

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: P478177

Luminaire Tested: **IFLD-M-SA4B-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478177
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

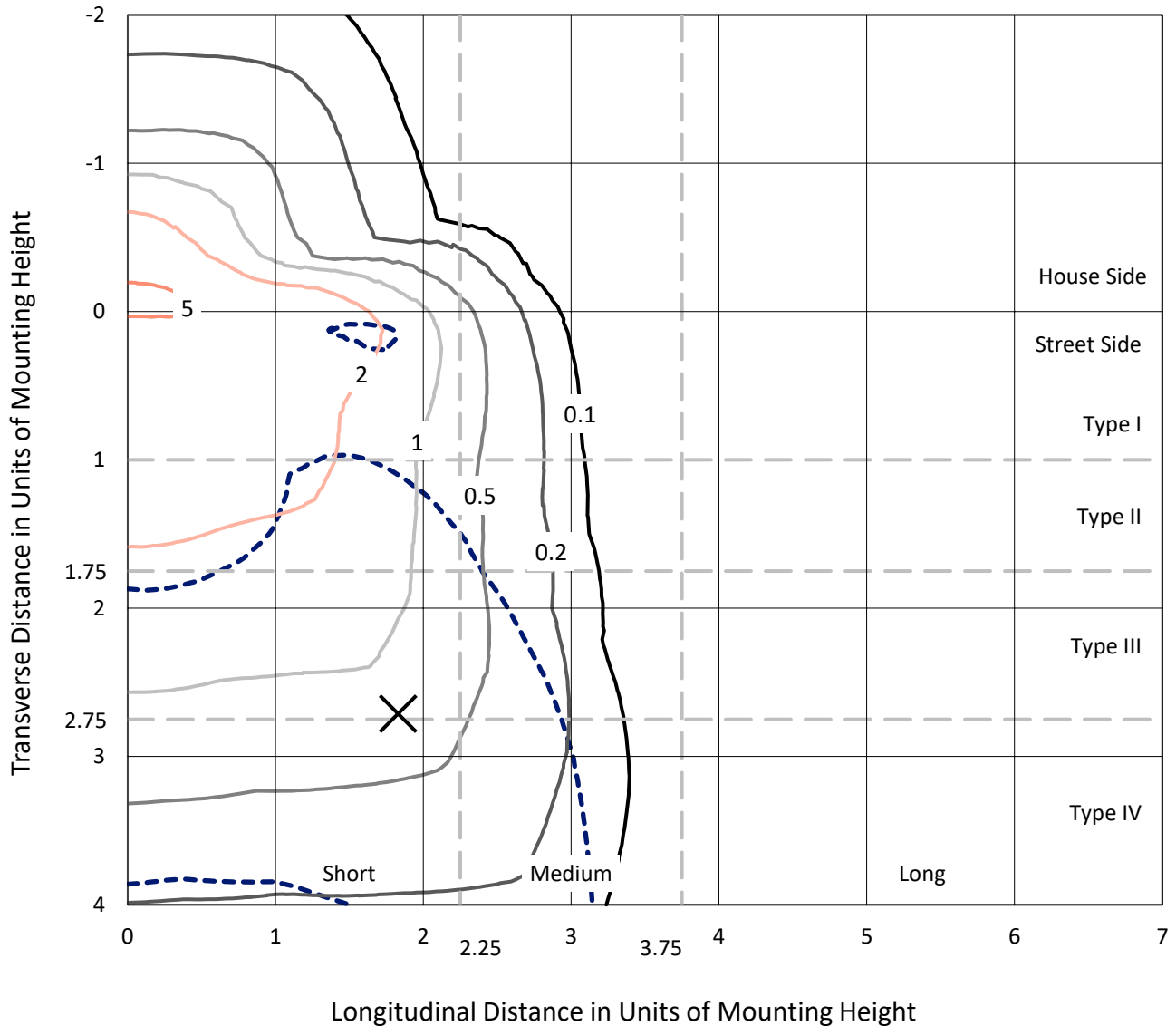
Lumens per Lamp: N/A
Luminaire Lumens: 23398.8 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

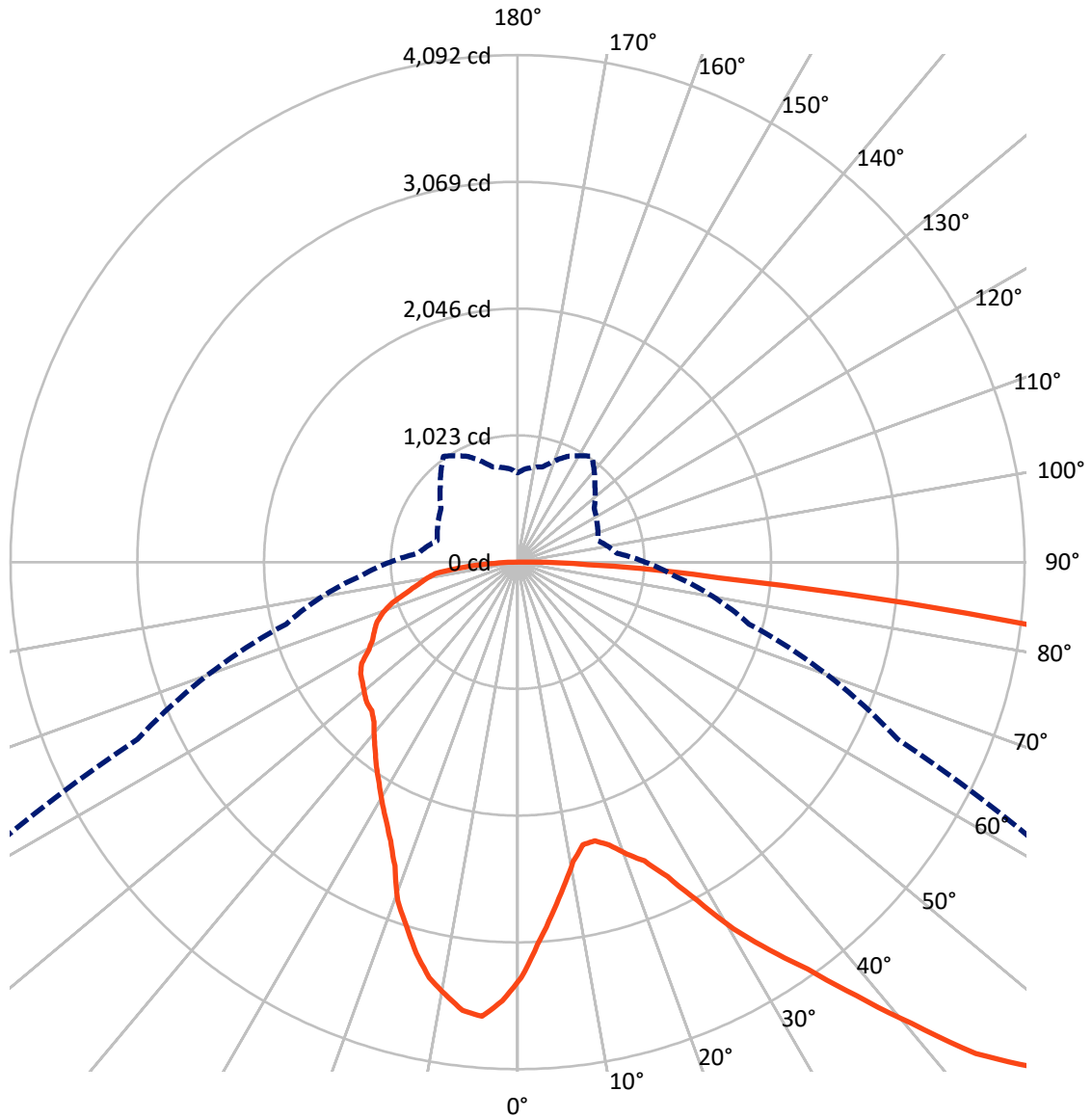
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	5054.4	0.0	5054.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	18344.4	0.0	18344.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	23398.8	0.0	23398.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	1.3
10°-20°	866.5	3.7
20°-30°	1426.1	6.1
30°-40°	2132.7	9.1
40°-50°	3161.7	13.5
50°-60°	4556.3	19.5
60°-70°	5814.4	24.8
70°-80°	4524.6	19.3
80°-90°	607.0	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°	23398.8	100.0
0°-180°	23398.8	100.0

Coefficient of Utilization



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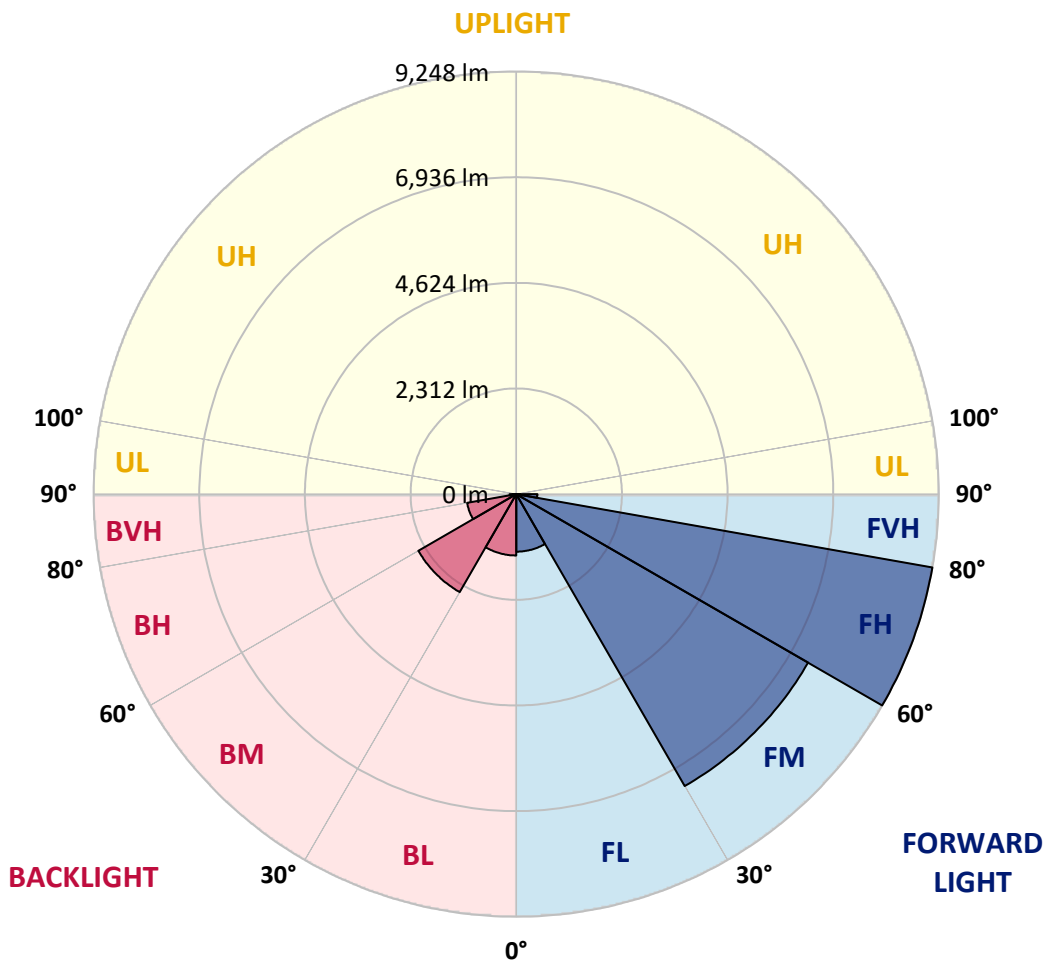
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.3	5.4			
FM (30°-60°)	7375.5	31.5			
FH (60°-80°)	9247.6	39.5			G4/12000
FVH (80°-90°)	462.0	2.0			G3/500
BL (0°-30°)	1342.9	5.7	B3/2500		
BM (30°-60°)	2475.2	10.6	B2/2500		
BH (60°-80°)	1091.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	3005.8	3015.7	3047.8	3055.2	3089.9	3070.1	3112.1	3186.4	3228.4	3290.3	3364.5
5°	2768.3	2726.2	2746.0	2822.7	2862.3	2872.2	2916.7	3042.9	3122.0	3213.6	3352.1
7.5°	2488.7	2481.3	2520.9	2570.4	2649.5	2657.0	2755.9	2867.2	3030.5	3233.4	3396.6
10°	2298.2	2330.4	2352.7	2404.6	2459.0	2459.0	2585.2	2778.2	2963.7	3159.2	3406.5
12.5°	2288.3	2268.6	2273.5	2300.7	2340.3	2389.8	2508.5	2681.7	2916.7	3144.3	3448.6
15°	2320.5	2327.9	2283.4	2318.0	2332.9	2350.2	2481.3	2676.7	2887.0	3196.3	3520.3
17.5°	2491.2	2449.1	2379.9	2347.7	2399.7	2399.7	2488.7	2642.1	2892.0	3223.5	3624.2
20°	2624.8	2624.8	2511.0	2476.4	2513.5	2506.0	2567.9	2681.7	2916.7	3277.9	3740.5
22.5°	2849.9	2882.1	2694.1	2622.3	2619.8	2639.6	2694.1	2790.5	2986.0	3354.6	3851.8
25°	3174.0	3181.4	2963.7	2889.5	2810.3	2842.5	2852.4	2948.9	3047.8	3443.6	3978.0
27.5°	3535.2	3530.2	3329.8	3144.3	3092.4	3099.8	3045.4	3109.7	3139.4	3470.9	4158.6
30°	3936.0	3891.4	3740.5	3478.3	3436.2	3389.2	3270.5	3268.0	3329.8	3624.2	4408.5
32.5°	4198.2	4141.3	4037.4	3849.4	3733.1	3738.0	3550.0	3547.6	3493.1	3792.5	4626.2
35°	4455.5	4368.9	4341.7	4148.7	4032.4	4044.8	3893.9	3874.1	3775.1	4047.3	4984.9
37.5°	4764.7	4688.0	4730.1	4584.1	4440.6	4381.2	4312.0	4287.2	4158.6	4406.0	5474.7
40°	5106.1	5081.4	5054.1	4982.4	4895.8	4900.8	4826.5	4801.8	4611.3	4838.9	5944.7
42.5°	5566.2	5472.2	5331.2	5378.2	5422.8	5469.8	5445.0	5380.7	5182.8	5279.3	6469.2
45°	5994.2	5870.5	5610.8	5625.6	5808.7	5845.8	6145.1	6137.7	5739.4	5838.4	7065.4
47.5°	6283.7	6226.8	6070.9	6053.6	6315.8	6313.4	6852.7	6852.7	6325.7	6395.0	7706.2
50°	6714.1	6565.7	6498.9	6585.5	6719.1	6810.6	7575.0	7622.0	6902.1	6976.4	8544.8
52.5°	7218.8	7033.3	6865.0	7087.7	7325.2	7384.5	8290.0	8270.2	7345.0	7651.7	9526.9
55°	7636.9	7542.9	7426.6	7555.2	7943.6	8017.9	9007.4	8824.3	7787.8	8210.8	9999.4
57.5°	8124.2	8181.1	8205.9	8173.7	8636.3	8752.6	9826.3	9301.8	8168.8	8586.9	10276.5
60°	8859.0	8893.6	8925.8	9002.5	9492.3	9655.6	10474.4	9900.5	8408.7	8804.6	10298.8
62.5°	9977.2	9843.6	9915.3	10180.0	10573.4	10758.9	11429.3	10321.0	8591.8	8935.7	9571.5
65°	11256.2	11075.6	11001.4	11342.8	12362.0	12213.6	12621.8	10635.2	8327.1	8445.8	8116.8
67.5°	12552.5	12572.3	12381.8	13067.1	14316.4	14316.4	13730.1	10786.1	7609.7	6845.2	5692.4
70°	13581.6	13643.5	13747.4	15075.9	17055.0	17354.3	15103.1	10167.7	6147.6	4556.9	3112.1
72.5°	13566.8	13381.2	13913.1	16359.8	19543.7	19293.8	15390.0	8040.1	3837.0	2231.4	1427.4
73°	13262.5	13106.6	13688.0	16347.4	19645.1	19410.1	15179.8	7411.8	3384.3	1934.6	1269.1
75°	10830.7	10548.6	11538.2	14806.2	18175.6	18356.2	12896.4	4834.0	1855.4	1192.4	893.1
77.5°	4937.9	5061.6	6350.5	9932.6	14007.1	14219.9	8478.0	2090.4	1016.8	836.2	658.1
80°	1585.8	1664.9	2471.4	4937.9	8779.8	9163.3	3918.6	950.0	724.8	640.7	492.3
82.5°	606.1	603.6	1036.6	2053.3	4161.1	4406.0	1432.4	578.9	539.3	472.5	348.8
85°	212.8	222.6	390.9	811.4	1637.7	1714.4	497.3	321.6	373.6	316.7	200.4
87.5°	74.2	76.7	138.5	294.4	564.0	596.2	138.5	128.6	185.5	183.1	101.4
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°	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6	3354.6
2.5°	3389.2	3411.5	3418.9	3508.0	3508.0	3508.0	3542.6	3542.6	3532.7	3508.0	3567.3
5°	3404.1	3443.6	3520.3	3597.0	3616.8	3634.1	3681.1	3641.6	3656.4	3631.7	3653.9
7.5°	3446.1	3500.5	3644.0	3691.0	3658.9	3696.0	3646.5	3619.3	3592.1	3602.0	3567.3
10°	3517.9	3587.1	3653.9	3740.5	3678.7	3641.6	3540.1	3515.4	3428.8	3399.1	3426.3
12.5°	3606.9	3691.0	3804.8	3772.7	3653.9	3547.6	3438.7	3334.8	3282.8	3208.6	3228.4
15°	3696.0	3792.5	3809.8	3755.4	3606.9	3473.3	3275.4	3129.5	3077.5	3010.7	3045.4
17.5°	3792.5	3884.0	3854.3	3713.3	3512.9	3310.1	3084.9	2941.4	2832.6	2790.5	2790.5
20°	3936.0	3980.5	3933.5	3644.0	3399.1	3131.9	2914.2	2751.0	2642.1	2624.8	2597.6
22.5°	4047.3	4119.0	3908.7	3542.6	3233.4	2899.4	2649.5	2587.7	2555.5	2528.3	2493.7
25°	4190.8	4188.3	3864.2	3448.6	2948.9	2622.3	2471.4	2466.5	2451.6	2441.7	2488.7
27.5°	4326.8	4269.9	3812.3	3216.0	2654.5	2412.0	2330.4	2384.8	2407.1	2392.2	2412.0
30°	4542.1	4448.0	3738.0	2968.7	2394.7	2199.3	2214.1	2288.3	2325.5	2347.7	2318.0
32.5°	4769.6	4626.2	3584.7	2711.4	2164.6	2065.7	2100.3	2177.0	2221.5	2246.3	2273.5
35°	5098.7	4764.7	3428.8	2374.9	1998.9	1984.1	2003.8	2045.9	2110.2	2127.5	2135.0
37.5°	5504.4	4975.0	3218.5	2105.3	1870.3	1887.6	1907.4	1922.2	1924.7	1956.8	1944.5
40°	5910.1	5153.1	2911.8	1848.0	1736.7	1830.7	1820.8	1793.6	1771.3	1741.6	1734.2
42.5°	6266.3	5309.0	2570.4	1630.3	1617.9	1771.3	1739.1	1669.9	1617.9	1595.7	1558.5
45°	6667.1	5529.1	2226.5	1494.2	1526.4	1699.6	1689.7	1583.3	1516.5	1437.3	1427.4
47.5°	7186.6	5759.2	1897.5	1353.2	1439.8	1672.3	1677.3	1541.2	1444.7	1338.4	1323.5
50°	7852.1	6090.7	1647.6	1293.8	1387.8	1632.8	1640.2	1484.3	1358.2	1249.3	1239.4
52.5°	8490.4	6429.6	1439.8	1202.3	1353.2	1585.8	1603.1	1432.4	1286.4	1150.4	1157.8
55°	8812.0	6305.9	1261.7	1135.5	1274.1	1509.1	1573.4	1395.3	1177.6	1083.6	1081.1
57.5°	8883.7	6001.6	1120.7	1066.2	1207.3	1427.4	1523.9	1283.9	1128.1	1048.9	1039.0
60°	8648.7	5469.8	1009.3	992.0	1123.1	1343.3	1410.1	1224.6	1078.6	1014.3	999.4
62.5°	8069.8	4918.1	932.7	957.4	1051.4	1251.8	1338.4	1182.5	1031.6	987.1	954.9
65°	6617.6	4044.8	870.8	890.6	977.2	1162.7	1293.8	1135.5	989.6	947.5	945.0
67.5°	4584.1	2788.1	821.3	858.4	917.8	1098.4	1249.3	1083.6	935.1	920.3	900.5
70°	2347.7	1486.8	757.0	786.7	853.5	1016.8	1170.1	1029.1	878.2	875.8	851.0
72.5°	1189.9	870.8	682.8	727.3	774.3	910.4	1071.2	957.4	806.5	779.3	739.7
73°	1029.1	806.5	670.4	710.0	754.5	880.7	1041.5	940.1	796.6	757.0	719.9
75°	749.6	635.8	601.2	640.7	675.4	794.1	942.6	860.9	732.3	690.2	655.6
77.5°	561.6	489.8	499.7	544.3	573.9	685.3	838.6	779.3	663.0	606.1	591.3
80°	413.1	373.6	413.1	455.2	477.5	603.6	764.4	675.4	559.1	494.8	482.4
82.5°	294.4	272.1	319.1	346.3	356.2	499.7	687.7	539.3	423.0	338.9	311.7
85°	168.2	165.8	215.2	212.8	220.2	291.9	452.7	358.7	272.1	207.8	202.9
87.5°	74.2	81.6	108.9	86.6	91.5	138.5	193.0	133.6	111.3	61.8	47.0
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)