

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: P478429

Luminaire Tested: **IFLD-S-SA3A-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478429  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

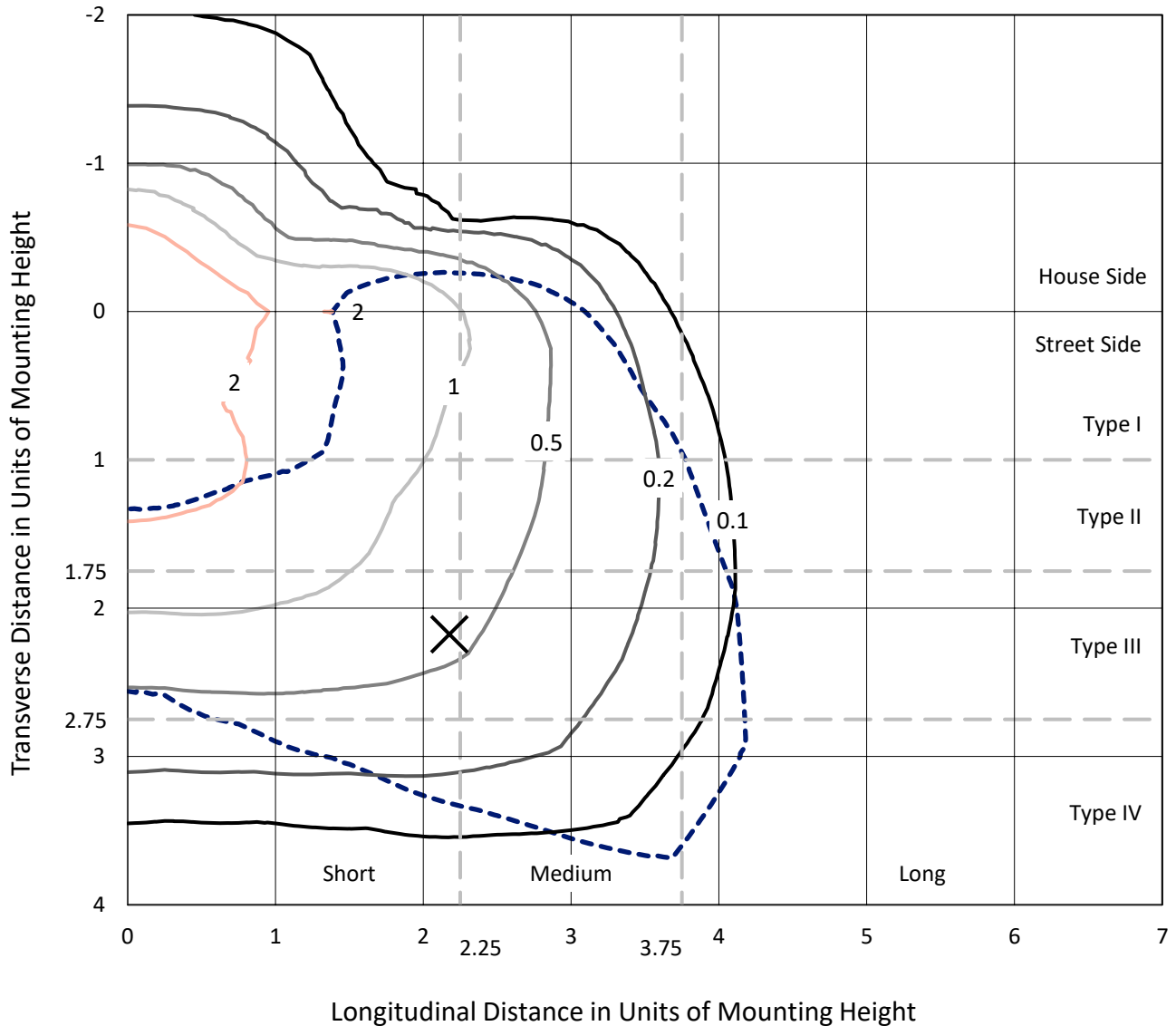
Lumens per Lamp: N/A  
Luminaire Lumens: 11630.3 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

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

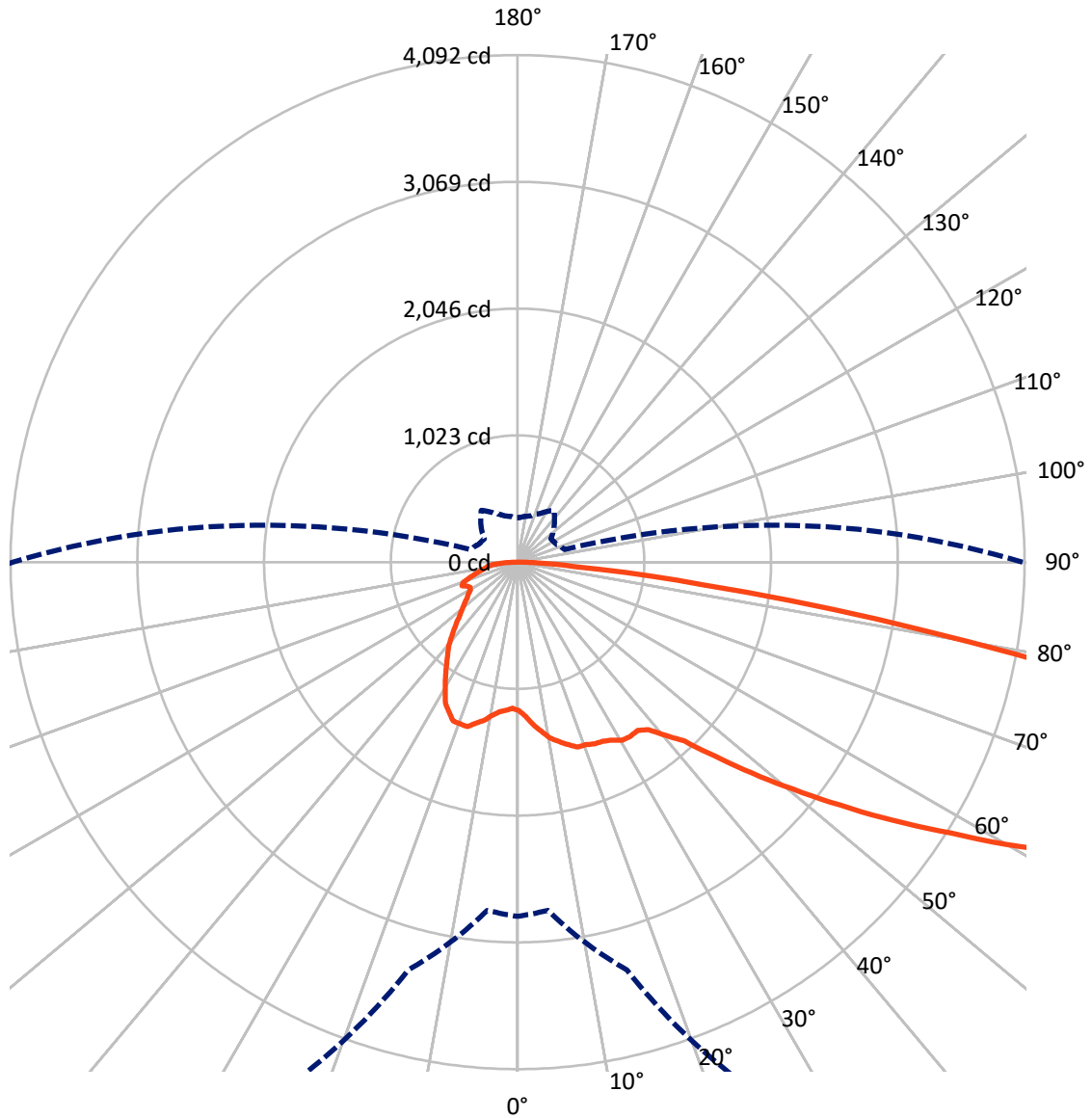
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 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	2589.0	0.0	2589.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9041.3	0.0	9041.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	11630.3	0.0	11630.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	1.1
10°-20°	407.8	3.5
20°-30°	688.6	5.9
30°-40°	952.9	8.2
40°-50°	1363.0	11.7
50°-60°	2198.4	18.9
60°-70°	3242.4	27.9
70°-80°	2354.5	20.2
80°-90°	300.1	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°	11630.3	100.0
0°-180°	11630.3	100.0

**Coefficient of Utilization**



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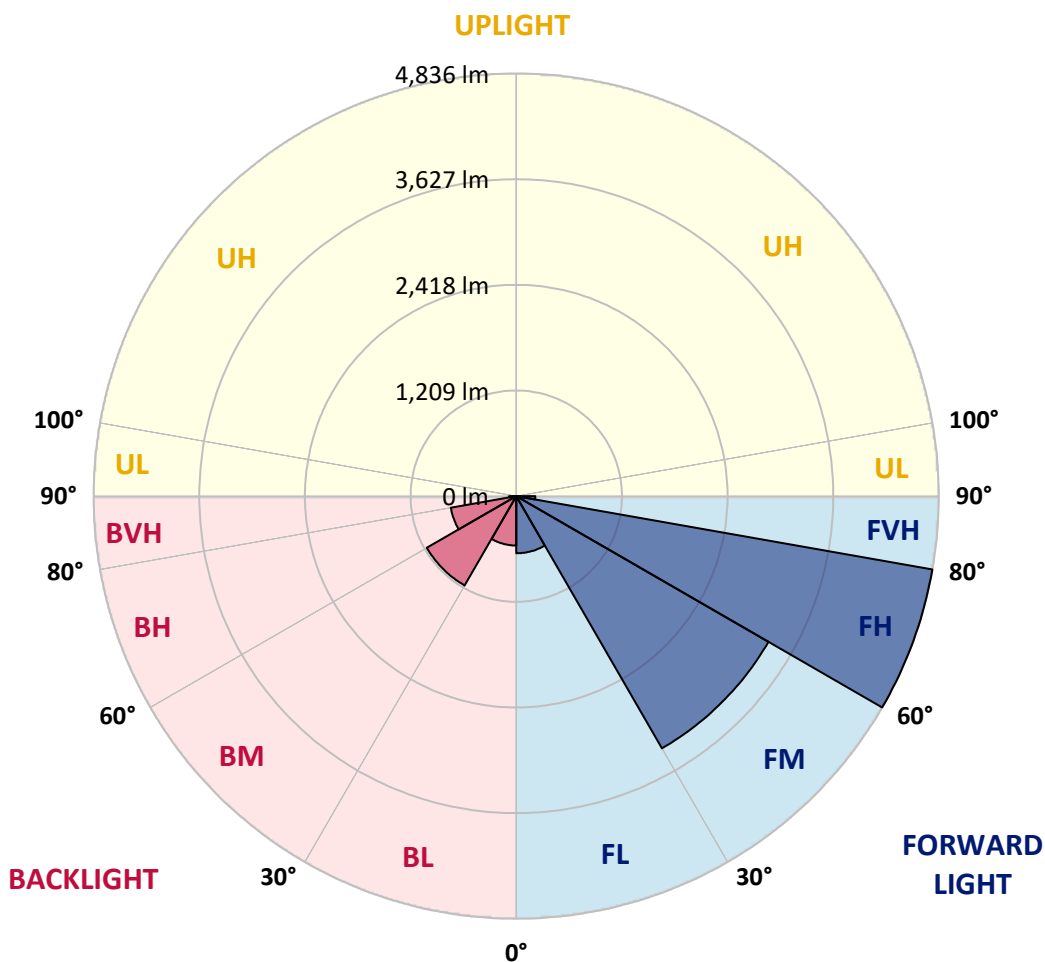
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.6	5.6			
FM (30°-60°)	3332.8	28.7			
FH (60°-80°)	4836.4	41.6			G2/5000
FVH (80°-90°)	218.5	1.9			G2/225
BL (0°-30°)	565.3	4.9	B2/1000		
BM (30°-60°)	1181.5	10.2	B2/2500		
BH (60°-80°)	760.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	81.7	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°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7
2.5°	1261.7	1269.2	1261.7	1260.4	1247.9	1239.1	1246.6	1235.3	1222.8	1217.8	1206.5
5°	1377.1	1378.3	1364.5	1365.8	1339.4	1311.8	1316.9	1283.0	1246.6	1232.8	1210.3
7.5°	1494.9	1481.1	1461.1	1454.8	1413.4	1383.3	1379.6	1349.5	1293.0	1261.7	1230.3
10°	1571.4	1576.5	1543.9	1516.3	1481.1	1444.8	1443.5	1387.1	1354.5	1308.1	1267.9
12.5°	1639.2	1640.4	1612.8	1568.9	1525.0	1479.9	1486.2	1461.1	1405.9	1362.0	1321.9
15°	1691.8	1684.3	1654.2	1614.1	1567.7	1532.6	1528.8	1507.5	1461.1	1424.7	1358.2
17.5°	1706.9	1703.1	1673.0	1630.4	1585.2	1558.9	1568.9	1533.8	1515.0	1482.4	1418.4
20°	1678.0	1669.3	1664.3	1616.6	1584.0	1581.5	1572.7	1580.2	1548.9	1518.8	1472.4
22.5°	1625.4	1621.6	1619.1	1581.5	1566.4	1577.7	1592.8	1604.1	1599.0	1570.2	1517.5
25°	1571.4	1589.0	1572.7	1555.1	1576.5	1605.3	1601.5	1637.9	1637.9	1629.1	1585.2
27.5°	1609.1	1597.8	1585.2	1576.5	1584.0	1629.1	1626.6	1670.5	1686.8	1670.5	1620.4
30°	1703.1	1691.8	1655.5	1616.6	1606.6	1655.5	1668.0	1706.9	1714.4	1674.3	1631.6
32.5°	1880.0	1873.7	1816.0	1701.9	1640.4	1668.0	1674.3	1718.2	1711.9	1686.8	1669.3
35°	2142.1	2120.8	2040.5	1847.4	1711.9	1684.3	1668.0	1703.1	1727.0	1714.4	1698.1
37.5°	2429.3	2405.5	2306.4	2061.8	1841.1	1728.2	1715.7	1744.5	1772.1	1765.8	1732.0
40°	2703.9	2703.9	2614.9	2330.2	2033.0	1834.8	1837.3	1804.7	1829.8	1818.5	1824.8
42.5°	2974.8	2964.8	2928.4	2645.0	2238.7	2012.9	1972.8	1891.3	1936.4	1932.6	1941.4
45°	3249.5	3242.0	3231.9	2938.5	2533.4	2253.7	2232.4	2085.6	2127.0	2109.5	2147.1
47.5°	3469.0	3477.7	3477.7	3265.8	2848.2	2574.8	2543.4	2311.4	2390.4	2399.2	2408.0
50°	3655.8	3659.6	3655.8	3578.1	3199.3	2942.2	2878.3	2642.5	2721.5	2790.5	2870.7
52.5°	3914.2	3919.2	3901.6	3871.5	3675.9	3328.5	3257.0	2994.9	3156.7	3229.4	3373.7
55°	4232.7	4195.1	4162.5	4185.1	4133.7	3753.7	3679.7	3358.6	3601.9	3698.5	3986.9
57.5°	4291.7	4324.3	4407.1	4586.4	4660.4	4167.5	4124.9	3805.1	4104.8	4188.8	4670.4
60°	4499.9	4445.9	4649.1	5037.9	5120.7	4706.8	4662.9	4294.2	4605.2	4693.0	5301.3
62.5°	4636.6	4634.1	4935.1	5396.6	5584.7	5266.2	5177.1	4930.0	5145.8	5231.0	5988.5
65°	4596.4	4632.8	5167.1	5607.3	5972.2	5902.0	5850.6	5476.9	5761.5	5754.0	6436.3
67.5°	4230.2	4333.1	5020.3	5759.0	6549.1	6677.1	6660.8	6245.6	6261.9	6102.7	6635.7
70°	3722.3	3687.2	4399.5	5601.0	6837.6	7596.4	7592.6	6817.5	6712.2	6179.2	6063.8
72°	2859.5	2820.6	3406.3	4809.6	6685.9	7963.8	8076.7	7213.8	6707.2	5861.9	5009.1
72.5°	2596.1	2562.2	3145.4	4527.5	6517.8	8059.1	8006.5	7228.9	6654.5	5712.6	4679.2
75°	1195.2	1156.3	1571.4	2771.7	5084.3	7141.1	7320.4	6764.9	5811.7	4547.5	2803.0
77.5°	356.2	344.9	505.4	1118.7	2954.8	5261.1	5330.1	5104.4	4057.2	2490.7	1039.7
80°	198.2	199.4	260.9	418.9	1299.3	3041.3	3289.6	3152.9	1990.3	822.7	346.1
82.5°	110.4	116.6	163.0	248.3	597.0	1395.9	1502.5	1448.5	719.9	386.3	189.4
85°	57.7	60.2	85.3	132.9	338.6	441.5	454.0	486.6	373.7	263.4	101.6
87.5°	22.6	22.6	31.4	55.2	125.4	136.7	122.9	149.2	214.5	170.6	50.2
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°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7
2.5°	1216.5	1206.5	1205.2	1188.9	1193.9	1180.2	1181.4	1178.9	1180.2	1177.6	1171.4
5°	1210.3	1202.7	1181.4	1195.2	1182.7	1200.2	1214.0	1209.0	1212.8	1211.5	1212.8
7.5°	1219.0	1209.0	1206.5	1199.0	1210.3	1217.8	1229.1	1260.4	1257.9	1261.7	1269.2
10°	1245.4	1234.1	1226.6	1237.8	1231.6	1255.4	1267.9	1284.2	1313.1	1314.3	1299.3
12.5°	1296.8	1289.3	1274.2	1276.7	1298.0	1305.6	1313.1	1323.1	1341.9	1338.2	1352.0
15°	1355.7	1339.4	1330.6	1328.1	1333.2	1341.9	1340.7	1350.7	1360.7	1369.5	1365.8
17.5°	1398.4	1377.1	1379.6	1392.1	1390.8	1388.3	1372.0	1367.0	1372.0	1377.1	1374.5
20°	1442.3	1444.8	1426.0	1414.7	1409.7	1384.6	1372.0	1357.0	1341.9	1349.5	1360.7
22.5°	1497.5	1486.2	1458.6	1424.7	1399.6	1384.6	1345.7	1319.4	1319.4	1326.9	1323.1
25°	1560.2	1536.3	1488.7	1427.2	1395.9	1331.9	1304.3	1300.5	1290.5	1301.8	1306.8
27.5°	1609.1	1587.7	1522.5	1418.4	1331.9	1280.5	1264.2	1259.2	1275.5	1276.7	1296.8
30°	1629.1	1622.9	1527.5	1395.9	1266.7	1183.9	1173.9	1196.5	1214.0	1240.4	1241.6
32.5°	1655.5	1658.0	1535.1	1343.2	1181.4	1098.6	1083.6	1111.2	1161.3	1182.7	1199.0
35°	1699.4	1711.9	1528.8	1278.0	1091.1	1012.1	1009.6	1017.1	1066.0	1103.6	1125.0
37.5°	1775.9	1773.4	1527.5	1200.2	1019.6	936.8	916.8	919.3	951.9	983.3	979.5
40°	1878.7	1868.7	1523.8	1098.6	926.8	872.9	839.0	826.5	824.0	815.2	817.7
42.5°	2019.2	1999.1	1522.5	995.8	842.8	785.1	761.3	728.7	704.8	659.7	662.2
45°	2214.8	2179.7	1489.9	899.2	760.0	712.4	676.0	652.2	600.7	544.3	544.3
47.5°	2517.1	2402.9	1491.2	792.6	679.7	640.9	615.8	574.4	519.2	474.1	469.1
50°	2962.3	2701.4	1448.5	708.6	614.5	588.2	561.9	514.2	461.5	430.2	433.9
52.5°	3536.7	3146.7	1447.3	633.3	563.1	544.3	515.5	472.8	433.9	413.9	406.3
55°	4221.5	3736.1	1492.4	571.9	510.4	500.4	487.9	452.7	415.1	397.6	396.3
57.5°	4922.5	4311.8	1565.2	528.0	465.3	472.8	464.0	436.4	406.3	386.3	383.8
60°	5545.8	4768.3	1418.4	475.3	425.2	441.5	454.0	430.2	413.9	412.6	403.8
62.5°	6016.1	4963.9	1078.6	435.2	403.8	433.9	467.8	482.8	475.3	485.4	486.6
65°	6188.0	4846.0	742.5	413.9	387.5	451.5	526.7	521.7	477.8	459.0	469.1
67.5°	5947.2	4368.2	550.6	388.8	376.2	487.9	560.6	497.9	431.4	428.9	421.4
70°	5114.4	3702.2	449.0	362.4	357.4	467.8	545.6	461.5	406.3	390.0	382.5
72°	4074.7	2883.3	393.8	343.6	327.3	417.6	510.4	432.7	385.0	365.0	356.2
72.5°	3719.8	2672.6	386.3	334.9	321.1	406.3	492.9	423.9	380.0	362.4	348.7
75°	2040.5	1368.3	339.9	307.3	270.9	351.2	456.5	397.6	358.7	333.6	331.1
77.5°	758.8	530.5	293.5	272.1	234.5	303.5	415.1	377.5	326.1	294.7	288.5
80°	291.0	279.7	239.5	229.5	196.9	265.9	382.5	338.6	277.2	245.8	235.8
82.5°	176.8	163.0	181.9	179.3	150.5	242.1	359.9	317.3	245.8	199.4	193.1
85°	96.6	96.6	126.7	121.7	105.3	193.1	272.1	210.7	155.5	127.9	130.4
87.5°	42.6	50.2	67.7	64.0	57.7	109.1	132.9	111.6	77.8	52.7	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)