

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: P476538

Luminaire Tested: **IFLD-M-SA4A-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476538
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

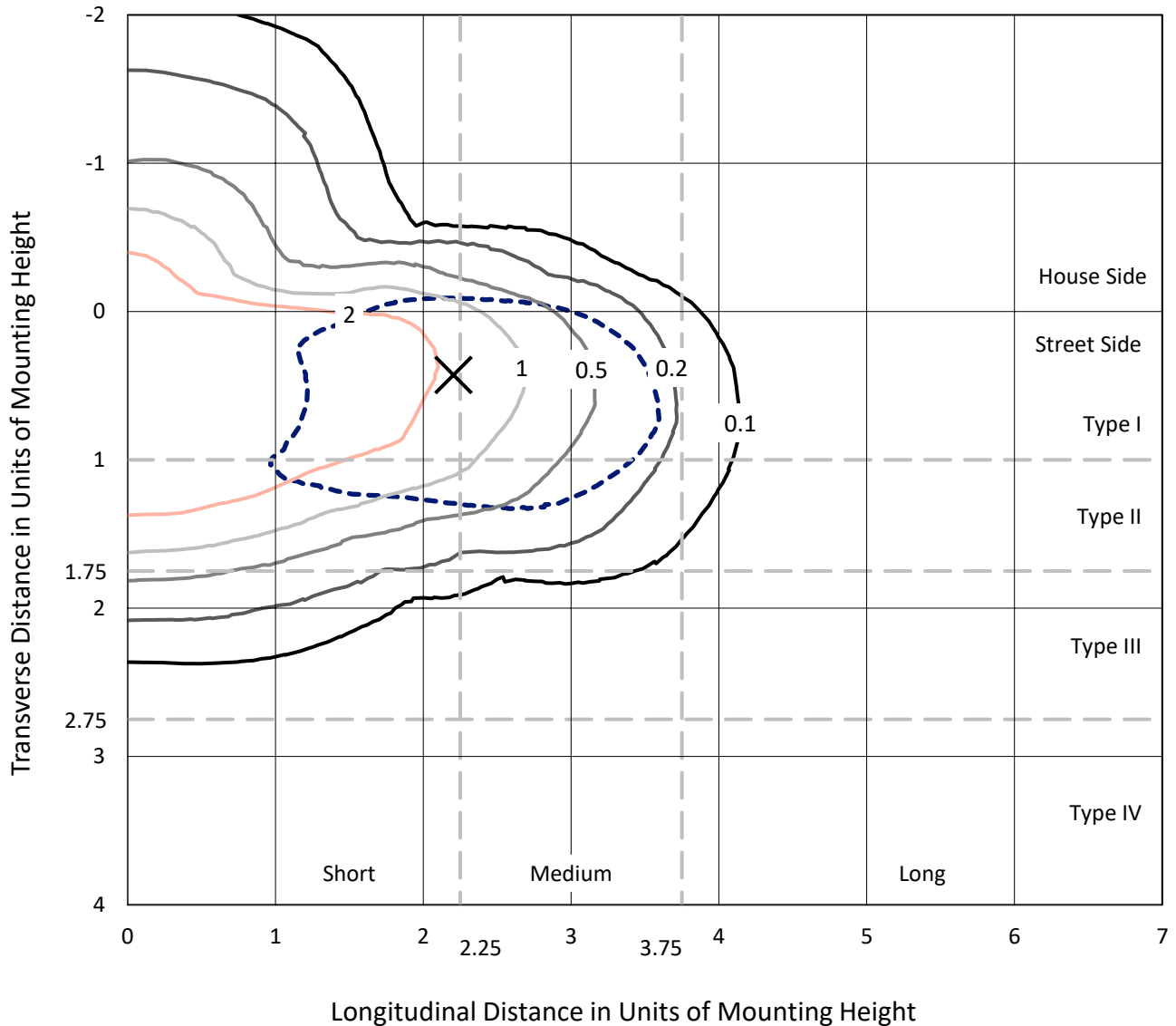
Lumens per Lamp: N/A
Luminaire Lumens: 16796.1 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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: P476538
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

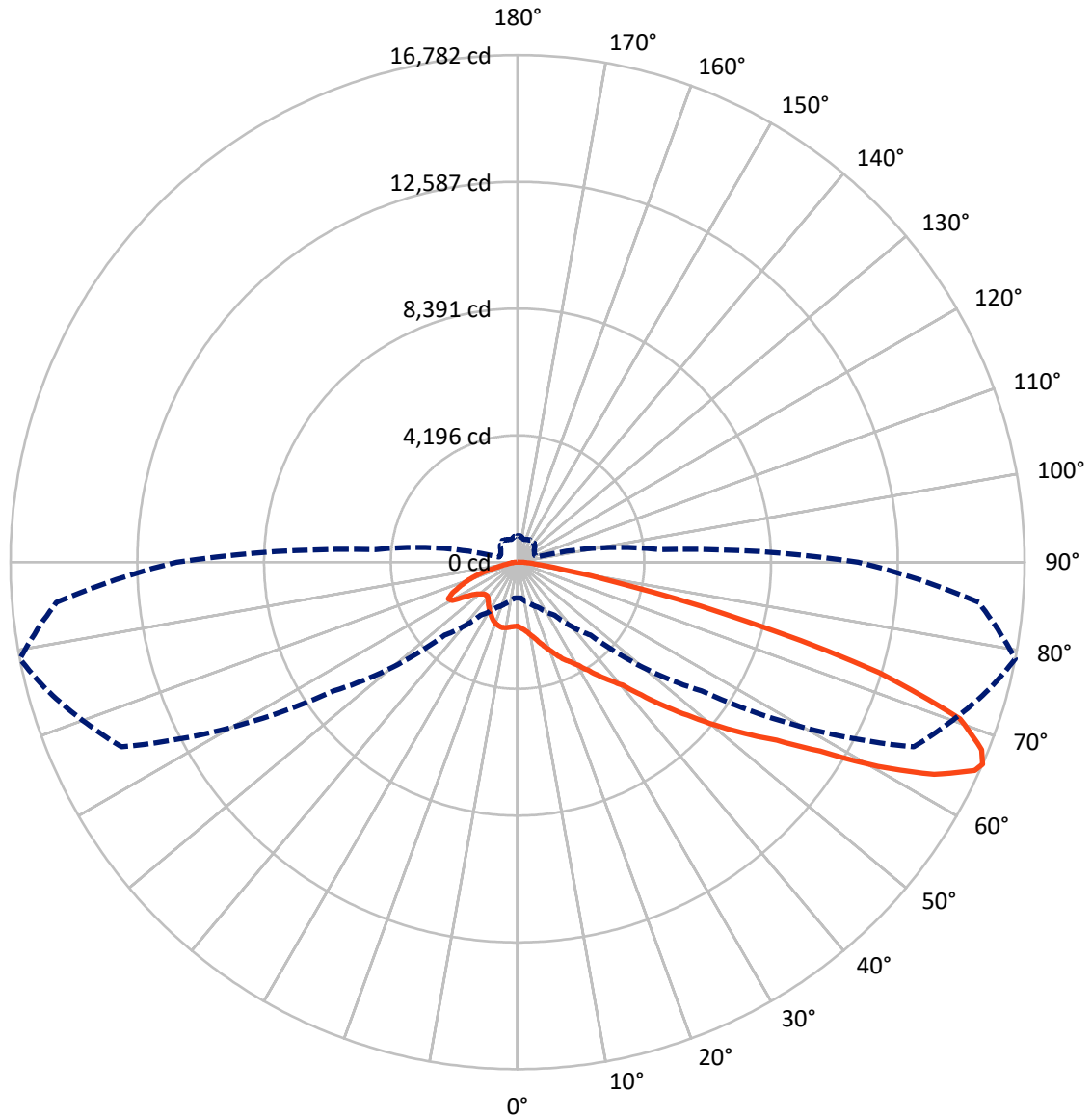
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

REPORT NUMBER: P476538
CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476538
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3391.7	0.0	3391.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13404.3	0.0	13404.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	16796.1	0.0	16796.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	1.2
10°-20°	644.0	3.8
20°-30°	1105.4	6.6
30°-40°	1707.6	10.2
40°-50°	2735.2	16.3
50°-60°	4083.9	24.3
60°-70°	4196.2	25.0
70°-80°	1860.1	11.1
80°-90°	255.2	1.5
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°	16796.1	100.0
0°-180°	16796.1	100.0



REPORT NUMBER: P476538

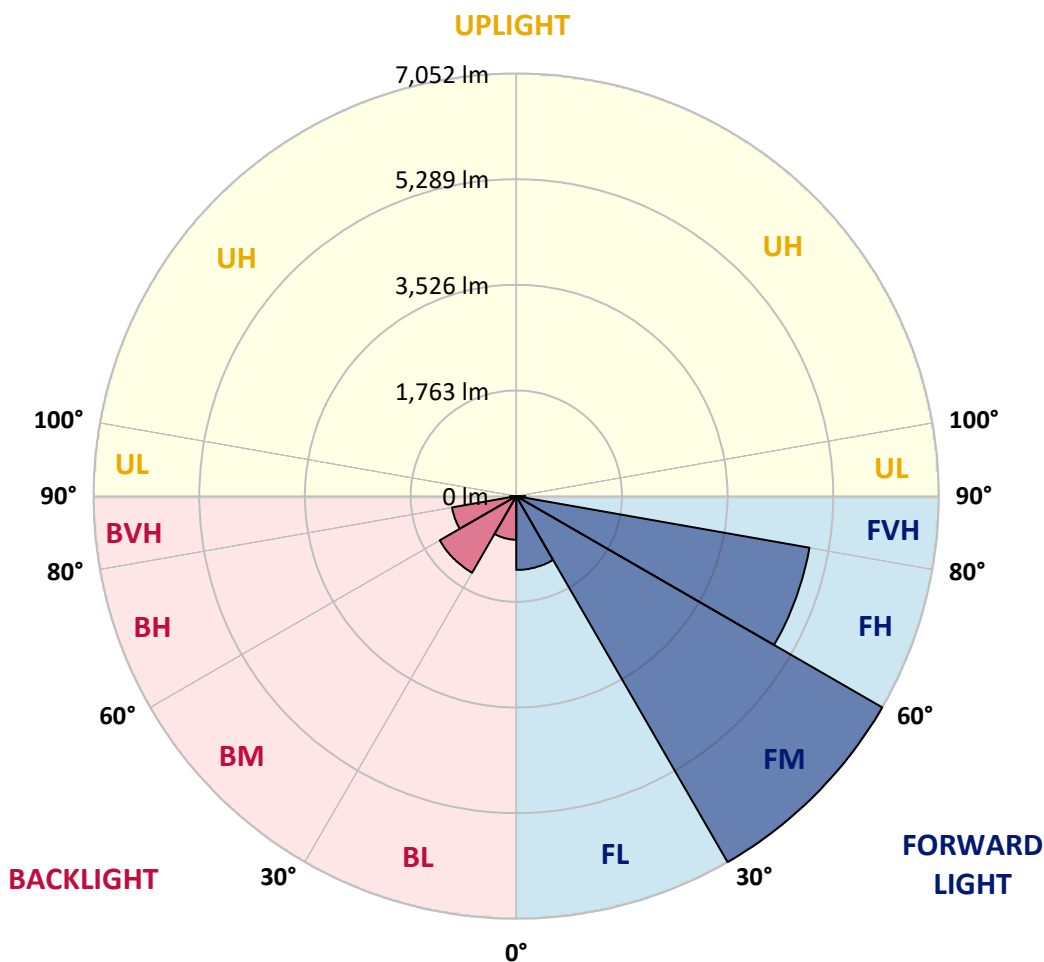
CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.3	7.3			
FM (30°-60°)	7052.1	42.0			
FH (60°-80°)	4967.9	29.6			G2/5000
FVH (80°-90°)	153.1	0.9			G2/225
BL (0°-30°)	726.7	4.3	B2/1000		
BM (30°-60°)	1474.6	8.8	B2/2500		
BH (60°-80°)	1088.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P476538

CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9
2.5°	2255.7	2257.6	2257.6	2250.2	2252.0	2257.6	2237.3	2192.9	2192.9	2185.5	2172.6
5°	2394.3	2385.1	2372.1	2374.0	2366.6	2366.6	2344.4	2301.9	2265.0	2250.2	2211.4
7.5°	2412.8	2422.0	2420.2	2442.3	2453.4	2453.4	2464.5	2429.4	2374.0	2338.9	2300.1
10°	2449.7	2425.7	2423.9	2475.6	2492.2	2531.0	2575.4	2556.9	2510.7	2460.8	2409.1
12.5°	2471.9	2486.7	2486.7	2512.5	2551.3	2608.6	2686.2	2721.3	2649.3	2597.5	2518.1
15°	2505.2	2484.8	2543.9	2566.1	2640.0	2680.7	2791.5	2882.0	2834.0	2771.2	2645.6
17.5°	2519.9	2507.0	2540.3	2580.9	2706.5	2767.5	2902.4	3028.0	2987.3	2946.7	2817.4
20°	2595.7	2593.8	2608.6	2641.9	2732.4	2852.5	3020.6	3194.3	3209.0	3135.1	2959.6
22.5°	2780.4	2756.4	2756.4	2743.5	2782.3	2906.0	3133.3	3373.5	3440.0	3353.1	3120.4
25°	2950.4	2983.6	2963.3	2904.2	2889.4	2954.1	3214.6	3563.7	3652.4	3571.1	3338.4
27.5°	3168.4	3179.5	3214.6	3135.1	3033.5	3053.8	3303.3	3670.9	3853.8	3744.8	3462.1
30°	3482.5	3462.1	3454.7	3366.1	3233.0	3205.3	3404.9	3827.9	4118.0	3964.6	3608.1
32.5°	3694.9	3744.8	3742.9	3621.0	3460.3	3399.3	3530.5	3975.7	4400.6	4258.4	3877.8
35°	4116.1	4167.9	4127.2	3948.0	3759.6	3637.6	3711.5	4167.9	4723.9	4613.1	4106.9
37.5°	4653.7	4775.7	4688.8	4358.2	4092.1	3959.1	3962.8	4376.6	5054.6	4964.1	4352.6
40°	5025.1	5189.5	5069.4	4759.0	4476.4	4350.8	4300.9	4624.2	5450.0	5353.9	4736.9
42.5°	5485.1	5621.8	5559.0	5252.3	4921.6	4814.5	4714.7	5038.0	6054.1	6009.8	5230.1
45°	5987.6	6052.3	6031.9	5838.0	5470.3	5433.4	5213.5	5583.0	6765.4	6783.9	5847.2
47.5°	6455.0	6490.1	6528.9	6388.5	6159.4	6190.8	5788.1	6166.8	7456.3	7578.3	6534.5
50°	6575.1	6695.2	6785.7	6879.9	6929.8	7142.3	6421.8	6883.6	8250.7	8487.2	7299.3
52.5°	6453.2	6443.9	6719.2	7014.8	7513.6	7958.8	7284.5	7774.1	8952.8	9420.2	7999.5
55°	5898.9	5880.5	6323.8	6715.5	7689.1	8413.3	8516.8	8960.2	9800.8	10408.6	8947.2
57.5°	4929.0	4814.5	5298.5	5941.4	7308.5	8463.2	9754.6	10720.8	11105.1	11797.9	10393.8
60°	3312.5	3264.5	3728.2	4494.9	5934.0	7755.6	10495.4	12924.8	12943.3	13722.9	12638.5
62.5°	2039.6	2048.8	2346.3	2920.8	4154.9	6148.3	10175.8	14685.4	14689.1	15470.6	14485.9
65°	1333.9	1339.4	1579.6	1897.3	2595.7	4169.7	8415.2	14824.0	15902.9	16629.0	15332.0
66°	1187.9	1189.8	1396.7	1655.3	2150.4	3412.3	7432.3	14463.7	16176.3	16782.3	15321.0
67.5°	1001.3	1025.3	1191.6	1391.1	1677.5	2451.6	5897.1	13421.8	16035.9	16568.0	14973.6
70°	783.3	796.3	927.4	1130.6	1258.1	1418.8	3504.6	10940.6	14678.0	15540.8	13710.0
72.5°	628.1	639.2	739.0	918.2	1021.6	934.8	1908.4	7938.5	11594.6	12514.7	10783.6
75°	530.2	532.1	580.1	722.4	840.6	702.0	1016.1	5095.3	7439.7	7868.3	6606.5
77.5°	428.6	436.0	469.3	550.5	676.2	552.4	606.0	2854.3	3735.6	3767.0	3053.8
80°	349.2	352.9	373.2	400.9	515.4	408.3	410.1	1393.0	1601.7	1564.8	1241.5
82.5°	275.3	279.0	303.0	297.4	378.7	291.9	254.9	670.6	737.1	722.4	570.9
85°	155.2	155.2	238.3	238.3	240.2	184.7	155.2	315.9	389.8	363.9	267.9
87.5°	49.9	51.7	72.1	75.7	120.1	83.1	75.7	118.2	184.7	162.6	96.1
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: P476538
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9	2120.9
2.5°	2165.2	2135.7	2122.7	2080.2	2069.2	2041.4	2028.5	2011.9	2006.3	1982.3	2004.5
5°	2181.8	2172.6	2120.9	2067.3	2026.7	2008.2	1980.5	1943.5	1939.8	1906.6	1902.9
7.5°	2252.0	2220.6	2130.1	2072.8	1991.6	1945.4	1884.4	1865.9	1841.9	1830.8	1854.8
10°	2361.0	2281.6	2146.7	2002.6	1902.9	1847.5	1803.1	1790.2	1792.0	1784.6	1773.6
12.5°	2438.6	2362.9	2119.0	1943.5	1814.2	1760.6	1756.9	1769.9	1790.2	1780.9	1793.9
15°	2549.5	2407.2	2098.7	1845.6	1742.2	1727.4	1725.5	1764.3	1762.5	1762.5	1760.6
17.5°	2652.9	2451.6	2024.8	1760.6	1666.4	1677.5	1690.4	1688.6	1707.0	1714.4	1727.4
20°	2784.1	2503.3	1921.4	1675.6	1609.1	1605.4	1603.6	1605.4	1623.9	1635.0	1625.8
22.5°	2898.7	2514.4	1834.5	1594.4	1540.8	1526.0	1502.0	1526.0	1516.8	1520.5	1531.5
25°	2998.4	2516.2	1710.7	1533.4	1472.4	1439.2	1420.7	1418.8	1402.2	1400.4	1400.4
27.5°	3081.6	2453.4	1601.7	1448.4	1391.1	1359.7	1357.9	1337.6	1295.1	1267.4	1271.1
30°	3146.2	2405.4	1526.0	1374.5	1319.1	1313.5	1296.9	1250.7	1195.3	1160.2	1160.2
32.5°	3260.8	2309.3	1422.5	1298.8	1271.1	1263.7	1224.9	1184.2	1132.5	1099.2	1093.7
35°	3345.7	2220.6	1354.2	1234.1	1221.2	1206.4	1173.1	1128.8	1114.0	1106.6	1112.2
37.5°	3441.8	2120.9	1271.1	1178.7	1191.6	1163.9	1125.1	1104.8	1156.5	1143.6	1149.1
40°	3595.2	2050.7	1189.8	1145.4	1158.4	1126.9	1077.1	1069.7	1134.3	1088.2	1077.1
42.5°	3876.0	2048.8	1139.9	1095.5	1104.8	1080.8	1036.4	1032.7	1058.6	1003.2	986.5
45°	4225.1	2113.5	1102.9	1058.6	1051.2	1047.5	1032.7	1016.1	993.9	921.9	903.4
47.5°	4642.7	2218.8	1095.5	1003.2	1012.4	1043.8	1025.3	982.8	925.6	879.4	870.2
50°	5148.9	2436.8	1077.1	962.5	979.2	1029.0	1014.3	955.1	903.4	873.8	868.3
52.5°	5708.6	2712.1	1053.1	899.7	936.7	1016.1	1023.5	968.1	892.3	866.5	862.8
55°	6368.2	3118.5	1025.3	831.4	886.8	1003.2	1023.5	931.1	877.5	877.5	873.8
57.5°	7670.6	3850.1	968.1	768.5	842.4	979.2	993.9	933.0	879.4	879.4	872.0
60°	9580.9	4991.8	859.1	720.5	799.9	945.9	971.8	905.3	859.1	870.2	868.3
62.5°	11075.5	5339.1	766.7	674.3	757.5	884.9	942.2	875.7	835.1	875.7	879.4
65°	11395.1	4988.1	672.5	624.4	698.3	825.8	899.7	833.2	799.9	879.4	883.1
66°	11280.6	4714.7	639.2	609.7	672.5	796.3	873.8	818.4	781.5	875.7	877.5
67.5°	10770.7	4304.6	602.3	578.3	637.4	753.8	844.3	798.1	751.9	864.6	848.0
70°	9662.2	3650.6	539.5	522.8	587.5	683.6	775.9	746.4	705.7	796.3	766.7
72.5°	7441.6	2917.1	472.9	474.8	530.2	611.5	707.6	687.3	652.2	698.3	679.9
75°	4531.8	1864.1	412.0	415.7	461.9	543.2	642.9	628.1	585.6	611.5	602.3
77.5°	2008.2	923.7	347.3	354.7	391.7	478.5	559.8	535.8	491.4	497.0	493.3
80°	779.6	437.8	282.7	291.9	315.9	382.4	463.7	441.5	402.7	395.4	391.7
82.5°	375.0	243.9	218.0	221.7	230.9	304.8	399.1	371.3	319.6	286.4	286.4
85°	188.4	151.5	153.3	140.4	153.3	206.9	269.7	225.4	186.6	166.3	170.0
87.5°	75.7	75.7	75.7	64.7	68.4	97.9	125.6	85.0	77.6	46.2	46.2
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)