

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: P478661

Luminaire Tested: **IFLD-S-SA2D-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478661  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

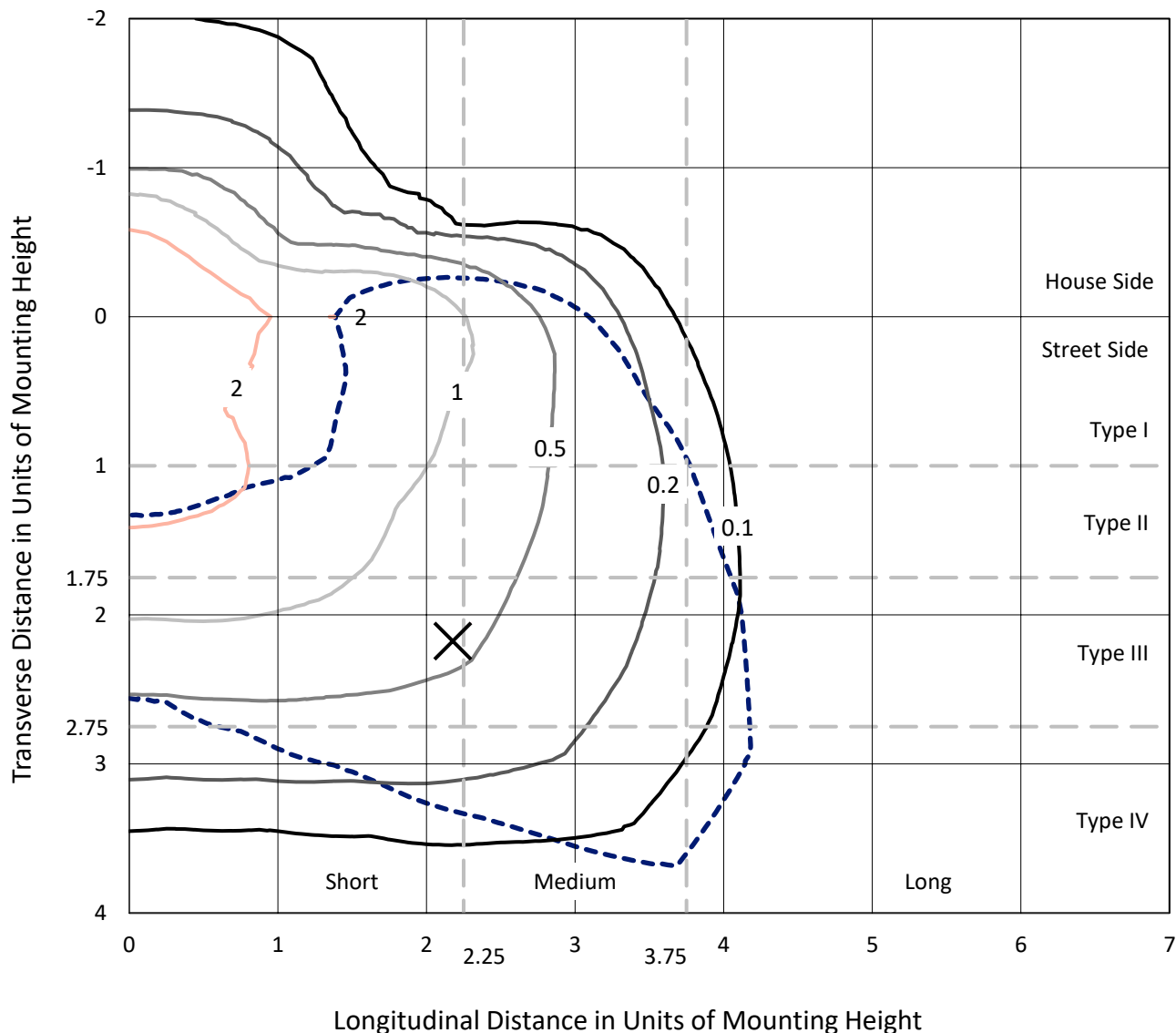
Lumens per Lamp: N/A  
Luminaire Lumens: 11620.5 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

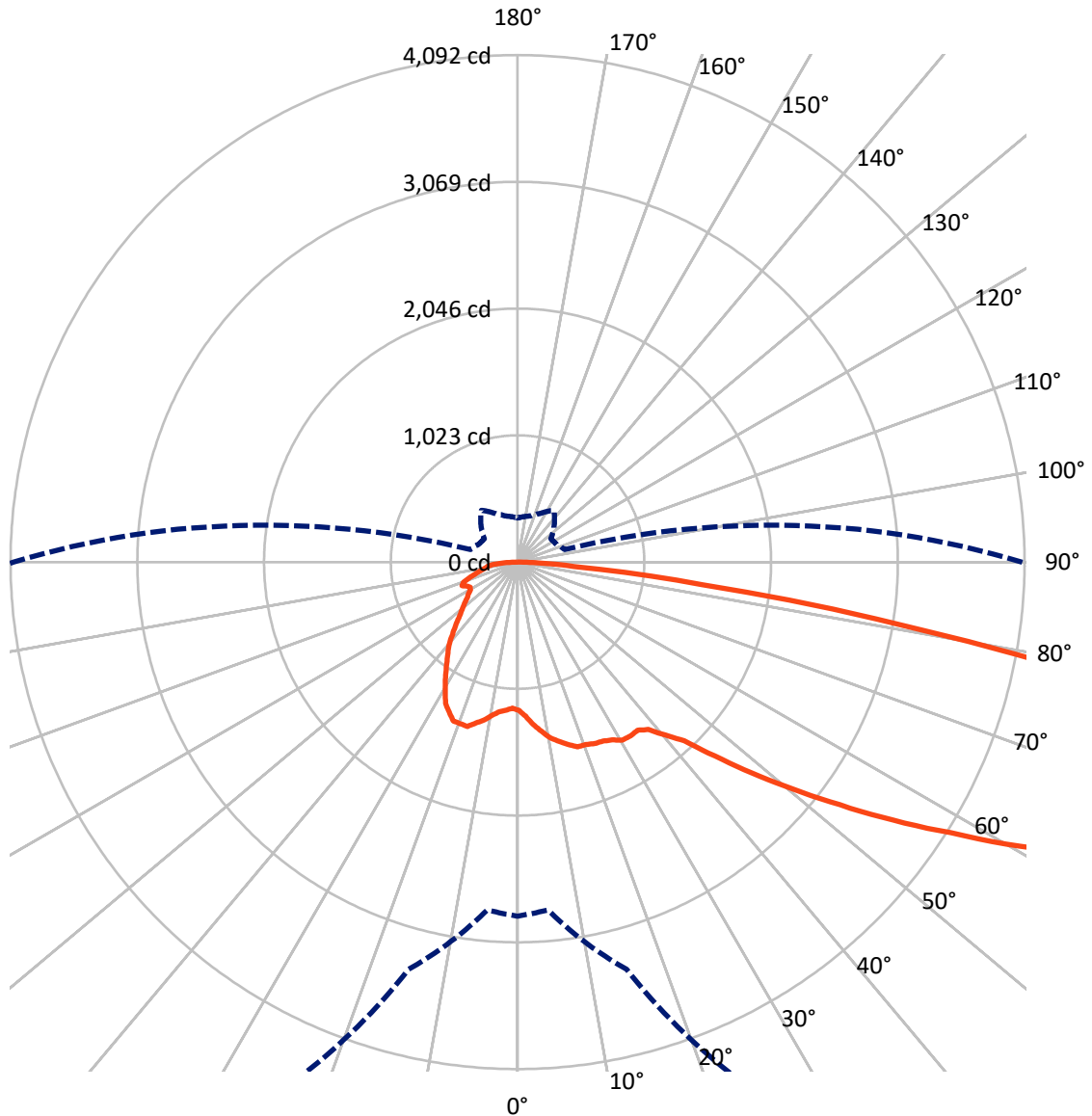
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	2586.8	0.0	2586.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9033.7	0.0	9033.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	11620.5	0.0	11620.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	1.1
10°-20°	407.4	3.5
20°-30°	688.0	5.9
30°-40°	952.1	8.2
40°-50°	1361.9	11.7
50°-60°	2196.6	18.9
60°-70°	3239.6	27.9
70°-80°	2352.5	20.2
80°-90°	299.9	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°	11620.5	100.0
0°-180°	11620.5	100.0

**Coefficient of Utilization**



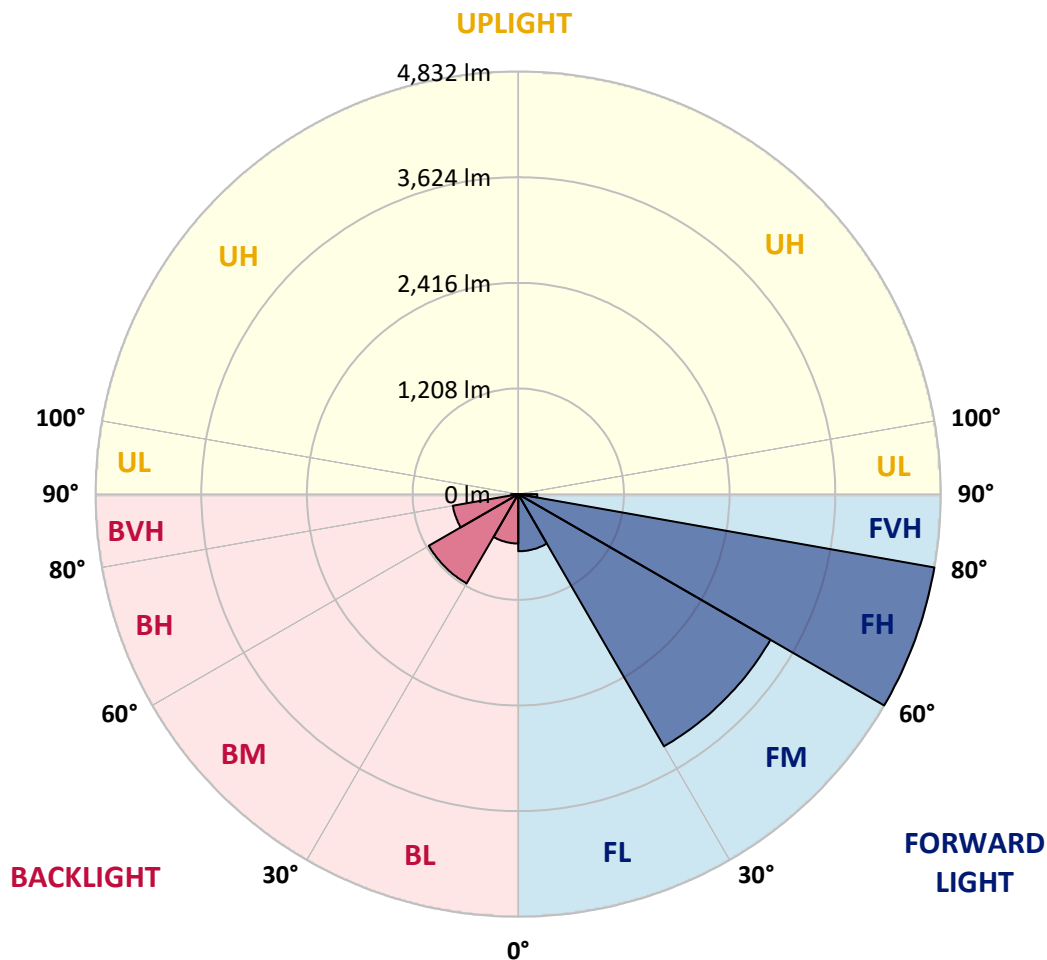
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.1	5.6			
FM (30°-60°)	3330.0	28.7			
FH (60°-80°)	4832.3	41.6			G2/5000
FVH (80°-90°)	218.3	1.9			G2/225
BL (0°-30°)	564.8	4.9	B2/1000		
BM (30°-60°)	1180.5	10.2	B2/2500		
BH (60°-80°)	759.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	81.6	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°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1260.6	1268.1	1260.6	1259.4	1246.8	1238.1	1245.6	1234.3	1221.8	1216.8	1205.5
5°	1375.9	1377.2	1363.4	1364.6	1338.3	1310.7	1315.7	1281.9	1245.6	1231.8	1209.2
7.5°	1493.7	1479.9	1459.9	1453.6	1412.2	1382.2	1378.4	1348.3	1291.9	1260.6	1229.3
10°	1570.1	1575.1	1542.6	1515.0	1479.9	1443.6	1442.3	1385.9	1353.3	1307.0	1266.9
12.5°	1637.8	1639.0	1611.5	1567.6	1523.8	1478.7	1484.9	1459.9	1404.7	1360.9	1320.8
15°	1690.4	1682.9	1652.8	1612.7	1566.4	1531.3	1527.5	1506.2	1459.9	1423.5	1357.1
17.5°	1705.5	1701.7	1671.6	1629.0	1583.9	1557.6	1567.6	1532.5	1513.7	1481.2	1417.3
20°	1676.6	1667.9	1662.9	1615.2	1582.7	1580.2	1571.4	1578.9	1547.6	1517.5	1471.1
22.5°	1624.0	1620.3	1617.7	1580.2	1565.1	1576.4	1591.4	1602.7	1597.7	1568.9	1516.2
25°	1570.1	1587.7	1571.4	1553.8	1575.1	1604.0	1600.2	1636.5	1636.5	1627.8	1583.9
27.5°	1607.7	1596.4	1583.9	1575.1	1582.7	1627.8	1625.3	1669.1	1685.4	1669.1	1619.0
30°	1701.7	1690.4	1654.1	1615.2	1605.2	1654.1	1666.6	1705.5	1713.0	1672.9	1630.3
32.5°	1878.4	1872.1	1814.5	1700.4	1639.0	1666.6	1672.9	1716.7	1710.5	1685.4	1667.9
35°	2140.3	2119.0	2038.8	1845.8	1710.5	1682.9	1666.6	1701.7	1725.5	1713.0	1696.7
37.5°	2427.2	2403.4	2304.4	2060.1	1839.5	1726.8	1714.2	1743.1	1770.6	1764.4	1730.5
40°	2701.7	2701.7	2612.7	2328.3	2031.3	1833.3	1835.8	1803.2	1828.3	1817.0	1823.3
42.5°	2972.3	2962.3	2926.0	2642.8	2236.8	2011.2	1971.1	1889.7	1934.8	1931.0	1939.8
45°	3246.8	3239.3	3229.2	2936.0	2531.3	2251.8	2230.5	2083.9	2125.2	2107.7	2145.3
47.5°	3466.1	3474.8	3474.8	3263.1	2845.8	2572.6	2541.3	2309.5	2388.4	2397.2	2405.9
50°	3652.8	3656.5	3652.8	3575.1	3196.6	2939.8	2875.9	2640.3	2719.2	2788.1	2868.3
52.5°	3910.9	3915.9	3898.4	3868.3	3672.8	3325.7	3254.3	2992.4	3154.0	3226.7	3370.8
55°	4229.2	4191.6	4159.0	4181.6	4130.2	3750.5	3676.6	3355.8	3598.9	3695.4	3983.6
57.5°	4288.1	4320.7	4403.4	4582.6	4656.5	4164.0	4121.4	3801.9	4101.4	4185.3	4666.5
60°	4496.1	4442.2	4645.2	5033.7	5116.4	4702.9	4659.0	4290.6	4601.4	4689.1	5296.8
62.5°	4632.7	4630.2	4930.9	5392.1	5580.0	5261.7	5172.8	4925.9	5141.4	5226.7	5983.5
65°	4592.6	4628.9	5162.8	5602.6	5967.2	5897.1	5845.7	5472.3	5756.7	5749.2	6430.9
67.5°	4226.7	4329.4	5016.1	5754.2	6543.7	6671.5	6655.2	6240.4	6256.7	6097.6	6630.1
70°	3719.2	3684.1	4395.9	5596.3	6831.9	7590.0	7586.2	6811.8	6706.6	6174.0	6058.7
72°	2857.1	2818.2	3403.4	4805.6	6680.2	7957.2	8069.9	7207.8	6701.6	5857.0	5004.9
72.5°	2593.9	2560.1	3142.8	4523.7	6512.3	8052.4	7999.8	7222.8	6648.9	5707.8	4675.3
75°	1194.2	1155.4	1570.1	2769.3	5080.0	7135.1	7314.3	6759.2	5806.8	4543.7	2800.7
77.5°	355.9	344.6	505.0	1117.8	2952.3	5256.7	5325.7	5100.1	4053.8	2488.6	1038.8
80°	198.0	199.2	260.6	418.5	1298.2	3038.8	3286.9	3150.3	1988.7	822.0	345.9
82.5°	110.3	116.5	162.9	248.1	596.5	1394.7	1501.2	1447.3	719.3	386.0	189.2
85°	57.6	60.1	85.2	132.8	338.3	441.1	453.6	486.2	373.4	263.1	101.5
87.5°	22.6	22.6	31.3	55.1	125.3	136.6	122.8	149.1	214.3	170.4	50.1
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°	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1215.5	1205.5	1204.2	1187.9	1192.9	1179.2	1180.4	1177.9	1179.2	1176.7	1170.4
5°	1209.2	1201.7	1180.4	1194.2	1181.7	1199.2	1213.0	1208.0	1211.7	1210.5	1211.7
7.5°	1218.0	1208.0	1205.5	1198.0	1209.2	1216.8	1228.0	1259.4	1256.9	1260.6	1268.1
10°	1244.3	1233.0	1225.5	1236.8	1230.5	1254.3	1266.9	1283.2	1312.0	1313.2	1298.2
12.5°	1295.7	1288.2	1273.1	1275.7	1297.0	1304.5	1312.0	1322.0	1340.8	1337.1	1350.8
15°	1354.6	1338.3	1329.5	1327.0	1332.0	1340.8	1339.6	1349.6	1359.6	1368.4	1364.6
17.5°	1397.2	1375.9	1378.4	1390.9	1389.7	1387.2	1370.9	1365.9	1370.9	1375.9	1373.4
20°	1441.1	1443.6	1424.8	1413.5	1408.5	1383.4	1370.9	1355.8	1340.8	1348.3	1359.6
22.5°	1496.2	1484.9	1457.3	1423.5	1398.5	1383.4	1344.6	1318.3	1318.3	1325.8	1322.0
25°	1558.9	1535.0	1487.4	1426.0	1394.7	1330.8	1303.2	1299.5	1289.4	1300.7	1305.7
27.5°	1607.7	1586.4	1521.3	1417.3	1330.8	1279.4	1263.1	1258.1	1274.4	1275.7	1295.7
30°	1627.8	1621.5	1526.3	1394.7	1265.6	1182.9	1172.9	1195.5	1213.0	1239.3	1240.6
32.5°	1654.1	1656.6	1533.8	1342.1	1180.4	1097.7	1082.7	1110.2	1160.4	1181.7	1198.0
35°	1697.9	1710.5	1527.5	1276.9	1090.2	1011.2	1008.7	1016.3	1065.1	1102.7	1124.0
37.5°	1774.4	1771.9	1526.3	1199.2	1018.8	936.1	916.0	918.5	951.1	982.4	978.7
40°	1877.1	1867.1	1522.5	1097.7	926.0	872.2	838.3	825.8	823.3	814.5	817.0
42.5°	2017.5	1997.4	1521.3	995.0	842.1	784.4	760.6	728.0	704.2	659.1	661.6
45°	2213.0	2177.9	1488.7	898.5	759.4	711.8	675.4	651.6	600.2	543.8	543.8
47.5°	2515.0	2400.9	1489.9	792.0	679.2	640.3	615.3	573.9	518.8	473.7	468.7
50°	2959.8	2699.2	1447.3	708.0	614.0	587.7	561.4	513.8	461.1	429.8	433.6
52.5°	3533.7	3144.0	1446.1	632.8	562.6	543.8	515.0	472.4	433.6	413.5	406.0
55°	4217.9	3733.0	1491.2	571.4	510.0	500.0	487.5	452.4	414.8	397.2	396.0
57.5°	4918.4	4308.1	1563.9	527.6	464.9	472.4	463.6	436.1	406.0	386.0	383.4
60°	5541.2	4764.3	1417.3	474.9	424.8	441.1	453.6	429.8	413.5	412.3	403.5
62.5°	6011.1	4959.8	1077.7	434.8	403.5	433.6	467.4	482.4	474.9	484.9	486.2
65°	6182.8	4842.0	741.8	413.5	387.2	451.1	526.3	521.3	477.4	458.6	468.7
67.5°	5942.2	4364.5	550.1	388.5	375.9	487.5	560.1	497.5	431.1	428.6	421.0
70°	5110.1	3699.1	448.6	362.1	357.1	467.4	545.1	461.1	406.0	389.7	382.2
72°	4071.3	2880.9	393.5	343.3	327.1	417.3	510.0	432.3	384.7	364.7	355.9
72.5°	3716.7	2670.3	386.0	334.6	320.8	406.0	492.5	423.5	379.7	362.1	348.4
75°	2038.8	1367.1	339.6	307.0	270.7	350.9	456.1	397.2	358.4	333.3	330.8
77.5°	758.1	530.1	293.2	271.9	234.3	303.2	414.8	377.2	325.8	294.5	288.2
80°	290.7	279.4	239.3	229.3	196.7	265.7	382.2	338.3	276.9	245.6	235.6
82.5°	176.7	162.9	181.7	179.2	150.4	241.8	359.6	317.0	245.6	199.2	193.0
85°	96.5	96.5	126.6	121.6	105.3	193.0	271.9	210.5	155.4	127.8	130.3
87.5°	42.6	50.1	67.7	63.9	57.6	109.0	132.8	111.5	77.7	52.6	56.4
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)