

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: P479209

Luminaire Tested: **IFLD-S-SA3A-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479209
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

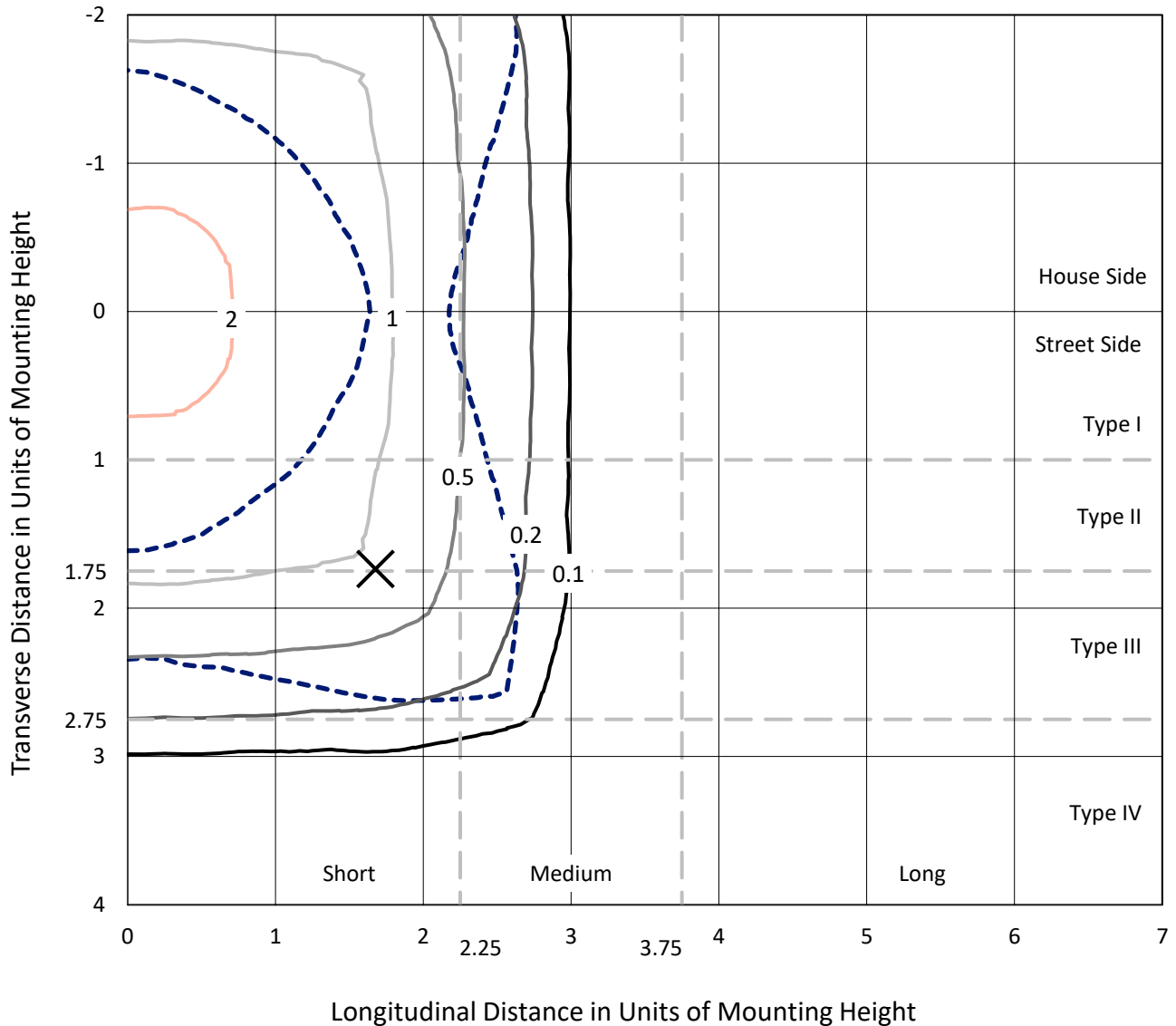
Lumens per Lamp: N/A
Luminaire Lumens: 11614.5 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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: P479209
 CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

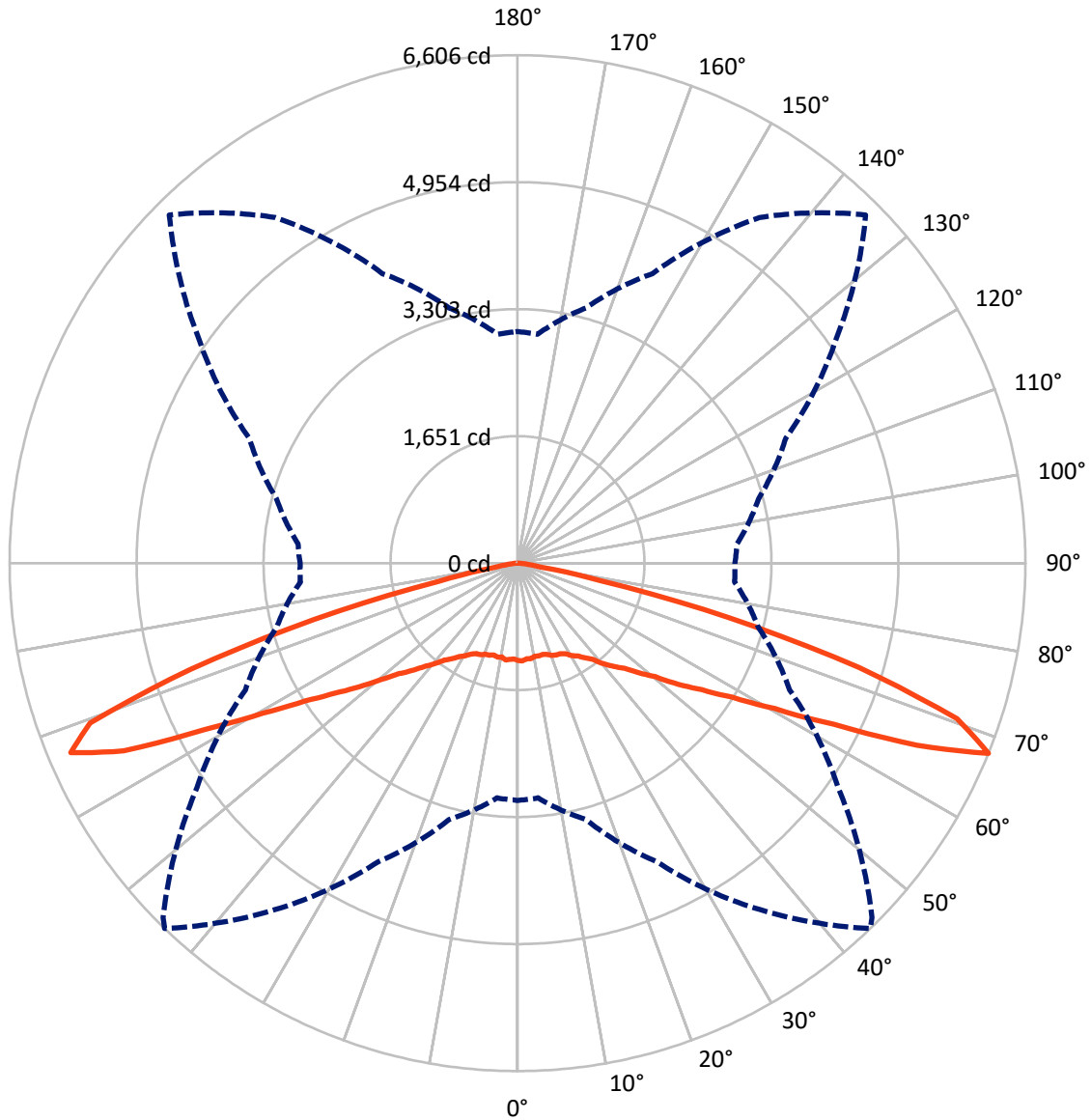
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - N/A

REPORT NUMBER: P479209
CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479209

CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5792.4	0.0	5792.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	5822.1	0.0	5822.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	11614.5	0.0	11614.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.0
10°-20°	350.7	3.0
20°-30°	596.5	5.1
30°-40°	945.7	8.1
40°-50°	1542.0	13.3
50°-60°	2633.6	22.7
60°-70°	4005.7	34.5
70°-80°	1350.2	11.6
80°-90°	70.1	0.6
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°	11614.5	100.0
0°-180°	11614.5	100.0

Coefficient of Utilization



REPORT NUMBER: P479209

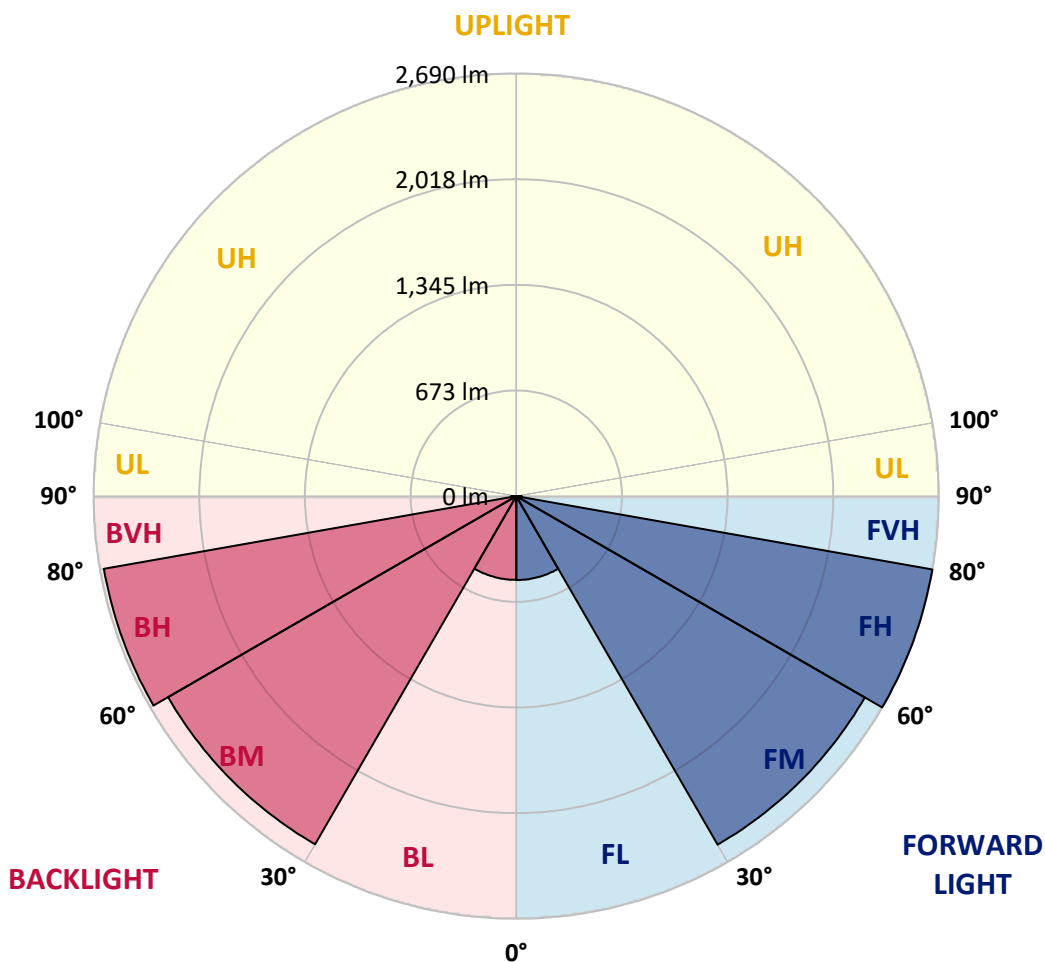
CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.2	4.6			
FM (30°-60°)	2562.1	22.1			
FH (60°-80°)	2690.0	23.2			G2/5000
FVH (80°-90°)	35.9	0.3			G1/100
BL (0°-30°)	533.1	4.6	B2/1000		
BM (30°-60°)	2559.3	22.0	B3/5000		
BH (60°-80°)	2665.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	34.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P479209

CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7
2.5°	1239.5	1254.1	1264.7	1263.4	1267.4	1271.3	1266.0	1274.0	1268.7	1278.0	1283.3
5°	1263.4	1259.4	1260.7	1252.8	1271.3	1250.1	1250.1	1260.7	1274.0	1258.1	1267.4
7.5°	1248.8	1246.1	1239.5	1251.5	1255.4	1255.4	1266.0	1246.1	1268.7	1274.0	1275.3
10°	1232.9	1218.3	1238.2	1250.1	1252.8	1231.6	1240.8	1246.1	1239.5	1246.1	1250.1
12.5°	1219.6	1227.6	1227.6	1227.6	1223.6	1238.2	1247.5	1246.1	1232.9	1244.8	1223.6
15°	1218.3	1214.3	1226.3	1236.9	1230.2	1232.9	1236.9	1248.8	1223.6	1228.9	1228.9
17.5°	1217.0	1222.3	1226.3	1224.9	1247.5	1247.5	1243.5	1235.5	1255.4	1244.8	1230.2
20°	1222.3	1218.3	1228.9	1232.9	1248.8	1280.6	1268.7	1262.1	1251.5	1238.2	1238.2
22.5°	1228.9	1226.3	1240.8	1258.1	1288.6	1296.5	1295.2	1287.2	1268.7	1252.8	1250.1
25°	1252.8	1228.9	1244.8	1278.0	1288.6	1304.5	1315.1	1304.5	1279.3	1283.3	1259.4
27.5°	1288.6	1284.6	1305.8	1328.3	1319.1	1333.6	1324.4	1332.3	1333.6	1313.8	1289.9
30°	1331.0	1319.1	1332.3	1376.1	1380.0	1396.0	1380.0	1358.8	1365.5	1348.2	1336.3
32.5°	1392.0	1388.0	1413.2	1442.4	1447.7	1439.7	1431.7	1443.7	1415.8	1402.6	1381.4
35°	1431.7	1449.0	1479.5	1502.0	1519.2	1511.3	1515.3	1503.3	1510.0	1482.1	1472.8
37.5°	1549.7	1543.1	1549.7	1588.2	1592.2	1588.2	1592.2	1605.4	1596.1	1572.3	1548.4
40°	1661.1	1650.5	1666.4	1710.1	1707.5	1720.7	1694.2	1708.8	1708.8	1663.7	1654.5
42.5°	1744.6	1780.4	1799.0	1834.8	1848.0	1836.1	1830.8	1833.4	1862.6	1809.6	1789.7
45°	1916.9	1915.6	1971.3	1991.2	1954.1	1951.4	1940.8	1972.6	1992.5	1962.0	1954.1
47.5°	2103.9	2113.1	2145.0	2152.9	2175.5	2134.4	2134.4	2138.3	2208.6	2137.0	2099.9
50°	2272.2	2284.2	2347.8	2410.1	2367.7	2323.9	2341.2	2362.4	2400.8	2333.2	2301.4
52.5°	2476.4	2541.3	2583.8	2616.9	2647.4	2616.9	2577.1	2601.0	2676.6	2586.4	2546.7
55°	2770.7	2822.4	2862.2	2923.1	2948.3	2907.2	2903.3	2900.6	2943.0	2847.6	2793.2
57.5°	3099.5	3078.3	3141.9	3236.0	3327.5	3287.7	3275.8	3278.4	3289.0	3153.8	3112.7
60°	3507.8	3531.6	3607.2	3689.4	3786.2	3841.8	3763.6	3718.6	3727.8	3543.6	3479.9
62.5°	3741.1	3794.1	3965.1	4247.5	4442.4	4616.1	4628.0	4335.0	4138.8	3780.9	3510.4
65°	3628.4	3620.5	3942.6	4464.9	5203.3	5708.4	5632.9	4922.3	4236.9	3668.2	3304.9
67.5°	3086.2	3065.0	3454.7	4283.3	5502.9	6605.9	6519.7	5088.0	3905.5	3245.3	2834.3
70°	1988.5	1983.2	2406.1	3265.2	4913.0	6065.0	6096.8	4621.4	3179.0	2377.0	1970.0
72.5°	722.5	766.2	1011.5	1755.2	3336.8	4639.9	4659.8	3421.6	1828.1	1099.0	810.0
75°	266.5	274.4	319.5	570.0	1520.6	2848.9	2923.1	1659.8	649.6	357.9	291.7
77.5°	153.8	155.1	171.0	212.1	450.7	1112.3	1157.3	503.8	251.9	190.9	176.3
80°	104.7	103.4	120.6	137.9	180.3	315.5	335.4	210.8	159.1	132.6	111.4
82.5°	61.0	65.0	88.8	98.1	110.0	139.2	141.8	131.2	119.3	98.1	72.9
85°	37.1	30.5	49.1	54.4	63.6	62.3	62.3	71.6	76.9	68.9	41.1
87.5°	9.3	9.3	11.9	13.3	17.2	13.3	14.6	27.8	37.1	34.5	21.2
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: P479209
 CATALOG NUMBER: IFLD-S-SA3A-727-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7	1268.7
2.5°	1271.3	1267.4	1270.0	1284.6	1275.3	1247.5	1254.1	1268.7	1256.8	1250.1	1248.8
5°	1266.0	1274.0	1264.7	1267.4	1276.6	1254.1	1258.1	1276.6	1268.7	1271.3	1256.8
7.5°	1267.4	1271.3	1263.4	1251.5	1251.5	1270.0	1259.4	1262.1	1250.1	1270.0	1243.5
10°	1259.4	1248.8	1239.5	1246.1	1243.5	1238.2	1234.2	1242.2	1230.2	1247.5	1228.9
12.5°	1235.5	1238.2	1235.5	1232.9	1238.2	1251.5	1230.2	1232.9	1214.3	1217.0	1226.3
15°	1226.3	1234.2	1231.6	1246.1	1252.8	1232.9	1248.8	1232.9	1218.3	1210.4	1224.9
17.5°	1230.2	1242.2	1238.2	1248.8	1236.9	1251.5	1254.1	1247.5	1230.2	1223.6	1230.2
20°	1234.2	1230.2	1235.5	1254.1	1271.3	1256.8	1256.8	1252.8	1236.9	1227.6	1227.6
22.5°	1243.5	1236.9	1244.8	1259.4	1264.7	1287.2	1267.4	1258.1	1231.6	1207.7	1230.2
25°	1262.1	1266.0	1271.3	1266.0	1295.2	1292.5	1289.9	1283.3	1242.2	1243.5	1239.5
27.5°	1297.9	1275.3	1281.9	1313.8	1317.7	1328.3	1315.1	1327.0	1283.3	1284.6	1258.1
30°	1341.6	1317.7	1338.9	1366.8	1365.5	1385.3	1378.7	1381.4	1350.9	1333.6	1297.9
32.5°	1389.3	1386.7	1399.9	1417.2	1423.8	1434.4	1433.1	1433.1	1414.5	1369.4	1376.1
35°	1442.4	1460.9	1476.8	1495.4	1498.0	1511.3	1492.7	1495.4	1476.8	1443.7	1454.3
37.5°	1547.1	1545.8	1563.0	1585.5	1588.2	1577.6	1592.2	1585.5	1560.3	1537.8	1520.6
40°	1669.0	1642.5	1658.4	1711.5	1715.4	1696.9	1695.6	1694.2	1675.7	1626.6	1616.0
42.5°	1775.1	1809.6	1806.9	1824.1	1812.2	1802.9	1836.1	1817.5	1802.9	1751.2	1742.0
45°	1911.6	1922.3	1956.7	2012.4	1955.4	1955.4	1977.9	1963.3	1955.4	1916.9	1881.2
47.5°	2081.3	2090.6	2159.5	2163.5	2126.4	2101.2	2171.5	2174.1	2141.0	2111.8	2068.1
50°	2280.2	2284.2	2346.5	2410.1	2369.0	2321.3	2392.9	2420.7	2346.5	2306.7	2252.3
52.5°	2498.9	2487.0	2538.7	2658.0	2618.2	2603.7	2680.5	2687.2	2586.4	2524.1	2538.7
55°	2750.8	2734.9	2875.4	2956.3	2931.1	2904.6	2939.1	2955.0	2874.1	2772.0	2807.8
57.5°	3076.9	3084.9	3155.1	3234.7	3275.8	3282.4	3298.3	3282.4	3200.2	3096.8	3063.7
60°	3403.0	3426.9	3563.5	3713.3	3726.5	3843.2	3822.0	3742.4	3625.8	3478.6	3485.2
62.5°	3523.7	3503.8	3723.9	4089.8	4401.3	4614.7	4520.6	4238.2	3967.8	3700.0	3719.9
65°	3281.1	3330.1	3629.7	4202.4	4878.5	5723.0	5221.9	4441.1	3894.9	3548.9	3510.4
67.5°	2827.7	2864.8	3245.3	3849.8	5049.6	6404.4	5487.0	4154.7	3434.9	2986.8	3010.6
70°	1970.0	1988.5	2361.1	3153.8	4578.9	6043.8	4950.1	3190.9	2371.7	1890.4	1916.9
72.5°	792.8	837.8	1083.1	1899.7	3380.5	4592.2	3332.8	1674.3	983.7	731.8	664.2
75°	293.0	294.3	346.0	653.6	1605.4	2886.0	1503.3	538.2	314.2	257.2	245.3
77.5°	169.7	168.4	180.3	236.0	465.3	1126.8	426.9	210.8	171.0	153.8	147.2
80°	106.1	104.7	123.3	156.4	204.2	308.9	180.3	131.2	115.3	99.4	99.4
82.5°	67.6	68.9	96.8	115.3	124.6	136.5	104.7	92.8	86.2	57.0	55.7
85°	43.7	39.8	67.6	76.9	68.9	61.0	58.3	49.1	45.1	27.8	30.5
87.5°	19.9	21.2	34.5	38.4	25.2	14.6	14.6	10.6	10.6	6.6	6.6
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)