

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: P478273

Luminaire Tested: **IFLD-S-SA3A-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478273  
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-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

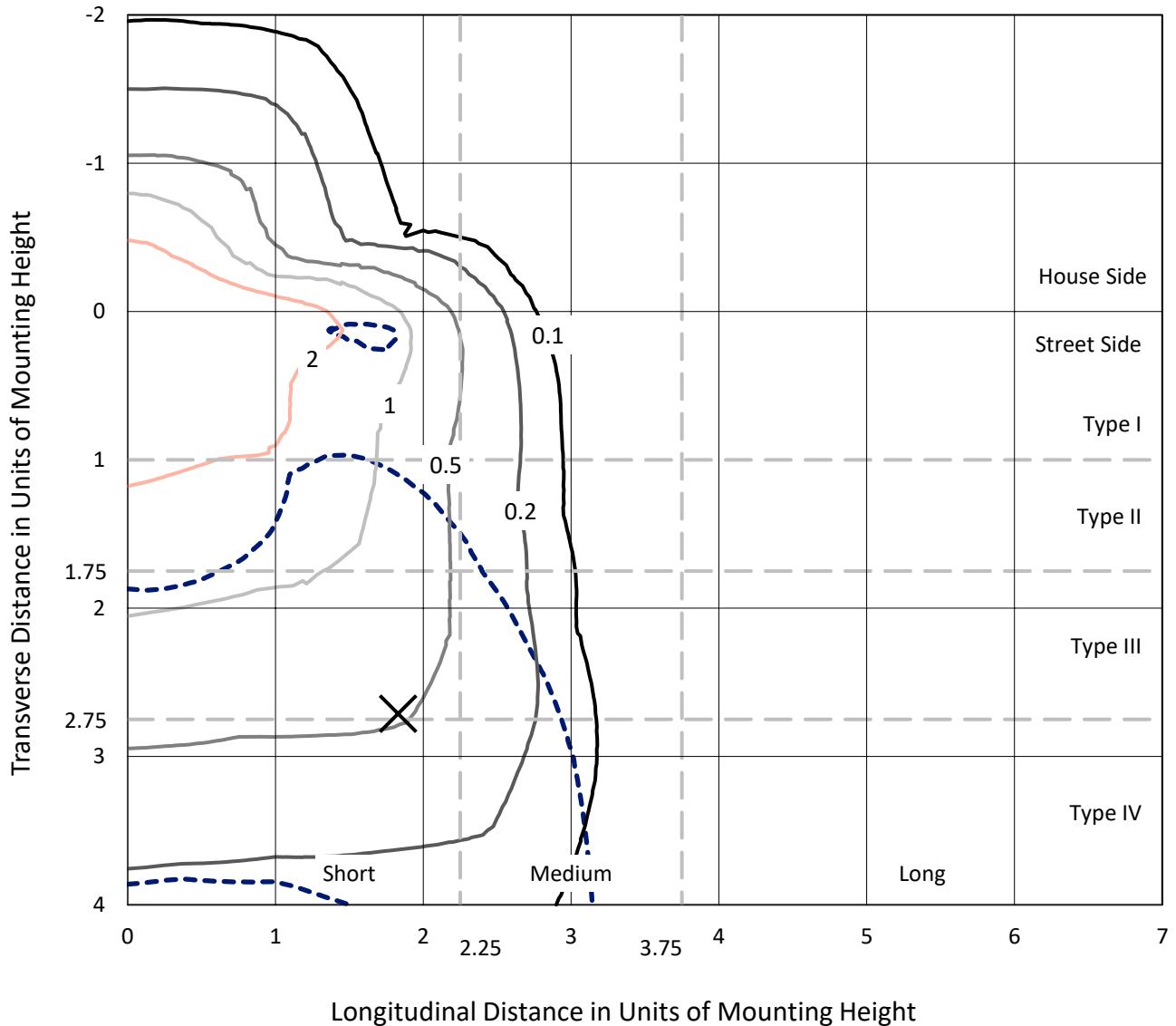
Lumens per Lamp: N/A  
Luminaire Lumens: 10361.6 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P478273  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

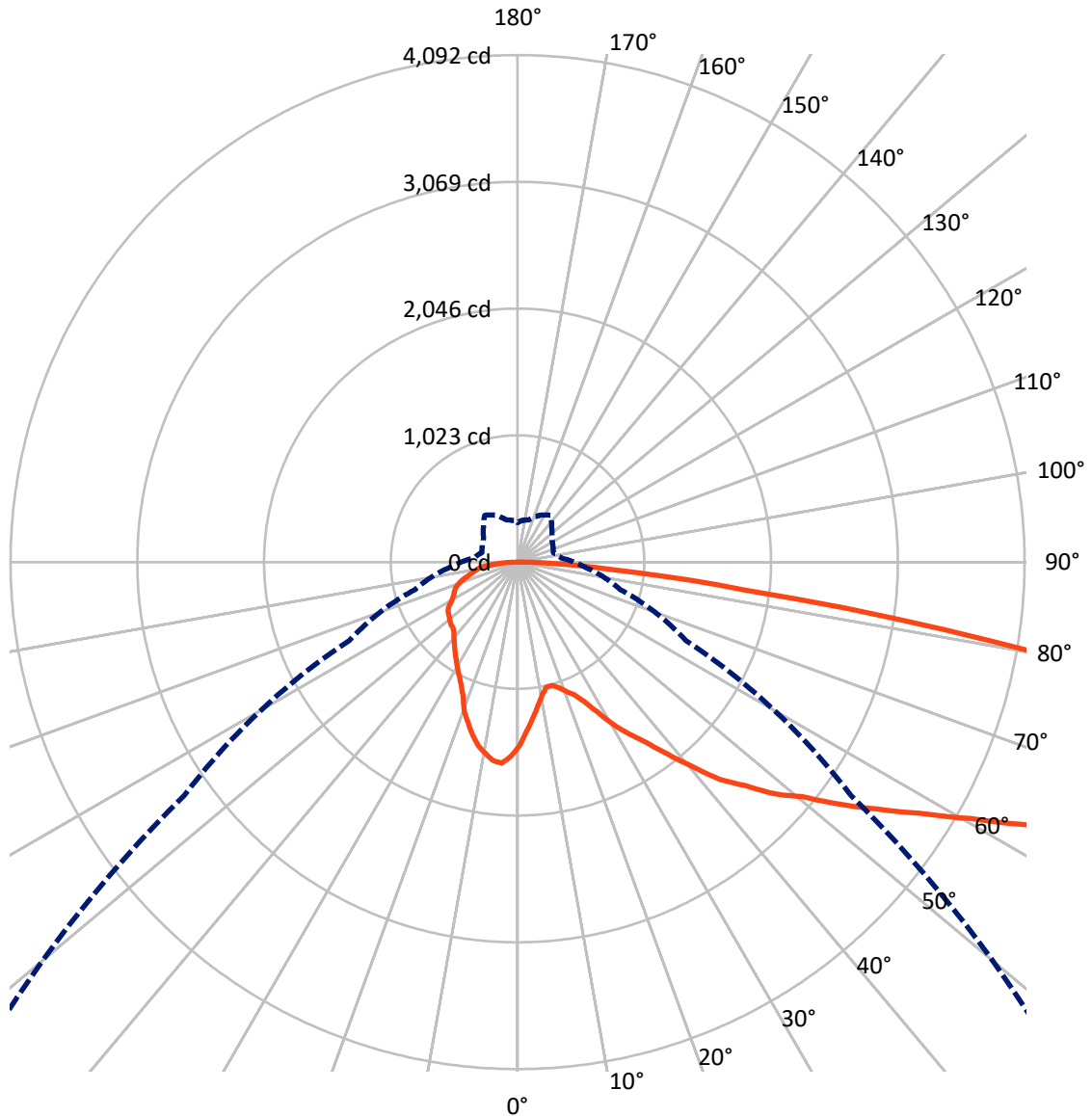
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478273  
CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478273  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2238.2	0.0	2238.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	8123.4	0.0	8123.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	10361.6	0.0	10361.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	1.3
10°-20°	383.7	3.7
20°-30°	631.5	6.1
30°-40°	944.4	9.1
40°-50°	1400.1	13.5
50°-60°	2017.6	19.5
60°-70°	2574.8	24.8
70°-80°	2003.6	19.3
80°-90°	268.8	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°	10361.6	100.0
0°-180°	10361.6	100.0

**Coefficient of Utilization**



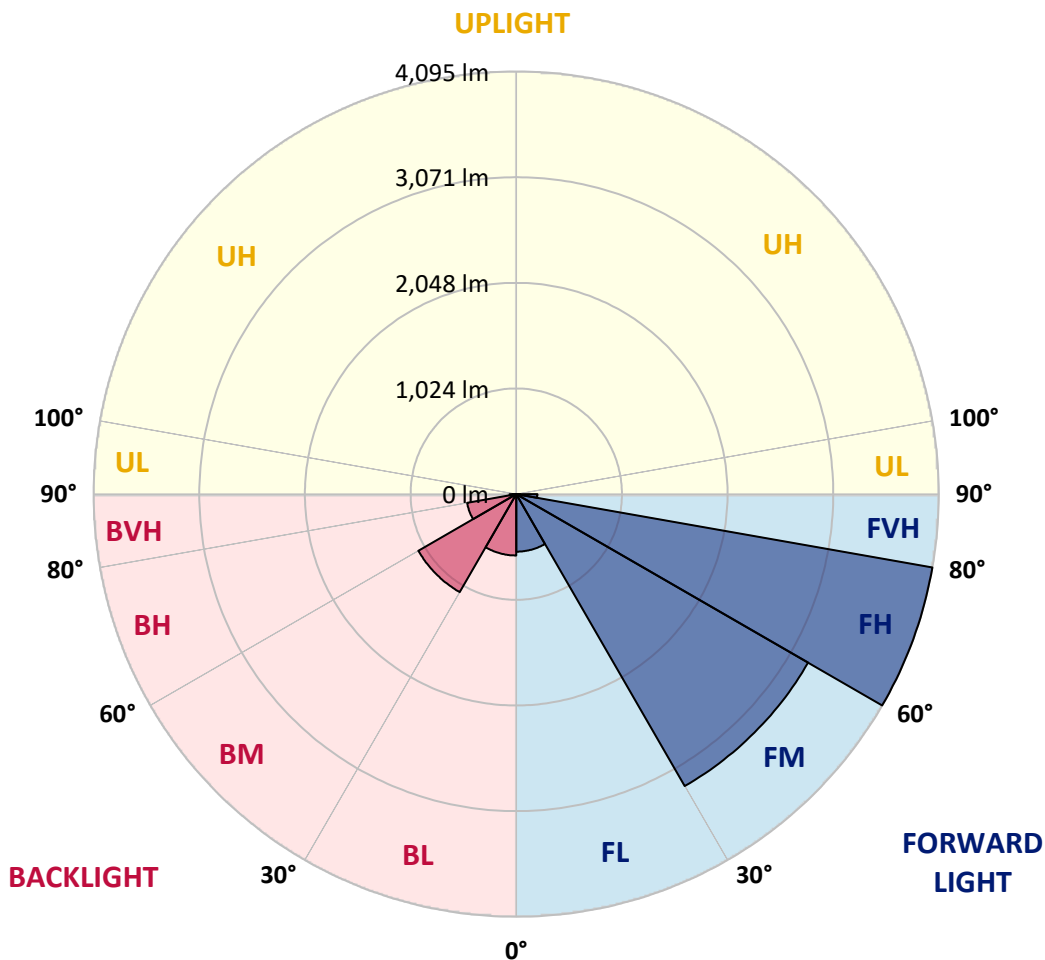
REPORT NUMBER: P478273  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.6	5.4			
FM (30°-60°)	3266.0	31.5			
FH (60°-80°)	4095.1	39.5			G2/5000
FVH (80°-90°)	204.6	2.0			G2/225
BL (0°-30°)	594.7	5.7	B2/1000		
BM (30°-60°)	1096.1	10.6	B2/2500		
BH (60°-80°)	483.3	4.7	B1/500		G1/500
BVH (80°-90°)	64.2	0.6			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





REPORT NUMBER: P478273  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1331.0	1335.4	1349.7	1352.9	1368.3	1359.5	1378.1	1411.0	1429.6	1457.0	1489.9
5°	1225.9	1207.2	1216.0	1250.0	1267.5	1271.9	1291.6	1347.5	1382.5	1423.1	1484.4
7.5°	1102.1	1098.8	1116.3	1138.2	1173.3	1176.6	1220.4	1269.7	1342.0	1431.8	1504.1
10°	1017.7	1032.0	1041.8	1064.8	1088.9	1088.9	1144.8	1230.2	1312.4	1399.0	1508.5
12.5°	1013.3	1004.6	1006.8	1018.8	1036.3	1058.3	1110.8	1187.5	1291.6	1392.4	1527.1
15°	1027.6	1030.9	1011.1	1026.5	1033.1	1040.7	1098.8	1185.3	1278.4	1415.4	1558.9
17.5°	1103.2	1084.5	1053.9	1039.6	1062.6	1062.6	1102.1	1170.0	1280.6	1427.4	1604.9
20°	1162.3	1162.3	1111.9	1096.6	1113.0	1109.7	1137.1	1187.5	1291.6	1451.5	1656.4
22.5°	1262.0	1276.3	1193.0	1161.2	1160.1	1168.9	1193.0	1235.7	1322.3	1485.5	1705.7
25°	1405.5	1408.8	1312.4	1279.5	1244.5	1258.7	1263.1	1305.8	1349.7	1524.9	1761.6
27.5°	1565.5	1563.3	1474.5	1392.4	1369.4	1372.7	1348.6	1377.0	1390.2	1537.0	1841.5
30°	1742.9	1723.2	1656.4	1540.3	1521.6	1500.8	1448.3	1447.2	1474.5	1604.9	1952.2
32.5°	1859.1	1833.9	1787.9	1704.6	1653.1	1655.3	1572.0	1570.9	1546.8	1679.4	2048.6
35°	1973.0	1934.7	1922.6	1837.2	1785.7	1791.1	1724.3	1715.6	1671.7	1792.2	2207.4
37.5°	2109.9	2076.0	2094.6	2030.0	1966.4	1940.1	1909.5	1898.5	1841.5	1951.1	2424.3
40°	2261.1	2250.2	2238.1	2206.3	2168.0	2170.2	2137.3	2126.4	2042.0	2142.8	2632.5
42.5°	2464.9	2423.2	2360.8	2381.6	2401.3	2422.1	2411.2	2382.7	2295.1	2337.8	2864.7
45°	2654.4	2599.6	2484.6	2491.2	2572.2	2588.7	2721.2	2717.9	2541.6	2585.4	3128.7
47.5°	2782.6	2757.4	2688.4	2680.7	2796.8	2795.7	3034.5	3034.5	2801.2	2831.9	3412.5
50°	2973.2	2907.5	2877.9	2916.2	2975.4	3015.9	3354.4	3375.2	3056.4	3089.3	3783.9
52.5°	3196.7	3114.5	3040.0	3138.6	3243.8	3270.1	3671.0	3662.3	3252.5	3388.4	4218.8
55°	3381.8	3340.2	3288.7	3345.7	3517.6	3550.5	3988.7	3907.6	3448.6	3636.0	4428.0
57.5°	3597.6	3622.8	3633.8	3619.5	3824.4	3875.9	4351.3	4119.1	3617.3	3802.5	4550.7
60°	3923.0	3938.3	3952.6	3986.5	4203.4	4275.7	4638.3	4384.2	3723.6	3898.9	4560.6
62.5°	4418.1	4359.0	4390.8	4508.0	4682.2	4764.3	5061.2	4570.4	3804.7	3956.9	4238.5
65°	4984.5	4904.6	4871.7	5022.9	5474.2	5408.5	5589.2	4709.6	3687.5	3740.0	3594.3
67.5°	5558.6	5567.3	5483.0	5786.4	6339.7	6339.7	6080.0	4776.4	3369.8	3031.2	2520.7
70°	6014.3	6041.7	6087.7	6676.0	7552.4	7684.9	6688.0	4502.5	2722.3	2017.9	1378.1
72.5°	6007.7	5925.6	6161.1	7244.5	8654.4	8543.8	6815.1	3560.4	1699.1	988.1	632.1
73°	5873.0	5804.0	6061.4	7239.1	8699.4	8595.3	6722.0	3282.1	1498.6	856.7	562.0
75°	4796.1	4671.2	5109.4	6556.6	8048.6	8128.6	5710.8	2140.6	821.6	528.0	395.5
77.5°	2186.6	2241.4	2812.1	4398.4	6202.7	6296.9	3754.3	925.7	450.3	370.3	291.4
80°	702.2	737.3	1094.4	2186.6	3887.9	4057.7	1735.3	420.7	321.0	283.7	218.0
82.5°	268.4	267.3	459.0	909.3	1842.6	1951.1	634.3	256.3	238.8	209.2	154.5
85°	94.2	98.6	173.1	359.3	725.2	759.2	220.2	142.4	165.4	140.2	88.7
87.5°	32.9	34.0	61.3	130.4	249.8	264.0	61.3	57.0	82.2	81.1	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478273  
 CATALOG NUMBER: IFLD-S-SA3A-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1500.8	1510.7	1514.0	1553.4	1553.4	1553.4	1568.8	1568.8	1564.4	1553.4	1579.7
5°	1507.4	1524.9	1558.9	1592.9	1601.6	1609.3	1630.1	1612.6	1619.1	1608.2	1618.1
7.5°	1526.0	1550.1	1613.7	1634.5	1620.2	1636.7	1614.8	1602.7	1590.7	1595.0	1579.7
10°	1557.8	1588.5	1618.1	1656.4	1629.0	1612.6	1567.7	1556.7	1518.4	1505.2	1517.3
12.5°	1597.2	1634.5	1684.9	1670.6	1618.1	1570.9	1522.7	1476.7	1453.7	1420.9	1429.6
15°	1636.7	1679.4	1687.1	1663.0	1597.2	1538.1	1450.4	1385.8	1362.8	1333.2	1348.6
17.5°	1679.4	1719.9	1706.8	1644.3	1555.6	1465.8	1366.1	1302.5	1254.3	1235.7	1235.7
20°	1742.9	1762.7	1741.8	1613.7	1505.2	1386.9	1290.5	1218.2	1170.0	1162.3	1150.3
22.5°	1792.2	1824.0	1730.9	1568.8	1431.8	1283.9	1173.3	1145.9	1131.7	1119.6	1104.3
25°	1855.8	1854.7	1711.2	1527.1	1305.8	1161.2	1094.4	1092.2	1085.6	1081.3	1102.1
27.5°	1916.0	1890.8	1688.2	1424.1	1175.5	1068.1	1032.0	1056.1	1065.9	1059.3	1068.1
30°	2011.3	1969.7	1655.3	1314.6	1060.4	973.9	980.5	1013.3	1029.8	1039.6	1026.5
32.5°	2112.1	2048.6	1587.4	1200.7	958.6	914.7	930.1	964.0	983.8	994.7	1006.8
35°	2257.8	2109.9	1518.4	1051.7	885.2	878.6	887.4	906.0	934.5	942.1	945.4
37.5°	2437.5	2203.0	1425.2	932.3	828.2	835.9	844.6	851.2	852.3	866.5	861.1
40°	2617.1	2281.9	1289.4	818.3	769.0	810.7	806.3	794.2	784.4	771.2	767.9
42.5°	2774.9	2350.9	1138.2	721.9	716.5	784.4	770.1	739.5	716.5	706.6	690.2
45°	2952.4	2448.4	985.9	661.7	675.9	752.6	748.2	701.1	671.5	636.5	632.1
47.5°	3182.4	2550.3	840.2	599.2	637.6	740.6	742.7	682.5	639.8	592.7	586.1
50°	3477.1	2697.1	729.6	572.9	614.6	723.0	726.3	657.3	601.4	553.2	548.8
52.5°	3759.8	2847.2	637.6	532.4	599.2	702.2	709.9	634.3	569.7	509.4	512.7
55°	3902.2	2792.4	558.7	502.8	564.2	668.3	696.7	617.9	521.5	479.8	478.7
57.5°	3933.9	2657.7	496.3	472.2	534.6	632.1	674.8	568.6	499.5	464.5	460.1
60°	3829.9	2422.1	447.0	439.3	497.4	594.9	624.4	542.3	477.6	449.2	442.6
62.5°	3573.5	2177.9	413.0	424.0	465.6	554.3	592.7	523.6	456.8	437.1	422.9
65°	2930.5	1791.1	385.6	394.4	432.7	514.9	572.9	502.8	438.2	419.6	418.5
67.5°	2030.0	1234.6	363.7	380.1	406.4	486.4	553.2	479.8	414.1	407.5	398.8
70°	1039.6	658.4	335.2	348.4	377.9	450.3	518.2	455.7	388.9	387.8	376.9
72.5°	526.9	385.6	302.4	322.1	342.9	403.1	474.4	424.0	357.1	345.1	327.6
73°	455.7	357.1	296.9	314.4	334.1	390.0	461.2	416.3	352.8	335.2	318.8
75°	331.9	281.5	266.2	283.7	299.1	351.7	417.4	381.2	324.3	305.6	290.3
77.5°	248.7	216.9	221.3	241.0	254.2	303.5	371.4	345.1	293.6	268.4	261.8
80°	182.9	165.4	182.9	201.6	211.4	267.3	338.5	299.1	247.6	219.1	213.6
82.5°	130.4	120.5	141.3	153.4	157.8	221.3	304.5	238.8	187.3	150.1	138.0
85°	74.5	73.4	95.3	94.2	97.5	129.3	200.5	158.8	120.5	92.0	89.8
87.5°	32.9	36.2	48.2	38.3	40.5	61.3	85.4	59.2	49.3	27.4	20.8
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)