

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: P478190

Luminaire Tested: **IFLD-S-SA2A-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478190
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

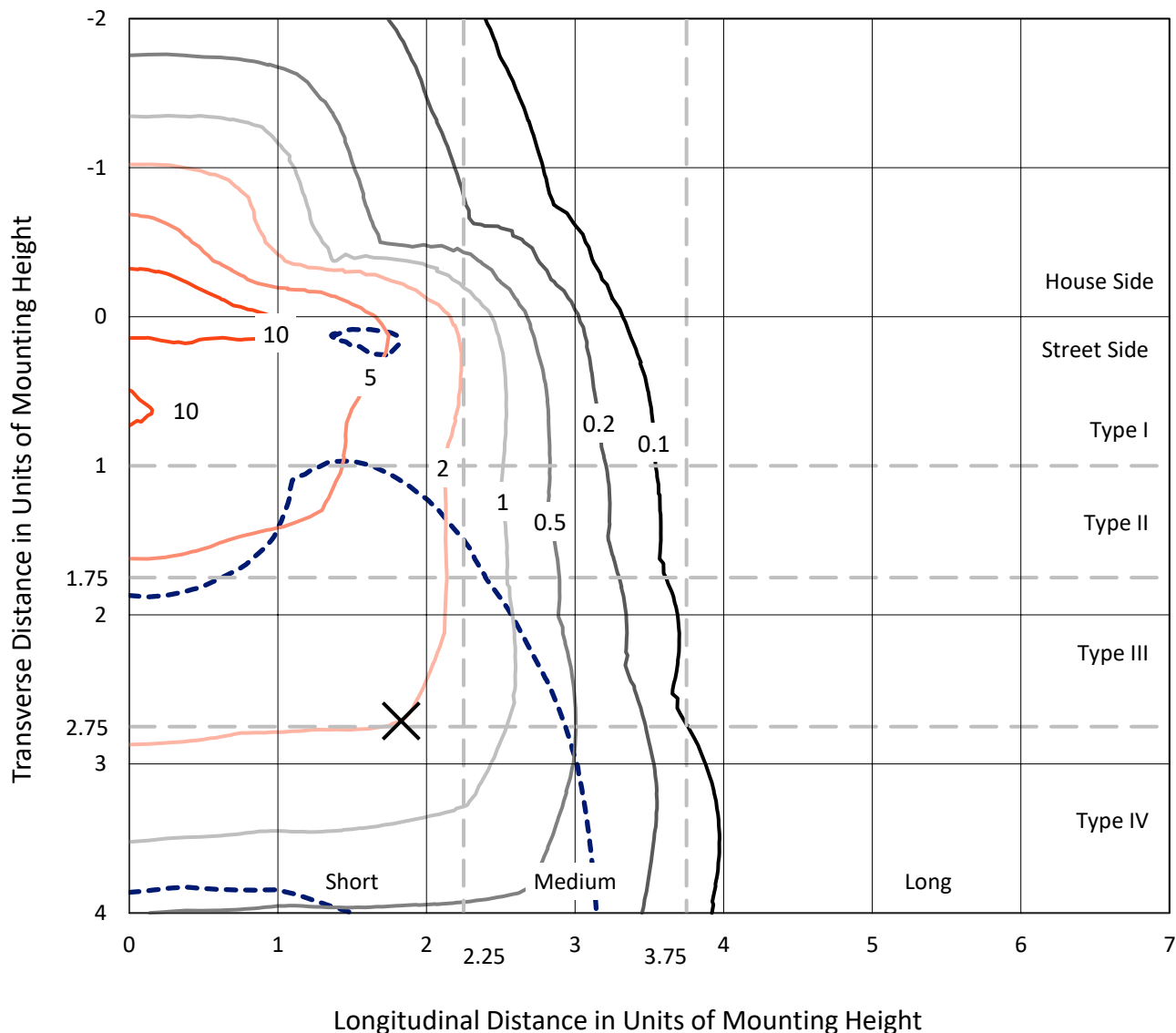
Lumens per Lamp: N/A
Luminaire Lumens: 9674.9 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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

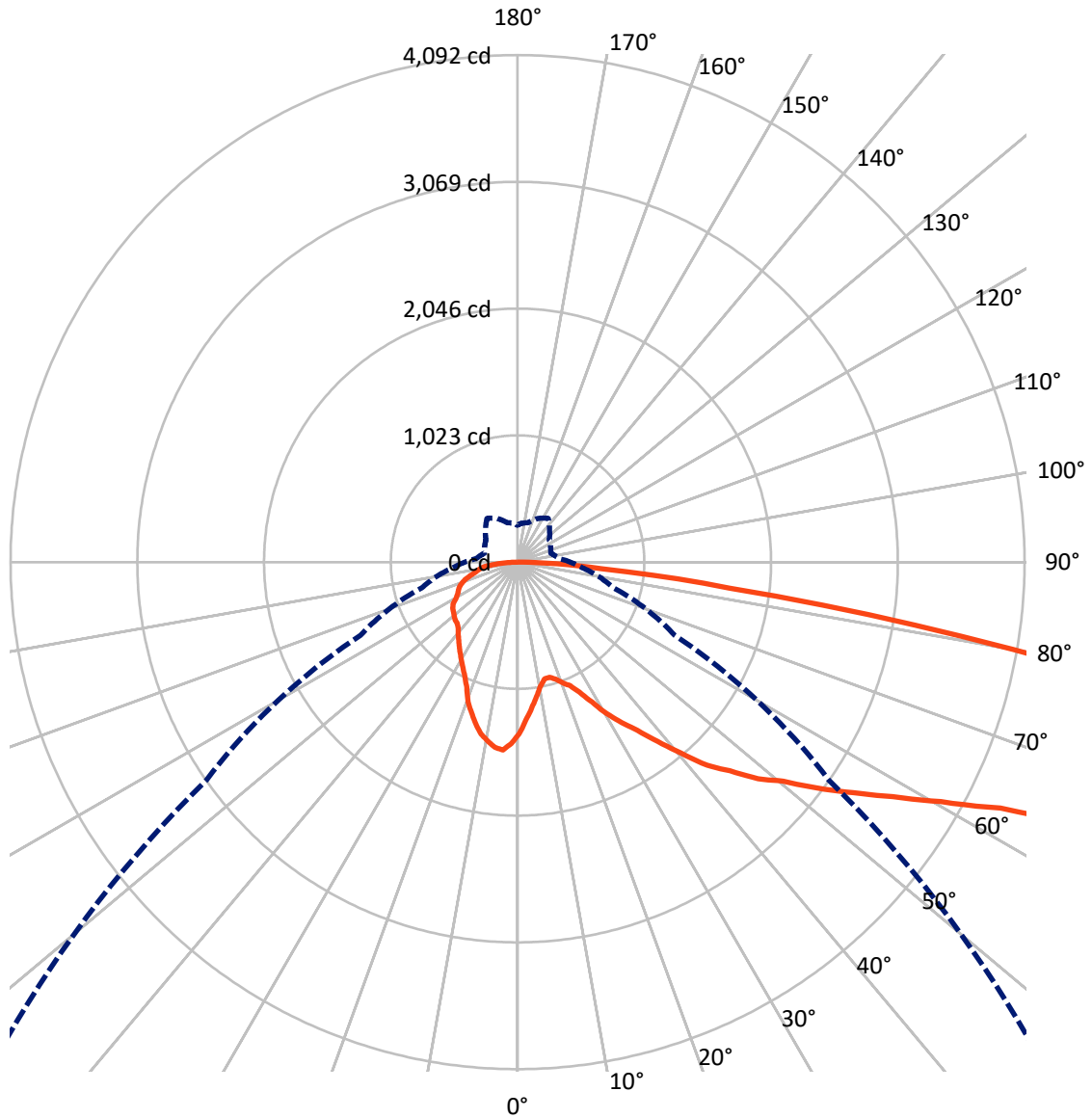
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.9	0.0	2089.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7585.0	0.0	7585.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	9674.9	0.0	9674.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.3
10°-20°	358.3	3.7
20°-30°	589.7	6.1
30°-40°	881.8	9.1
40°-50°	1307.3	13.5
50°-60°	1883.9	19.5
60°-70°	2404.1	24.8
70°-80°	1870.8	19.3
80°-90°	251.0	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°	9674.9	100.0
0°-180°	9674.9	100.0

Coefficient of Utilization



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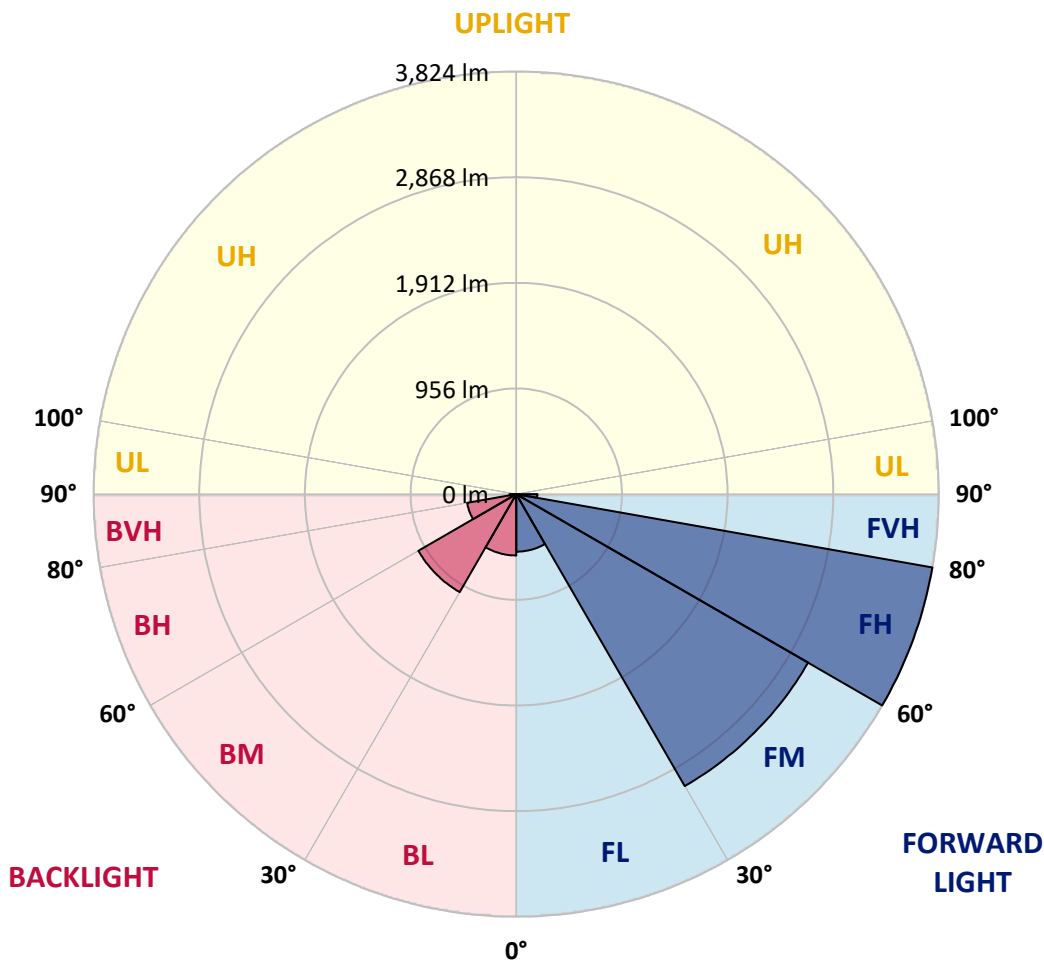
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.7	5.4			
FM (30°-60°)	3049.6	31.5			
FH (60°-80°)	3823.7	39.5			G2/5000
FVH (80°-90°)	191.0	2.0			G2/225
BL (0°-30°)	555.3	5.7	B2/1000		
BM (30°-60°)	1023.4	10.6	B2/2500		
BH (60°-80°)	451.3	4.7	B1/500		G1/500
BVH (80°-90°)	59.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1
2.5°	1242.8	1246.9	1260.2	1263.3	1277.6	1269.4	1286.8	1317.5	1334.9	1360.5	1391.1
5°	1144.6	1127.2	1135.4	1167.1	1183.5	1187.6	1206.0	1258.2	1290.9	1328.7	1386.0
7.5°	1029.0	1026.0	1042.3	1062.8	1095.5	1098.6	1139.5	1185.5	1253.1	1336.9	1404.4
10°	950.3	963.6	972.8	994.3	1016.8	1016.8	1068.9	1148.7	1225.4	1306.2	1408.5
12.5°	946.2	938.0	940.0	951.3	967.7	988.1	1037.2	1108.8	1206.0	1300.1	1425.9
15°	959.5	962.5	944.1	958.5	964.6	971.8	1026.0	1106.8	1193.7	1321.6	1455.6
17.5°	1030.1	1012.7	984.0	970.7	992.2	992.2	1029.0	1092.5	1195.8	1332.8	1498.5
20°	1085.3	1085.3	1038.2	1023.9	1039.3	1036.2	1061.8	1108.8	1206.0	1355.3	1546.6
22.5°	1178.4	1191.7	1113.9	1084.3	1083.3	1091.4	1113.9	1153.8	1234.6	1387.1	1592.7
25°	1312.4	1315.4	1225.4	1194.7	1162.0	1175.3	1179.4	1219.3	1260.2	1423.9	1644.8
27.5°	1461.7	1459.7	1376.8	1300.1	1278.6	1281.7	1259.2	1285.8	1298.1	1435.1	1719.5
30°	1627.4	1609.0	1546.6	1438.2	1420.8	1401.4	1352.3	1351.3	1376.8	1498.5	1822.8
32.5°	1735.9	1712.3	1669.4	1591.6	1543.6	1545.6	1467.9	1466.8	1444.3	1568.1	1912.8
35°	1842.2	1806.4	1795.2	1715.4	1667.3	1672.4	1610.0	1601.9	1560.9	1673.5	2061.1
37.5°	1970.1	1938.4	1955.8	1895.4	1836.1	1811.6	1782.9	1772.7	1719.5	1821.8	2263.7
40°	2111.3	2101.0	2089.8	2060.1	2024.3	2026.4	1995.7	1985.4	1906.7	2000.8	2458.0
42.5°	2301.5	2262.7	2204.3	2223.8	2242.2	2261.6	2251.4	2224.8	2143.0	2182.9	2674.9
45°	2478.5	2427.3	2319.9	2326.1	2401.8	2417.1	2540.9	2537.8	2373.1	2414.0	2921.4
47.5°	2598.2	2574.6	2510.2	2503.0	2611.5	2610.4	2833.4	2833.4	2615.6	2644.2	3186.3
50°	2776.2	2714.8	2687.2	2723.0	2778.2	2816.0	3132.1	3151.6	2853.9	2884.6	3533.1
52.5°	2984.8	2908.1	2838.5	2930.6	3028.8	3053.4	3427.7	3419.6	3037.0	3163.8	3939.2
55°	3157.7	3118.8	3070.7	3123.9	3284.5	3315.2	3724.4	3648.7	3220.1	3395.0	4134.6
57.5°	3359.2	3382.7	3393.0	3379.7	3570.9	3619.0	4063.0	3846.1	3377.6	3550.5	4249.1
60°	3663.0	3677.3	3690.6	3722.3	3924.9	3992.4	4331.0	4093.6	3476.8	3640.5	4258.3
62.5°	4125.4	4070.1	4099.8	4209.2	4371.9	4448.6	4725.8	4267.5	3552.5	3694.7	3957.6
65°	4654.2	4579.5	4548.8	4690.0	5111.4	5050.1	5218.8	4397.4	3443.1	3492.2	3356.1
67.5°	5190.2	5198.4	5119.6	5403.0	5919.5	5919.5	5677.1	4459.8	3146.4	2830.4	2353.7
70°	5615.7	5641.3	5684.3	6233.6	7051.9	7175.6	6244.8	4204.1	2541.9	1884.2	1286.8
72.5°	5609.6	5532.9	5752.8	6764.4	8080.9	7977.6	6363.5	3324.4	1586.5	922.7	590.2
73°	5483.8	5419.3	5659.7	6759.3	8122.8	8025.7	6276.5	3064.6	1399.3	799.9	524.7
75°	4478.3	4361.6	4770.8	6122.1	7515.2	7589.9	5332.4	1998.7	767.2	493.0	369.3
77.5°	2041.7	2092.9	2625.8	4106.9	5791.7	5879.6	3505.5	864.4	420.4	345.7	272.1
80°	655.7	688.4	1021.9	2041.7	3630.3	3788.8	1620.3	392.8	299.7	264.9	203.6
82.5°	250.6	249.6	428.6	849.0	1720.5	1821.8	592.3	239.4	223.0	195.4	144.2
85°	88.0	92.1	161.6	335.5	677.2	708.9	205.6	133.0	154.5	130.9	82.9
87.5°	30.7	31.7	57.3	121.7	233.2	246.5	57.3	53.2	76.7	75.7	41.9
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°	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1	1387.1
2.5°	1401.4	1410.6	1413.6	1450.5	1450.5	1450.5	1464.8	1464.8	1460.7	1450.5	1475.0
5°	1407.5	1423.9	1455.6	1487.3	1495.5	1502.6	1522.1	1505.7	1511.8	1501.6	1510.8
7.5°	1424.9	1447.4	1506.7	1526.2	1512.9	1528.2	1507.8	1496.5	1485.3	1489.3	1475.0
10°	1454.6	1483.2	1510.8	1546.6	1521.1	1505.7	1463.8	1453.5	1417.7	1405.5	1416.7
12.5°	1491.4	1526.2	1573.2	1559.9	1510.8	1466.8	1421.8	1378.9	1357.4	1326.7	1334.9
15°	1528.2	1568.1	1575.3	1552.8	1491.4	1436.2	1354.3	1294.0	1272.5	1244.9	1259.2
17.5°	1568.1	1606.0	1593.7	1535.4	1452.5	1368.6	1275.6	1216.2	1171.2	1153.8	1153.8
20°	1627.4	1645.8	1626.4	1506.7	1405.5	1295.0	1205.0	1137.5	1092.5	1085.3	1074.0
22.5°	1673.5	1703.1	1616.2	1464.8	1336.9	1198.8	1095.5	1070.0	1056.7	1045.4	1031.1
25°	1732.8	1731.8	1597.8	1425.9	1219.3	1084.3	1021.9	1019.8	1013.7	1009.6	1029.0
27.5°	1789.1	1765.5	1576.3	1329.8	1097.6	997.3	963.6	986.1	995.3	989.1	997.3
30°	1878.0	1839.2	1545.6	1227.5	990.2	909.4	915.5	946.2	961.5	970.7	958.5
32.5°	1972.2	1912.8	1482.2	1121.1	895.0	854.1	868.4	900.2	918.6	928.8	940.0
35°	2108.2	1970.1	1417.7	982.0	826.5	820.4	828.5	845.9	872.5	879.7	882.8
37.5°	2276.0	2057.1	1330.8	870.5	773.3	780.5	788.7	794.8	795.8	809.1	804.0
40°	2443.7	2130.7	1204.0	764.1	718.1	756.9	752.9	741.6	732.4	720.1	717.1
42.5°	2591.0	2195.1	1062.8	674.1	669.0	732.4	719.1	690.5	669.0	659.8	644.4
45°	2756.7	2286.2	920.6	617.8	631.1	702.7	698.6	654.7	627.0	594.3	590.2
47.5°	2971.5	2381.3	784.6	559.5	595.3	691.5	693.5	637.3	597.4	553.4	547.3
50°	3246.7	2518.4	681.3	535.0	573.8	675.1	678.2	613.7	561.6	516.6	512.5
52.5°	3510.6	2658.5	595.3	497.1	559.5	655.7	662.8	592.3	531.9	475.6	478.7
55°	3643.6	2607.4	521.7	469.5	526.8	624.0	650.6	576.9	486.9	448.0	447.0
57.5°	3673.2	2481.6	463.4	440.9	499.2	590.2	630.1	530.9	466.4	433.7	429.6
60°	3576.1	2261.6	417.3	410.2	464.4	555.4	583.1	506.3	446.0	419.4	413.3
62.5°	3336.7	2033.5	385.6	395.9	434.7	517.6	553.4	488.9	426.5	408.1	394.8
65°	2736.3	1672.4	360.1	368.2	404.0	480.8	535.0	469.5	409.2	391.8	390.7
67.5°	1895.4	1152.8	339.6	354.9	379.5	454.2	516.6	448.0	386.7	380.5	372.3
70°	970.7	614.8	313.0	325.3	352.9	420.4	483.8	425.5	363.1	362.1	351.9
72.5°	492.0	360.1	282.3	300.7	320.2	376.4	442.9	395.9	333.5	322.2	305.8
73°	425.5	333.5	277.2	293.6	312.0	364.2	430.6	388.7	329.4	313.0	297.7
75°	309.9	262.9	248.6	264.9	279.3	328.4	389.7	356.0	302.8	285.4	271.1
77.5°	232.2	202.5	206.6	225.0	237.3	283.3	346.8	322.2	274.1	250.6	244.5
80°	170.8	154.5	170.8	188.2	197.4	249.6	316.1	279.3	231.2	204.6	199.5
82.5°	121.7	112.5	132.0	143.2	147.3	206.6	284.4	223.0	174.9	140.1	128.9
85°	69.6	68.5	89.0	88.0	91.0	120.7	187.2	148.3	112.5	85.9	83.9
87.5°	30.7	33.8	45.0	35.8	37.8	57.3	79.8	55.2	46.0	25.6	19.4
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)