

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: P478464

Luminaire Tested: **IFLD-S-SA2B-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

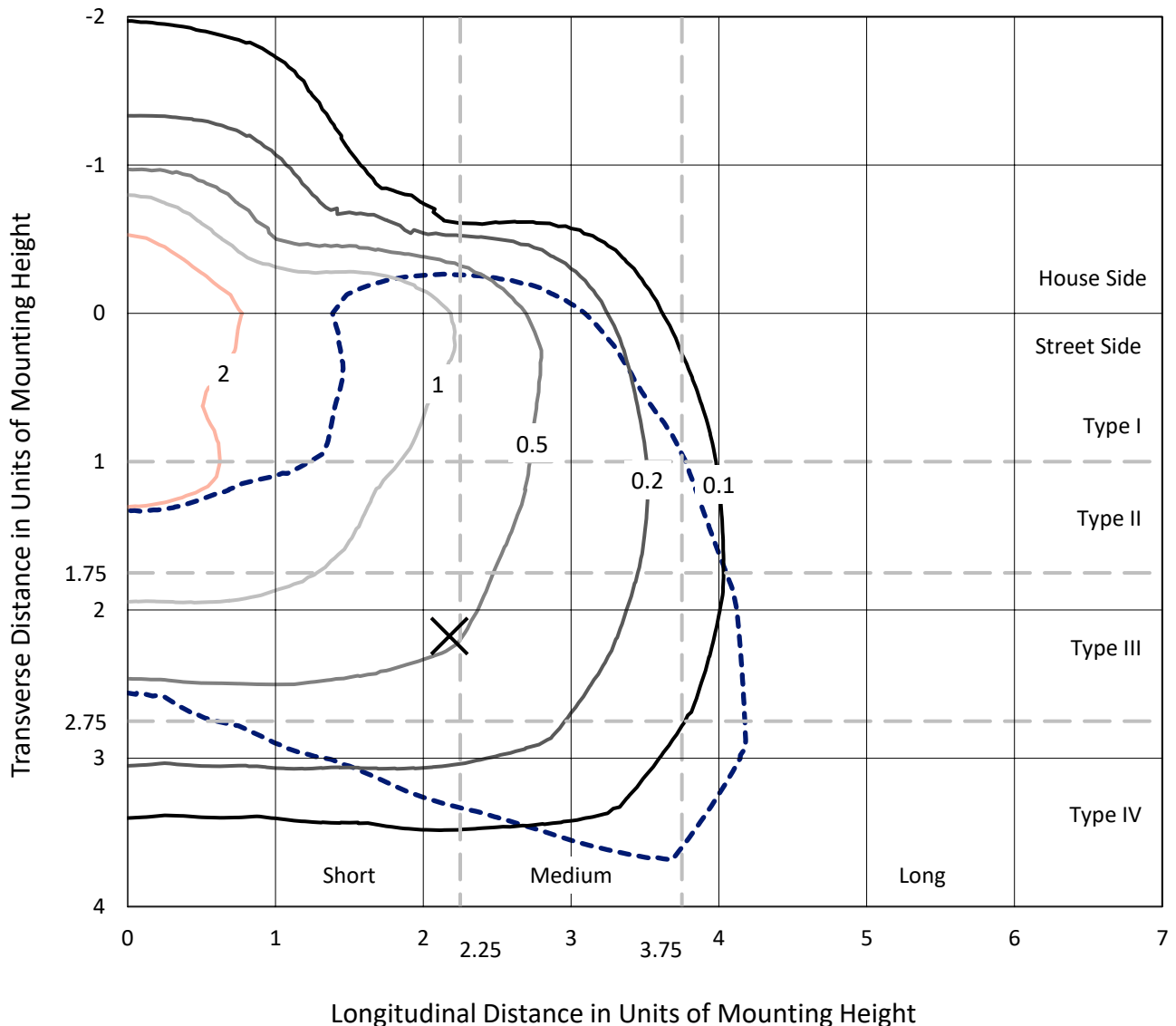
Lumens per Lamp: N/A
Luminaire Lumens: 10509.1 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

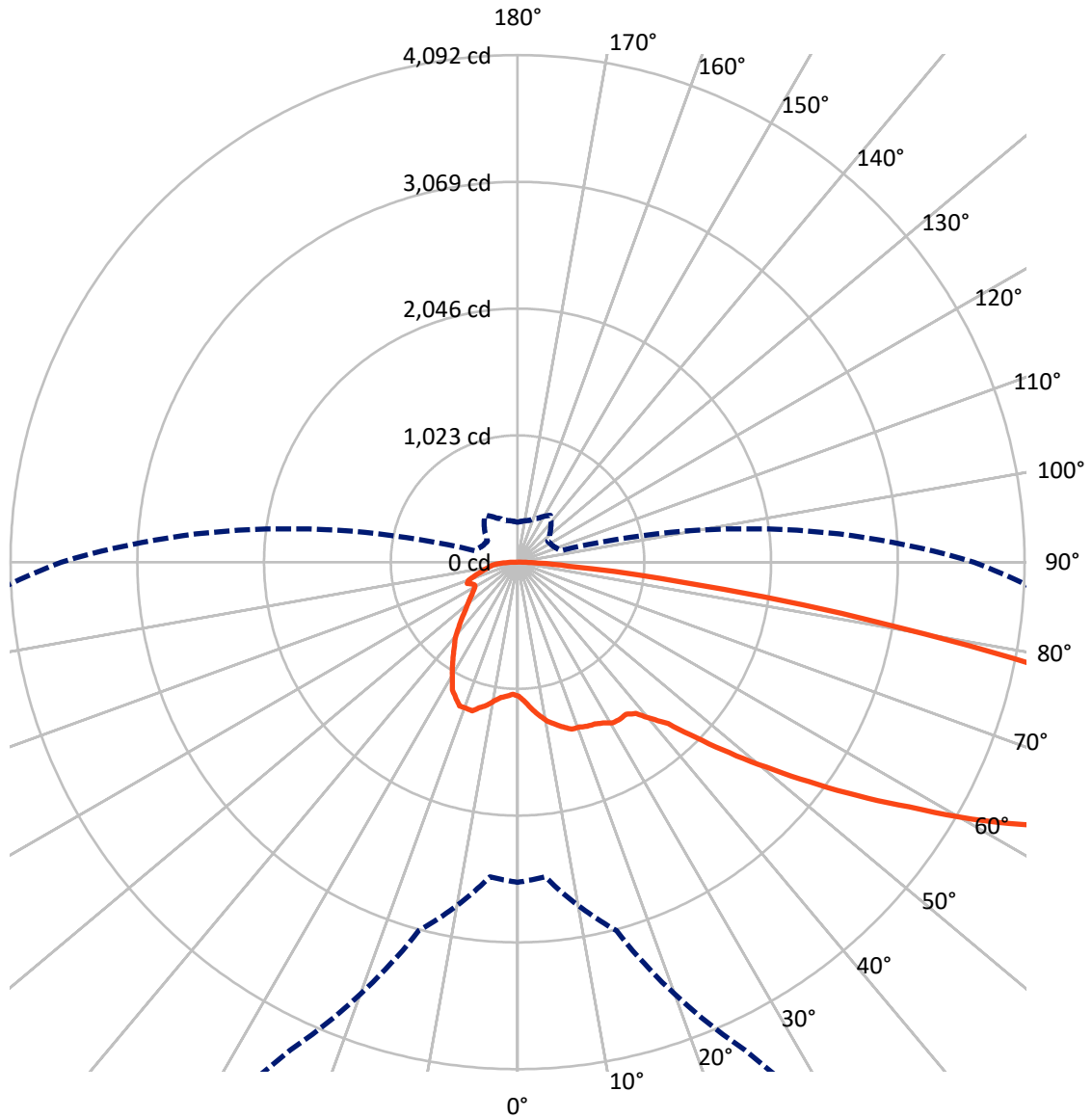
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: IFLD-S-SA2B-730-U-T4W

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	2339.4	0.0	2339.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8169.7	0.0	8169.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	10509.1	0.0	10509.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.1
10°-20°	368.5	3.5
20°-30°	622.2	5.9
30°-40°	861.0	8.2
40°-50°	1231.6	11.7
50°-60°	1986.5	18.9
60°-70°	2929.8	27.9
70°-80°	2127.5	20.2
80°-90°	271.2	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°	10509.1	100.0
0°-180°	10509.1	100.0

Coefficient of Utilization



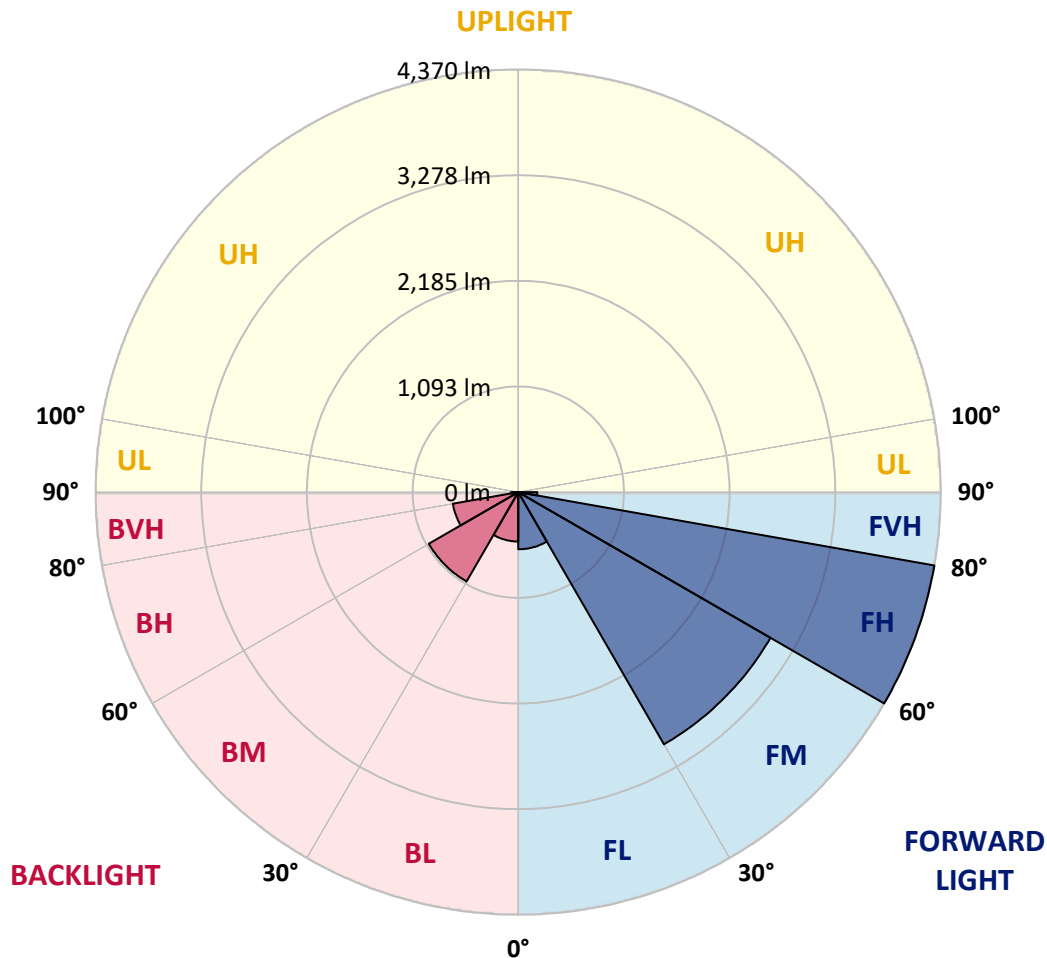
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.6	5.6			
FM (30°-60°)	3011.5	28.7			
FH (60°-80°)	4370.2	41.6			G2/5000
FVH (80°-90°)	197.4	1.9			G2/225
BL (0°-30°)	510.8	4.9	B2/1000		
BM (30°-60°)	1067.6	10.2	B2/2500		
BH (60°-80°)	687.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	73.8	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°	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1140.0	1146.8	1140.0	1138.9	1127.6	1119.6	1126.4	1116.2	1104.9	1100.4	1090.2
5°	1244.3	1245.4	1233.0	1234.1	1210.3	1185.4	1189.9	1159.3	1126.4	1114.0	1093.6
7.5°	1350.8	1338.4	1320.2	1314.6	1277.2	1250.0	1246.6	1219.4	1168.4	1140.0	1111.7
10°	1420.0	1424.5	1395.0	1370.1	1338.4	1305.5	1304.4	1253.4	1223.9	1182.0	1145.7
12.5°	1481.1	1482.3	1457.4	1417.7	1378.0	1337.2	1342.9	1320.2	1270.4	1230.7	1194.4
15°	1528.7	1521.9	1494.7	1458.5	1416.6	1384.8	1381.4	1362.2	1320.2	1287.4	1227.3
17.5°	1542.3	1538.9	1511.7	1473.2	1432.4	1408.6	1417.7	1386.0	1369.0	1339.5	1281.7
20°	1516.3	1508.3	1503.8	1460.8	1431.3	1429.0	1421.1	1427.9	1399.6	1372.4	1330.4
22.5°	1468.7	1465.3	1463.0	1429.0	1415.4	1425.6	1439.2	1449.4	1444.9	1418.8	1371.2
25°	1420.0	1435.8	1421.1	1405.2	1424.5	1450.6	1447.2	1480.0	1480.0	1472.1	1432.4
27.5°	1454.0	1443.8	1432.4	1424.5	1431.3	1472.1	1469.8	1509.5	1524.2	1509.5	1464.1
30°	1538.9	1528.7	1495.9	1460.8	1451.7	1495.9	1507.2	1542.3	1549.1	1512.9	1474.3
32.5°	1698.7	1693.1	1640.9	1537.8	1482.3	1507.2	1512.9	1552.5	1546.9	1524.2	1508.3
35°	1935.6	1916.3	1843.8	1669.3	1546.9	1521.9	1507.2	1538.9	1560.5	1549.1	1534.4
37.5°	2195.1	2173.6	2084.0	1863.1	1663.6	1561.6	1550.3	1576.3	1601.3	1595.6	1565.0
40°	2443.3	2443.3	2362.8	2105.6	1837.0	1657.9	1660.2	1630.7	1653.4	1643.2	1648.9
42.5°	2688.1	2679.0	2646.1	2390.0	2022.8	1818.9	1782.6	1708.9	1749.7	1746.3	1754.3
45°	2936.2	2929.4	2920.4	2655.2	2289.2	2036.4	2017.2	1884.6	1922.0	1906.1	1940.1
47.5°	3134.5	3142.5	3142.5	2951.0	2573.6	2326.5	2298.2	2088.6	2160.0	2167.9	2175.8
50°	3303.4	3306.8	3303.4	3233.1	2890.9	2658.6	2600.8	2387.7	2459.1	2521.5	2594.0
52.5°	3536.9	3541.4	3525.5	3498.3	3321.5	3007.6	2943.0	2706.2	2852.4	2918.1	3048.4
55°	3824.7	3790.7	3761.2	3781.6	3735.2	3391.8	3324.9	3034.8	3254.7	3341.9	3602.6
57.5°	3878.0	3907.4	3982.2	4144.3	4211.1	3765.8	3727.2	3438.3	3709.1	3785.0	4220.2
60°	4066.1	4017.3	4200.9	4552.2	4627.0	4253.1	4213.4	3880.2	4161.3	4240.6	4790.2
62.5°	4189.6	4187.3	4459.3	4876.3	5046.3	4758.5	4678.0	4454.8	4649.7	4726.8	5411.2
65°	4153.3	4186.2	4669.0	5066.7	5396.5	5333.0	5286.6	4948.9	5206.1	5199.3	5815.8
67.5°	3822.4	3915.4	4536.4	5203.9	5917.8	6033.4	6018.7	5643.5	5658.3	5514.4	5996.0
70°	3363.5	3331.7	3975.4	5061.1	6178.4	6864.1	6860.7	6160.3	6065.1	5583.5	5479.2
72°	2583.8	2548.7	3077.9	4346.0	6041.3	7196.1	7298.1	6518.4	6060.6	5296.8	4526.2
72.5°	2345.8	2315.2	2842.2	4091.0	5889.5	7282.2	7234.6	6532.0	6013.0	5161.9	4228.1
75°	1080.0	1044.8	1420.0	2504.5	4594.2	6452.7	6614.7	6112.7	5251.4	4109.1	2532.8
77.5°	321.8	311.6	456.7	1010.9	2669.9	4754.0	4816.3	4612.3	3666.0	2250.6	939.5
80°	179.1	180.2	235.7	378.5	1174.0	2748.1	2972.5	2849.0	1798.5	743.4	312.8
82.5°	99.7	105.4	147.3	224.4	539.4	1261.3	1357.6	1308.9	650.5	349.0	171.1
85°	52.1	54.4	77.1	120.1	306.0	398.9	410.2	439.7	337.7	238.0	91.8
87.5°	20.4	20.4	28.3	49.9	113.3	123.5	111.1	134.9	193.8	154.1	45.3
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°	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1099.2	1090.2	1089.0	1074.3	1078.8	1066.4	1067.5	1065.2	1066.4	1064.1	1058.4
5°	1093.6	1086.8	1067.5	1080.0	1068.6	1084.5	1097.0	1092.4	1095.8	1094.7	1095.8
7.5°	1101.5	1092.4	1090.2	1083.4	1093.6	1100.4	1110.6	1138.9	1136.6	1140.0	1146.8
10°	1125.3	1115.1	1108.3	1118.5	1112.8	1134.4	1145.7	1160.4	1186.5	1187.6	1174.0
12.5°	1171.8	1165.0	1151.4	1153.6	1172.9	1179.7	1186.5	1195.6	1212.6	1209.2	1221.6
15°	1225.0	1210.3	1202.4	1200.1	1204.6	1212.6	1211.4	1220.5	1229.6	1237.5	1234.1
17.5°	1263.6	1244.3	1246.6	1257.9	1256.8	1254.5	1239.8	1235.2	1239.8	1244.3	1242.0
20°	1303.2	1305.5	1288.5	1278.3	1273.8	1251.1	1239.8	1226.2	1212.6	1219.4	1229.6
22.5°	1353.1	1342.9	1318.0	1287.4	1264.7	1251.1	1216.0	1192.2	1192.2	1199.0	1195.6
25°	1409.8	1388.2	1345.2	1289.6	1261.3	1203.5	1178.6	1175.2	1166.1	1176.3	1180.8
27.5°	1454.0	1434.7	1375.8	1281.7	1203.5	1157.0	1142.3	1137.8	1152.5	1153.6	1171.8
30°	1472.1	1466.4	1380.3	1261.3	1144.6	1069.8	1060.7	1081.1	1097.0	1120.8	1121.9
32.5°	1495.9	1498.1	1387.1	1213.7	1067.5	992.7	979.1	1004.1	1049.4	1068.6	1083.4
35°	1535.5	1546.9	1381.4	1154.8	985.9	914.5	912.3	919.1	963.3	997.3	1016.5
37.5°	1604.7	1602.4	1380.3	1084.5	921.3	846.5	828.4	830.7	860.1	888.5	885.1
40°	1697.6	1688.5	1376.9	992.7	837.5	788.7	758.1	746.8	744.5	736.6	738.9
42.5°	1824.5	1806.4	1375.8	899.8	761.5	709.4	687.9	658.4	636.9	596.1	598.4
45°	2001.3	1969.6	1346.3	812.5	686.7	643.7	610.8	589.3	542.8	491.8	491.8
47.5°	2274.4	2171.3	1347.4	716.2	614.2	579.1	556.4	519.0	469.2	428.4	423.8
50°	2676.7	2441.0	1308.9	640.3	555.3	531.5	507.7	464.6	417.0	388.7	392.1
52.5°	3195.7	2843.3	1307.8	572.3	508.8	491.8	465.8	427.2	392.1	374.0	367.2
55°	3814.5	3375.9	1348.6	516.8	461.2	452.2	440.8	409.1	375.1	359.2	358.1
57.5°	4448.0	3896.1	1414.3	477.1	420.4	427.2	419.3	394.4	367.2	349.0	346.8
60°	5011.2	4308.6	1281.7	429.5	384.2	398.9	410.2	388.7	374.0	372.8	364.9
62.5°	5436.2	4485.4	974.6	393.2	364.9	392.1	422.7	436.3	429.5	438.6	439.7
65°	5591.4	4378.9	670.9	374.0	350.2	408.0	476.0	471.4	431.8	414.8	423.8
67.5°	5373.8	3947.1	497.5	351.3	340.0	440.8	506.6	449.9	389.8	387.6	380.8
70°	4621.4	3345.3	405.7	327.5	323.0	422.7	493.0	417.0	367.2	352.4	345.6
72°	3681.9	2605.3	355.8	310.5	295.8	377.4	461.2	391.0	347.9	329.8	321.8
72.5°	3361.2	2414.9	349.0	302.6	290.1	367.2	445.4	383.0	343.4	327.5	315.0
75°	1843.8	1236.4	307.1	277.6	244.8	317.3	412.5	359.2	324.1	301.4	299.2
77.5°	685.6	479.4	265.2	245.9	211.9	274.2	375.1	341.1	294.6	266.3	260.6
80°	262.9	252.7	216.4	207.4	177.9	240.2	345.6	306.0	250.4	222.1	213.0
82.5°	159.8	147.3	164.3	162.1	136.0	218.7	325.2	286.7	222.1	180.2	174.5
85°	87.3	87.3	114.5	109.9	95.2	174.5	245.9	190.4	140.5	115.6	117.9
87.5°	38.5	45.3	61.2	57.8	52.1	98.6	120.1	100.9	70.3	47.6	51.0
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)