°	174.5	175.6	229.8	368.9	1144.4	2678.7	2897.4	2777.0	1753.1	724.6	304.9
82.5°	97.2	102.7	143.6	218.7	525.8	1229.5	1323.3	1275.9	634.1	340.2	166.8
85°	50.8	53.0	75.1	117.1	298.3	388.8	399.9	428.6	329.2	232.0	89.5
87.5°	19.9	19.9	27.6	48.6	110.5	120.4	108.3	131.5	188.9	150.2	44.2
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°	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9	1054.9
2.5°	1071.5	1062.7	1061.6	1047.2	1051.6	1039.5	1040.6	1038.4	1039.5	1037.2	1031.7
5°	1066.0	1059.3	1040.6	1052.7	1041.7	1057.1	1069.3	1064.9	1068.2	1067.1	1068.2
7.5°	1073.7	1064.9	1062.7	1056.0	1066.0	1072.6	1082.5	1110.2	1107.9	1111.3	1117.9
10°	1096.9	1087.0	1080.3	1090.3	1084.7	1105.7	1116.8	1131.1	1156.5	1157.7	1144.4
12.5°	1142.2	1135.6	1122.3	1124.5	1143.3	1149.9	1156.5	1165.4	1182.0	1178.6	1190.8
15°	1194.1	1179.7	1172.0	1169.8	1174.2	1182.0	1180.9	1189.7	1198.5	1206.3	1202.9
17.5°	1231.7	1212.9	1215.1	1226.1	1225.0	1222.8	1208.5	1204.0	1208.5	1212.9	1210.7
20°	1270.3	1272.5	1256.0	1246.0	1241.6	1219.5	1208.5	1195.2	1182.0	1188.6	1198.5
22.5°	1318.9	1309.0	1284.7	1254.9	1232.8	1219.5	1185.3	1162.1	1162.1	1168.7	1165.4
25°	1374.2	1353.2	1311.2	1257.1	1229.5	1173.1	1148.8	1145.5	1136.7	1146.6	1151.0
27.5°	1417.2	1398.5	1341.0	1249.3	1173.1	1127.8	1113.5	1109.1	1123.4	1124.5	1142.2
30°	1434.9	1429.4	1345.4	1229.5	1115.7	1042.8	1033.9	1053.8	1069.3	1092.5	1093.6
32.5°	1458.1	1460.3	1352.1	1183.1	1040.6	967.7	954.4	978.7	1022.9	1041.7	1056.0
35°	1496.8	1507.8	1346.5	1125.6	961.0	891.4	889.2	895.9	938.9	972.1	990.9
37.5°	1564.2	1561.9	1345.4	1057.1	898.1	825.2	807.5	809.7	838.4	866.0	862.7
40°	1654.7	1645.9	1342.1	967.7	816.3	768.8	739.0	728.0	725.7	718.0	720.2
42.5°	1778.5	1760.8	1341.0	877.1	742.3	691.5	670.5	641.8	620.8	581.0	583.2
45°	1950.8	1919.9	1312.3	792.0	669.4	627.4	595.4	574.4	529.1	479.4	479.4
47.5°	2217.0	2116.5	1313.4	698.1	598.7	564.5	542.4	505.9	457.3	417.6	413.1
50°	2609.1	2379.4	1275.9	624.1	541.3	518.1	494.9	452.9	406.5	378.9	382.2
52.5°	3115.1	2771.5	1274.7	557.8	496.0	479.4	454.0	416.4	382.2	364.5	357.9
55°	3718.2	3290.7	1314.5	503.7	449.6	440.7	429.7	398.8	365.6	350.2	349.1
57.5°	4335.7	3797.7	1378.6	465.1	409.8	416.4	408.7	384.4	357.9	340.2	338.0
60°	4884.7	4199.8	1249.3	418.7	374.5	388.8	399.9	378.9	364.5	363.4	355.7
62.5°	5298.9	4372.1	950.0	383.3	355.7	382.2	412.0	425.3	418.7	427.5	428.6
65°	5450.3	4268.3	653.9	364.5	341.3	397.7	463.9	459.5	420.9	404.3	413.1
67.5°	5238.2	3847.4	484.9	342.4	331.4	429.7	493.8	438.5	380.0	377.8	371.2
70°	4504.7	3260.9	395.5	319.2	314.8	412.0	480.5	406.5	357.9	343.5	336.9
72°	3588.9	2539.5	346.9	302.7	288.3	367.8	449.6	381.1	339.1	321.4	313.7
72.5°	3276.3	2354.0	340.2	294.9	282.8	357.9	434.1	373.4	334.7	319.2	307.1
75°	1797.2	1205.2	299.4	270.6	238.6	309.3	402.1	350.2	315.9	293.8	291.6
77.5°	668.3	467.3	258.5	239.7	206.6	267.3	365.6	332.5	287.2	259.6	254.1
80°	256.3	246.3	211.0	202.1	173.4	234.2	336.9	298.3	244.1	216.5	207.7
82.5°	155.8	143.6	160.2	158.0	132.6	213.2	317.0	279.5	216.5	175.6	170.1
85°	85.1	85.1	111.6	107.1	92.8	170.1	239.7	185.6	137.0	112.7	114.9
87.5°	37.6	44.2	59.7	56.3	50.8	96.1	117.1	98.3	68.5	46.4	49.7
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)