

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: P478312

Luminaire Tested: **IFLD-S-SA3A-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478312
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

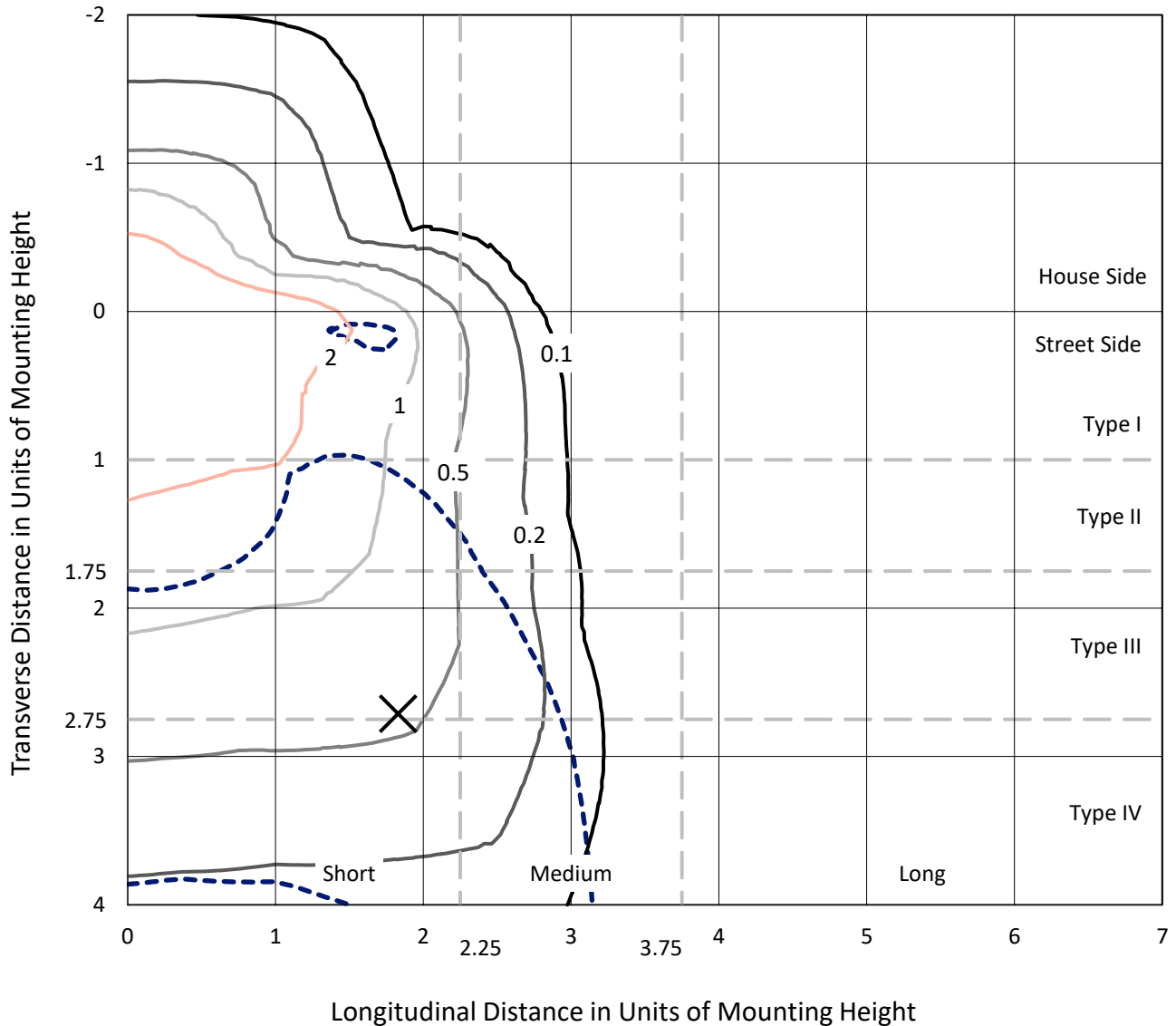
Lumens per Lamp: N/A
Luminaire Lumens: 11200.3 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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: P478312
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

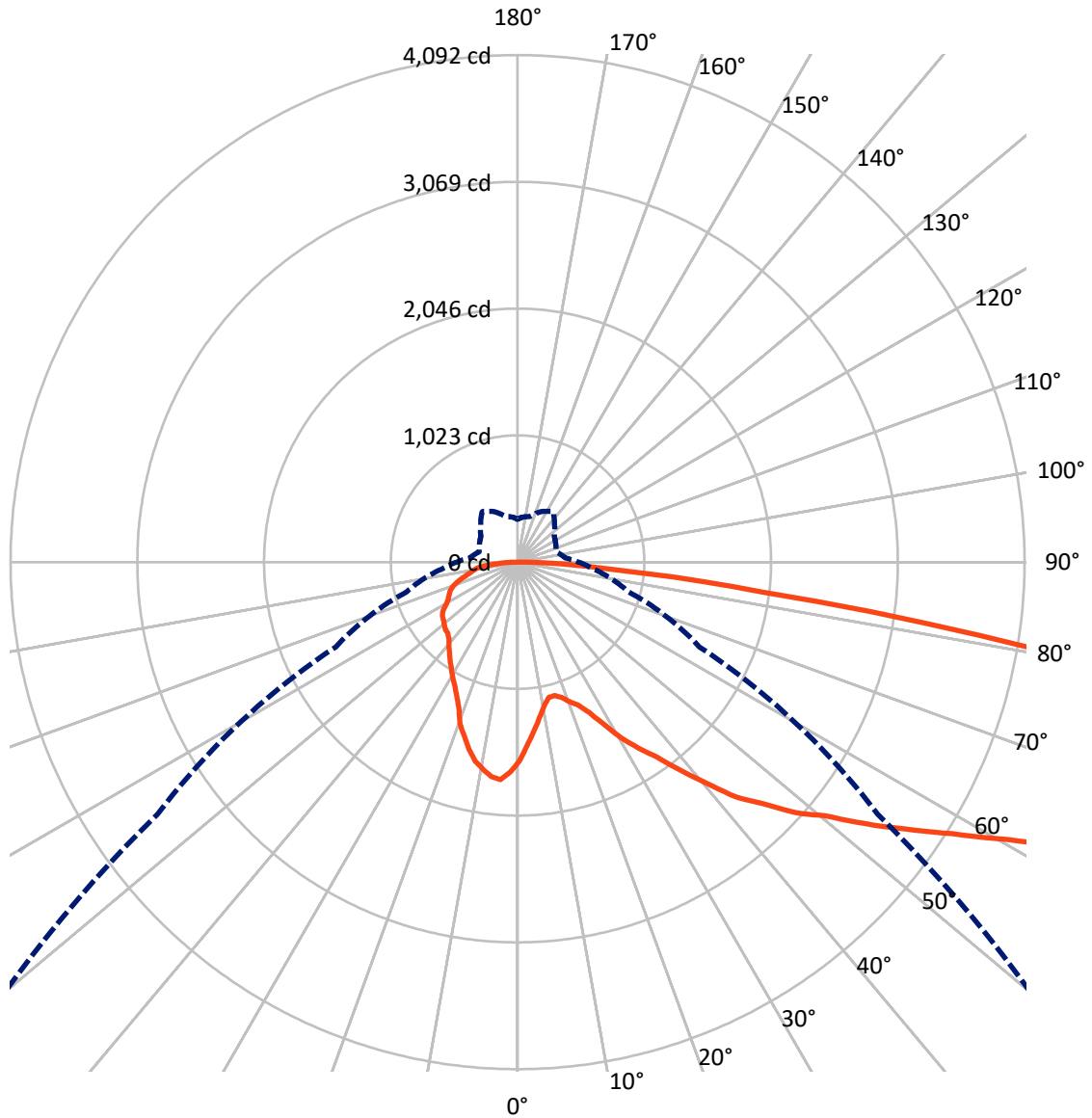
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P478312
CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478312
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2419.4	0.0	2419.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	8780.9	0.0	8780.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	11200.3	0.0	11200.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.3
10°-20°	414.8	3.7
20°-30°	682.6	6.1
30°-40°	1020.9	9.1
40°-50°	1513.4	13.5
50°-60°	2180.9	19.5
60°-70°	2783.2	24.8
70°-80°	2165.8	19.3
80°-90°	290.5	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°	11200.3	100.0
0°-180°	11200.3	100.0

Coefficient of Utilization



REPORT NUMBER: P478312

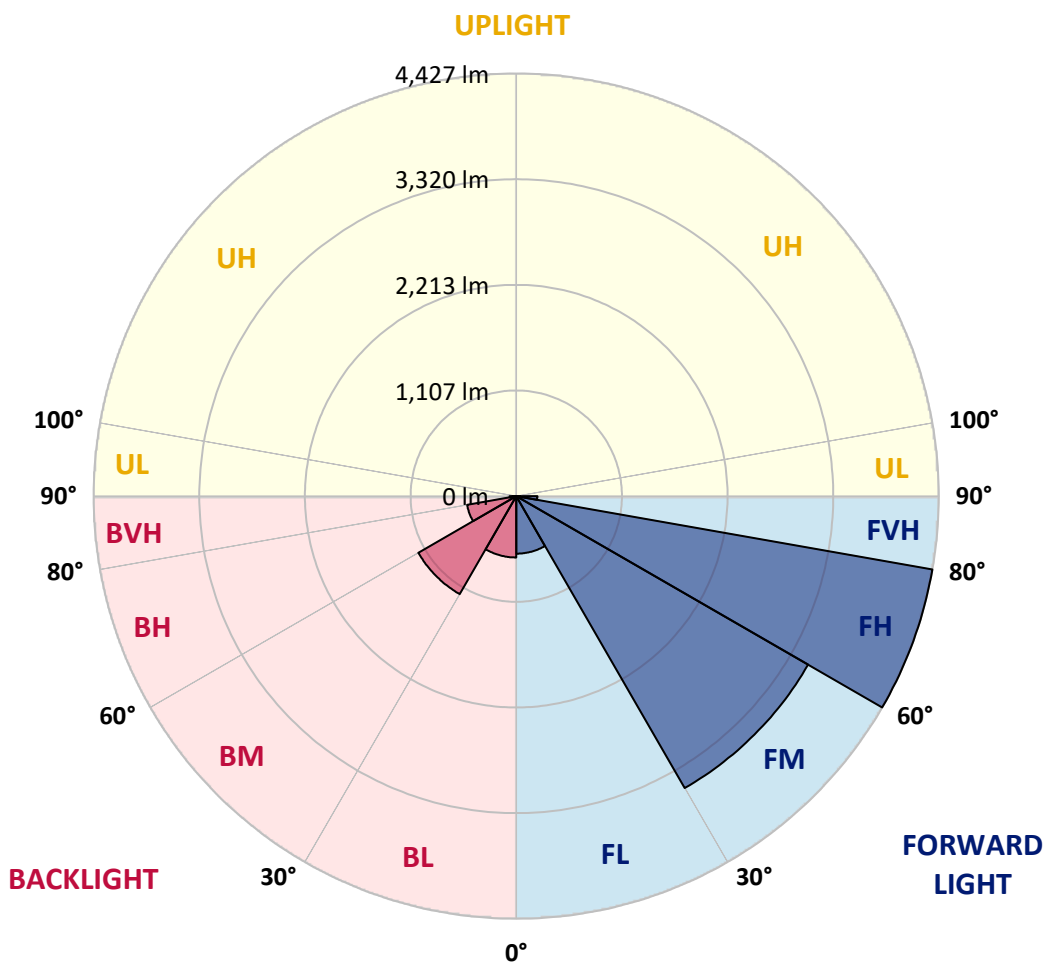
CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.8	5.4			
FM (30°-60°)	3530.4	31.5			
FH (60°-80°)	4426.6	39.5			G2/5000
FVH (80°-90°)	221.2	2.0			G2/225
BL (0°-30°)	642.8	5.7	B2/1000		
BM (30°-60°)	1184.8	10.6	B2/2500		
BH (60°-80°)	522.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	69.4	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: P478312

CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7
2.5°	1438.8	1443.5	1458.9	1462.5	1479.0	1469.6	1489.7	1525.2	1545.3	1574.9	1610.5
5°	1325.1	1305.0	1314.4	1351.1	1370.1	1374.8	1396.1	1456.5	1494.4	1538.2	1604.6
7.5°	1191.3	1187.7	1206.7	1230.4	1268.2	1271.8	1319.2	1372.5	1450.6	1547.7	1625.9
10°	1100.1	1115.5	1126.1	1151.0	1177.1	1177.1	1237.5	1329.8	1418.6	1512.2	1630.6
12.5°	1095.4	1085.9	1088.3	1101.3	1120.2	1143.9	1200.7	1283.6	1396.1	1505.1	1650.7
15°	1110.8	1114.3	1093.0	1109.6	1116.7	1125.0	1187.7	1281.3	1381.9	1529.9	1685.1
17.5°	1192.5	1172.3	1139.2	1123.8	1148.6	1148.6	1191.3	1264.7	1384.3	1543.0	1734.8
20°	1256.4	1256.4	1201.9	1185.4	1203.1	1199.6	1229.2	1283.6	1396.1	1569.0	1790.5
22.5°	1364.2	1379.6	1289.6	1255.2	1254.0	1263.5	1289.6	1335.7	1429.3	1605.7	1843.8
25°	1519.3	1522.8	1418.6	1383.1	1345.2	1360.6	1365.3	1411.5	1458.9	1648.4	1904.1
27.5°	1692.2	1689.8	1593.9	1505.1	1480.2	1483.8	1457.7	1488.5	1502.7	1661.4	1990.6
30°	1884.0	1862.7	1790.5	1664.9	1644.8	1622.3	1565.5	1564.3	1593.9	1734.8	2110.2
32.5°	2009.5	1982.3	1932.6	1842.6	1786.9	1789.3	1699.3	1698.1	1672.0	1815.3	2214.4
35°	2132.7	2091.2	2078.2	1985.9	1930.2	1936.1	1863.9	1854.4	1807.0	1937.3	2386.1
37.5°	2280.7	2244.0	2264.1	2194.3	2125.6	2097.2	2064.0	2052.2	1990.6	2109.0	2620.6
40°	2444.1	2432.3	2419.3	2384.9	2343.5	2345.8	2310.3	2298.5	2207.3	2316.2	2845.6
42.5°	2664.4	2619.4	2551.9	2574.4	2595.7	2618.2	2606.4	2575.6	2480.8	2527.0	3096.6
45°	2869.2	2810.0	2685.7	2692.8	2780.4	2798.2	2941.5	2937.9	2747.3	2794.6	3382.0
47.5°	3007.8	2980.6	2906.0	2897.7	3023.2	3022.0	3280.2	3280.2	3027.9	3061.1	3688.7
50°	3213.8	3142.8	3110.8	3152.3	3216.2	3260.0	3625.9	3648.4	3303.8	3339.4	4090.1
52.5°	3455.4	3366.6	3286.1	3392.6	3506.3	3534.7	3968.2	3958.7	3515.8	3662.6	4560.2
55°	3655.5	3610.5	3554.9	3616.5	3802.4	3837.9	4311.6	4223.9	3727.8	3930.3	4786.4
57.5°	3888.8	3916.1	3927.9	3912.5	4133.9	4189.6	4703.5	4452.5	3910.1	4110.3	4919.0
60°	4240.5	4257.1	4272.5	4309.2	4543.7	4621.8	5013.8	4739.1	4025.0	4214.5	4929.7
62.5°	4775.8	4711.8	4746.2	4872.9	5061.1	5150.0	5470.9	4940.4	4112.6	4277.2	4581.6
65°	5388.0	5301.5	5266.0	5429.4	5917.3	5846.3	6041.6	5090.8	3985.9	4042.8	3885.3
67.5°	6008.5	6018.0	5926.8	6254.8	6852.8	6852.8	6572.1	5163.0	3642.5	3276.6	2724.8
70°	6501.1	6530.7	6580.4	7216.3	8163.7	8307.0	7229.4	4866.9	2942.7	2181.2	1489.7
72.5°	6494.0	6405.2	6659.8	7830.9	9354.9	9235.3	7366.7	3848.6	1836.6	1068.1	683.3
73°	6348.3	6273.7	6552.0	7825.0	9403.5	9291.0	7266.1	3547.8	1619.9	926.0	607.5
75°	5184.3	5049.3	5523.0	7087.3	8700.1	8786.5	6173.1	2313.9	888.1	570.8	427.5
77.5°	2363.6	2422.8	3039.8	4754.4	6704.8	6806.6	4058.2	1000.6	486.7	400.2	315.0
80°	759.1	796.9	1183.0	2363.6	4202.6	4386.2	1875.7	454.7	347.0	306.7	235.6
82.5°	290.1	288.9	496.2	982.9	1991.8	2109.0	685.6	277.1	258.1	226.2	167.0
85°	101.8	106.6	187.1	388.4	783.9	820.6	238.0	153.9	178.8	151.6	95.9
87.5°	35.5	36.7	66.3	140.9	270.0	285.4	66.3	61.6	88.8	87.6	48.6
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: P478312
 CATALOG NUMBER: IFLD-S-SA3A-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7	1605.7
2.5°	1622.3	1633.0	1636.5	1679.2	1679.2	1679.2	1695.7	1695.7	1691.0	1679.2	1707.6
5°	1629.4	1648.4	1685.1	1721.8	1731.3	1739.5	1762.0	1743.1	1750.2	1738.4	1749.0
7.5°	1649.5	1675.6	1744.3	1766.8	1751.4	1769.2	1745.5	1732.4	1719.4	1724.2	1707.6
10°	1683.9	1717.0	1749.0	1790.5	1760.9	1743.1	1694.5	1682.7	1641.3	1627.1	1640.1
12.5°	1726.5	1766.8	1821.3	1805.9	1749.0	1698.1	1646.0	1596.3	1571.4	1535.9	1545.3
15°	1769.2	1815.3	1823.6	1797.6	1726.5	1662.6	1567.8	1498.0	1473.1	1441.1	1457.7
17.5°	1815.3	1859.1	1844.9	1777.4	1681.5	1584.4	1476.7	1408.0	1355.9	1335.7	1335.7
20°	1884.0	1905.3	1882.8	1744.3	1627.1	1499.2	1395.0	1316.8	1264.7	1256.4	1243.4
22.5°	1937.3	1971.6	1871.0	1695.7	1547.7	1387.8	1268.2	1238.6	1223.2	1210.2	1193.6
25°	2006.0	2004.8	1849.7	1650.7	1411.5	1255.2	1183.0	1180.6	1173.5	1168.8	1191.3
27.5°	2071.1	2043.9	1824.8	1539.4	1270.6	1154.6	1115.5	1141.5	1152.2	1145.1	1154.6
30°	2174.1	2129.1	1789.3	1421.0	1146.3	1052.7	1059.8	1095.4	1113.1	1123.8	1109.6
32.5°	2283.1	2214.4	1715.9	1297.9	1036.1	988.8	1005.4	1042.1	1063.4	1075.2	1088.3
35°	2440.6	2280.7	1641.3	1136.8	956.8	949.7	959.2	979.3	1010.1	1018.4	1021.9
37.5°	2634.8	2381.4	1540.6	1007.7	895.2	903.5	913.0	920.1	921.3	936.7	930.8
40°	2829.0	2466.6	1393.8	884.6	831.3	876.3	871.5	858.5	847.9	833.7	830.1
42.5°	2999.5	2541.2	1230.4	780.4	774.4	847.9	832.5	799.3	774.4	763.8	746.0
45°	3191.3	2646.6	1065.8	715.2	730.6	813.5	808.8	757.9	725.9	688.0	683.3
47.5°	3440.0	2756.7	908.3	647.7	689.2	800.5	802.9	737.7	691.6	640.6	633.5
50°	3758.6	2915.4	788.7	619.3	664.3	781.6	785.1	710.5	650.1	598.0	593.3
52.5°	4064.1	3077.7	689.2	575.5	647.7	759.1	767.3	685.6	615.8	550.6	554.2
55°	4218.0	3018.5	603.9	543.5	609.8	722.3	753.1	667.9	563.7	518.7	517.5
57.5°	4252.4	2872.8	536.4	510.4	577.9	683.3	729.4	614.6	540.0	502.1	497.4
60°	4139.9	2618.2	483.1	474.9	537.6	643.0	675.0	586.2	516.3	485.5	478.4
62.5°	3862.8	2354.1	446.4	458.3	503.3	599.2	640.6	566.0	493.8	472.5	457.1
65°	3167.7	1936.1	416.8	426.3	467.7	556.6	619.3	543.5	473.7	453.5	452.4
67.5°	2194.3	1334.6	393.1	410.9	439.3	525.8	598.0	518.7	447.6	440.5	431.0
70°	1123.8	711.7	362.4	376.6	408.5	486.7	560.1	492.6	420.4	419.2	407.4
72.5°	569.6	416.8	326.8	348.1	370.6	435.8	512.7	458.3	386.0	373.0	354.1
73°	492.6	386.0	320.9	339.9	361.2	421.6	498.5	450.0	381.3	362.4	344.6
75°	358.8	304.3	287.8	306.7	323.3	380.1	451.2	412.1	350.5	330.4	313.8
77.5°	268.8	234.5	239.2	260.5	274.7	328.0	401.4	373.0	317.4	290.1	283.0
80°	197.8	178.8	197.8	217.9	228.5	288.9	365.9	323.3	267.6	236.8	230.9
82.5°	140.9	130.3	152.8	165.8	170.5	239.2	329.2	258.1	202.5	162.2	149.2
85°	80.5	79.3	103.0	101.8	105.4	139.7	216.7	171.7	130.3	99.5	97.1
87.5°	35.5	39.1	52.1	41.4	43.8	66.3	92.4	63.9	53.3	29.6	22.5
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)