

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: P478000

Luminaire Tested: **IFLD-S-SA3A-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

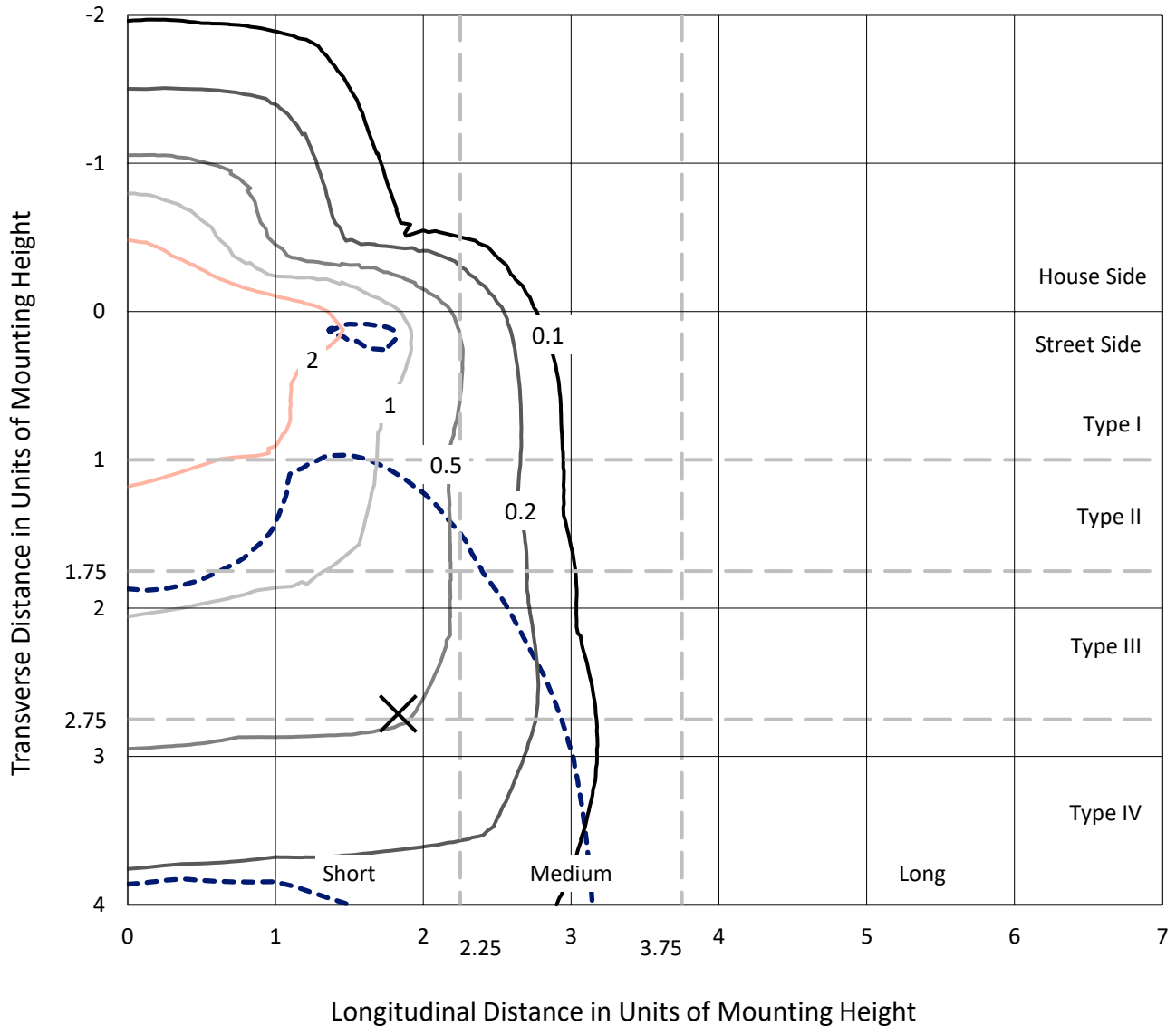
Lumens per Lamp: N/A
Luminaire Lumens: 10382.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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

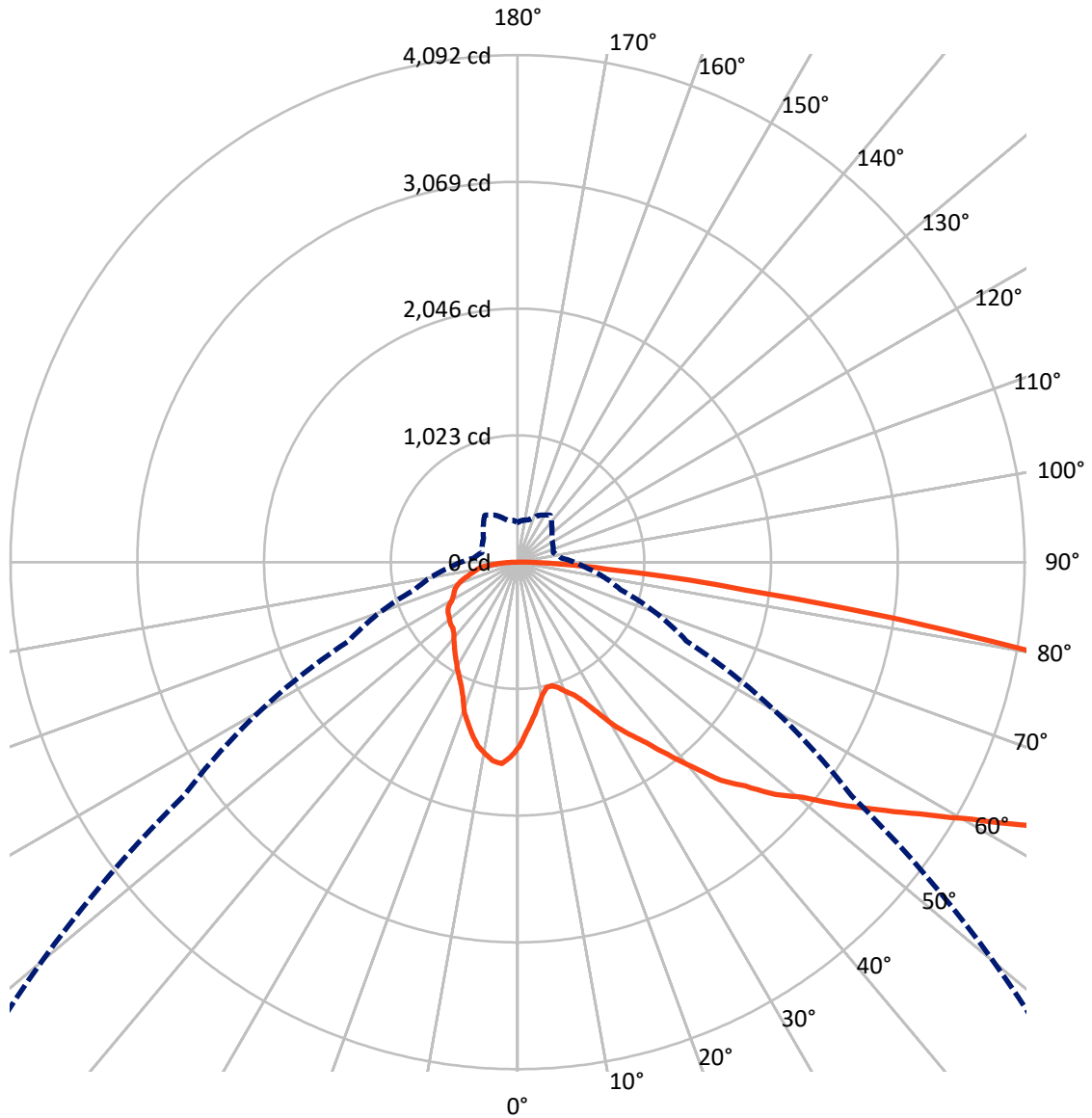
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	2242.8	0.0	2242.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8139.9	0.0	8139.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	10382.7	0.0	10382.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.3
10°-20°	384.5	3.7
20°-30°	632.8	6.1
30°-40°	946.3	9.1
40°-50°	1402.9	13.5
50°-60°	2021.7	19.5
60°-70°	2580.0	24.8
70°-80°	2007.7	19.3
80°-90°	269.3	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°	10382.7	100.0
0°-180°	10382.7	100.0

Coefficient of Utilization



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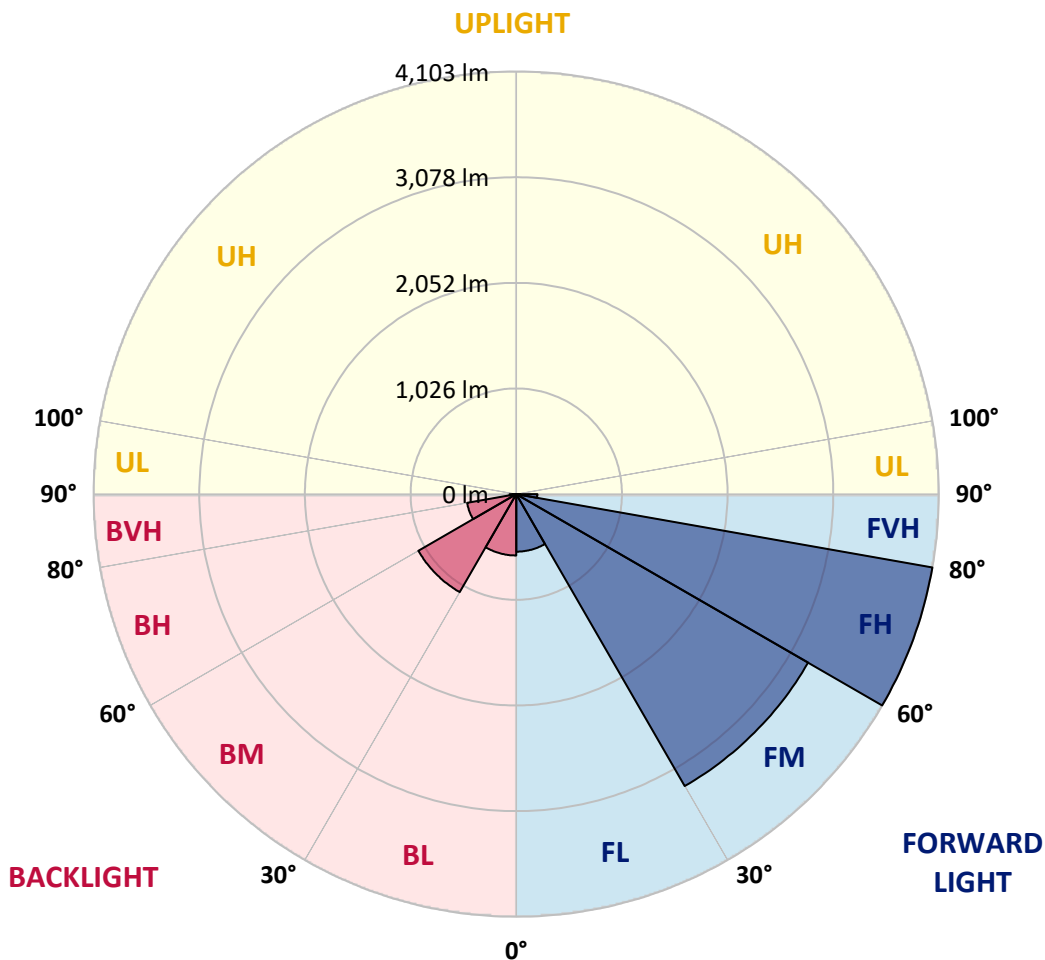
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.8	5.4			
FM (30°-60°)	3272.7	31.5			
FH (60°-80°)	4103.4	39.5			G2/5000
FVH (80°-90°)	205.0	2.0			G2/225
BL (0°-30°)	595.9	5.7	B2/1000		
BM (30°-60°)	1098.3	10.6	B2/2500		
BH (60°-80°)	484.3	4.7	B1/500		G1/500
BVH (80°-90°)	64.3	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°	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1333.7	1338.1	1352.4	1355.7	1371.1	1362.3	1381.0	1413.9	1432.5	1460.0	1492.9
5°	1228.4	1209.7	1218.5	1252.5	1270.1	1274.5	1294.2	1350.2	1385.3	1426.0	1487.4
7.5°	1104.3	1101.0	1118.6	1140.5	1175.7	1179.0	1222.9	1272.3	1344.7	1434.7	1507.2
10°	1019.8	1034.1	1043.9	1067.0	1091.1	1091.1	1147.1	1232.8	1315.1	1401.8	1511.6
12.5°	1015.4	1006.6	1008.8	1020.9	1038.5	1060.4	1113.1	1189.9	1294.2	1395.2	1530.2
15°	1029.7	1033.0	1013.2	1028.6	1035.2	1042.8	1101.0	1187.7	1281.1	1418.3	1562.1
17.5°	1105.4	1086.8	1056.0	1041.8	1064.8	1064.8	1104.3	1172.4	1283.3	1430.3	1608.2
20°	1164.7	1164.7	1114.2	1098.8	1115.3	1112.0	1139.4	1189.9	1294.2	1454.5	1659.8
22.5°	1264.6	1278.9	1195.4	1163.6	1162.5	1171.3	1195.4	1238.2	1325.0	1488.5	1709.2
25°	1408.4	1411.7	1315.1	1282.2	1247.0	1261.3	1265.7	1308.5	1352.4	1528.0	1765.2
27.5°	1568.7	1566.5	1477.6	1395.2	1372.2	1375.5	1351.3	1379.9	1393.0	1540.1	1845.3
30°	1746.5	1726.7	1659.8	1543.4	1524.8	1503.9	1451.2	1450.1	1477.6	1608.2	1956.2
32.5°	1862.9	1837.6	1791.5	1708.1	1656.5	1658.7	1575.2	1574.2	1550.0	1682.8	2052.8
35°	1977.0	1938.6	1926.5	1840.9	1789.3	1794.8	1727.8	1719.1	1675.1	1795.9	2211.9
37.5°	2114.2	2080.2	2098.9	2034.1	1970.4	1944.1	1913.4	1902.4	1845.3	1955.1	2429.3
40°	2265.7	2254.7	2242.7	2210.8	2172.4	2174.6	2141.7	2130.7	2046.2	2147.2	2637.9
42.5°	2469.9	2428.2	2365.6	2386.5	2406.2	2427.1	2416.1	2387.6	2299.8	2342.6	2870.6
45°	2659.8	2604.9	2489.7	2496.2	2577.5	2593.9	2726.8	2723.5	2546.7	2590.7	3135.1
47.5°	2788.2	2763.0	2693.8	2686.2	2802.5	2801.4	3040.7	3040.7	2806.9	2837.6	3419.4
50°	2979.3	2913.4	2883.7	2922.2	2981.4	3022.1	3361.3	3382.1	3062.7	3095.6	3791.6
52.5°	3203.2	3120.9	3046.2	3145.0	3250.4	3276.7	3678.5	3669.7	3259.2	3395.3	4227.4
55°	3388.7	3347.0	3295.4	3352.5	3524.8	3557.8	3996.9	3915.6	3455.7	3643.4	4437.0
57.5°	3605.0	3630.2	3641.2	3626.9	3832.2	3883.8	4360.2	4127.5	3624.7	3810.2	4560.0
60°	3931.0	3946.4	3960.6	3994.7	4212.0	4284.5	4647.8	4393.1	3731.2	3906.8	4569.9
62.5°	4427.2	4367.9	4399.7	4517.2	4691.7	4774.0	5071.5	4579.8	3812.4	3965.0	4247.1
65°	4994.7	4914.6	4881.6	5033.1	5485.4	5419.5	5600.6	4719.2	3695.0	3747.7	3601.7
67.5°	5569.9	5578.7	5494.2	5798.2	6352.6	6352.6	6092.4	4786.1	3376.6	3037.4	2525.9
70°	6026.6	6054.0	6100.1	6689.6	7567.8	7700.6	6701.7	4511.7	2727.9	2022.0	1381.0
72.5°	6020.0	5937.6	6173.7	7259.3	8672.1	8561.2	6829.0	3567.6	1702.6	990.2	633.4
73°	5885.0	5815.8	6073.8	7253.8	8717.1	8612.8	6735.7	3288.8	1501.7	858.4	563.1
75°	4805.9	4680.7	5119.8	6569.9	8065.1	8145.2	5722.5	2145.0	823.3	529.1	396.3
77.5°	2191.1	2246.0	2817.9	4407.4	6215.4	6309.8	3761.9	927.6	451.2	371.0	292.0
80°	703.6	738.8	1096.6	2191.1	3895.9	4066.0	1738.8	421.5	321.6	284.3	218.4
82.5°	268.9	267.8	460.0	911.1	1846.4	1955.1	635.6	256.9	239.3	209.7	154.8
85°	94.4	98.8	173.4	360.1	726.7	760.7	220.6	142.7	165.8	140.5	88.9
87.5°	32.9	34.0	61.5	130.6	250.3	264.6	61.5	57.1	82.3	81.2	45.0
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°	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1503.9	1513.8	1517.1	1556.6	1556.6	1556.6	1572.0	1572.0	1567.6	1556.6	1582.9
5°	1510.5	1528.0	1562.1	1596.1	1604.9	1612.6	1633.4	1615.9	1622.5	1611.5	1621.4
7.5°	1529.1	1553.3	1617.0	1637.8	1623.5	1640.0	1618.1	1606.0	1593.9	1598.3	1582.9
10°	1561.0	1591.7	1621.4	1659.8	1632.3	1615.9	1570.9	1559.9	1521.5	1508.3	1520.4
12.5°	1600.5	1637.8	1688.3	1674.0	1621.4	1574.2	1525.9	1479.7	1456.7	1423.8	1432.5
15°	1640.0	1682.8	1690.5	1666.4	1600.5	1541.2	1453.4	1388.6	1365.6	1335.9	1351.3
17.5°	1682.8	1723.4	1710.3	1647.7	1558.8	1468.8	1368.9	1305.2	1256.9	1238.2	1238.2
20°	1746.5	1766.3	1745.4	1617.0	1508.3	1389.7	1293.1	1220.7	1172.4	1164.7	1152.6
22.5°	1795.9	1827.7	1734.4	1572.0	1434.7	1286.5	1175.7	1148.2	1134.0	1121.9	1106.5
25°	1859.6	1858.5	1714.7	1530.2	1308.5	1163.6	1096.6	1094.4	1087.9	1083.5	1104.3
27.5°	1919.9	1894.7	1691.6	1427.1	1177.9	1070.3	1034.1	1058.2	1068.1	1061.5	1070.3
30°	2015.4	1973.7	1658.7	1317.3	1062.6	975.9	982.5	1015.4	1031.9	1041.8	1028.6
32.5°	2116.4	2052.8	1590.6	1203.1	960.5	916.6	932.0	966.0	985.8	996.7	1008.8
35°	2262.4	2114.2	1521.5	1053.8	887.0	880.4	889.2	907.8	936.4	944.1	947.3
37.5°	2442.5	2207.5	1428.2	934.2	829.9	837.6	846.4	852.9	854.0	868.3	862.8
40°	2622.5	2286.6	1292.0	820.0	770.6	812.3	807.9	795.9	786.0	772.8	769.5
42.5°	2780.6	2355.7	1140.5	723.4	717.9	786.0	771.7	741.0	717.9	708.0	691.6
45°	2958.4	2453.4	988.0	663.0	677.3	754.1	749.8	702.6	672.9	637.8	633.4
47.5°	3188.9	2555.5	842.0	600.5	638.9	742.1	744.3	683.9	641.1	593.9	587.3
50°	3484.2	2702.6	731.1	574.1	615.8	724.5	727.8	658.6	602.7	554.4	550.0
52.5°	3767.4	2853.0	638.9	533.5	600.5	703.6	711.3	635.6	570.8	510.4	513.7
55°	3910.1	2798.1	559.8	503.9	565.3	669.6	698.2	619.1	522.5	480.8	479.7
57.5°	3942.0	2663.1	497.3	473.1	535.7	633.4	676.2	569.7	500.6	465.4	461.0
60°	3837.7	2427.1	447.9	440.2	498.4	596.1	625.7	543.4	478.6	450.1	443.5
62.5°	3580.8	2182.3	413.8	424.8	466.5	555.5	593.9	524.7	457.8	438.0	423.7
65°	2936.4	1794.8	386.4	395.2	433.6	515.9	574.1	503.9	439.1	420.4	419.3
67.5°	2034.1	1237.1	364.4	380.9	407.3	487.4	554.4	480.8	414.9	408.4	399.6
70°	1041.8	659.7	335.9	349.1	378.7	451.2	519.2	456.7	389.7	388.6	377.6
72.5°	528.0	386.4	303.0	322.7	343.6	404.0	475.3	424.8	357.9	345.8	328.2
73°	456.7	357.9	297.5	315.0	334.8	390.8	462.1	417.1	353.5	335.9	319.4
75°	332.6	282.1	266.7	284.3	299.7	352.4	418.2	382.0	324.9	306.3	290.9
77.5°	249.2	217.4	221.7	241.5	254.7	304.1	372.1	345.8	294.2	268.9	262.4
80°	183.3	165.8	183.3	202.0	211.9	267.8	339.2	299.7	248.1	219.5	214.1
82.5°	130.6	120.8	141.6	153.7	158.1	221.7	305.2	239.3	187.7	150.4	138.3
85°	74.6	73.5	95.5	94.4	97.7	129.5	200.9	159.2	120.8	92.2	90.0
87.5°	32.9	36.2	48.3	38.4	40.6	61.5	85.6	59.3	49.4	27.4	20.9
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)