

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: P478022

Luminaire Tested: **IFLD-M-SA4C-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

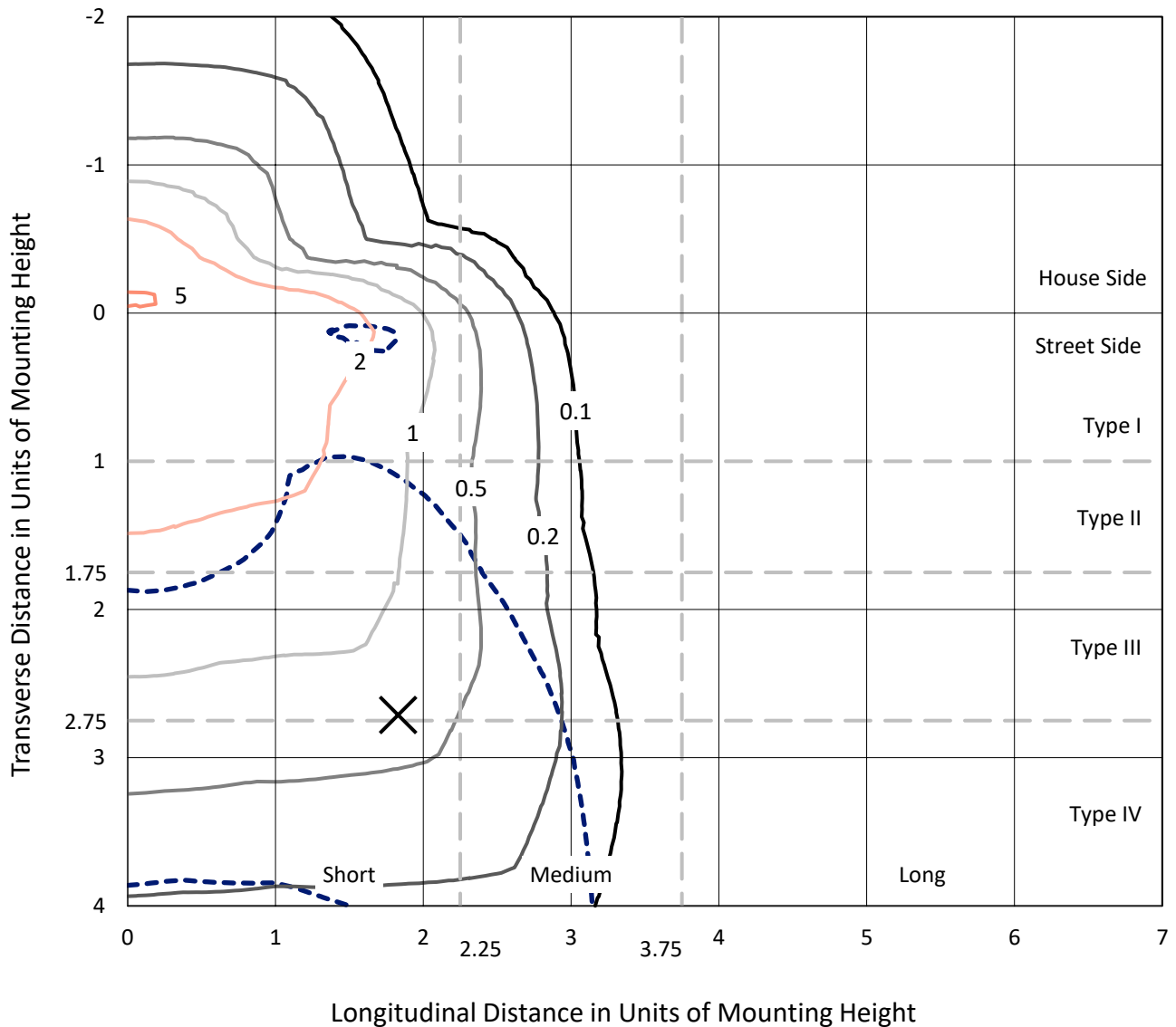
Lumens per Lamp: N/A
Luminaire Lumens: 21455.7 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

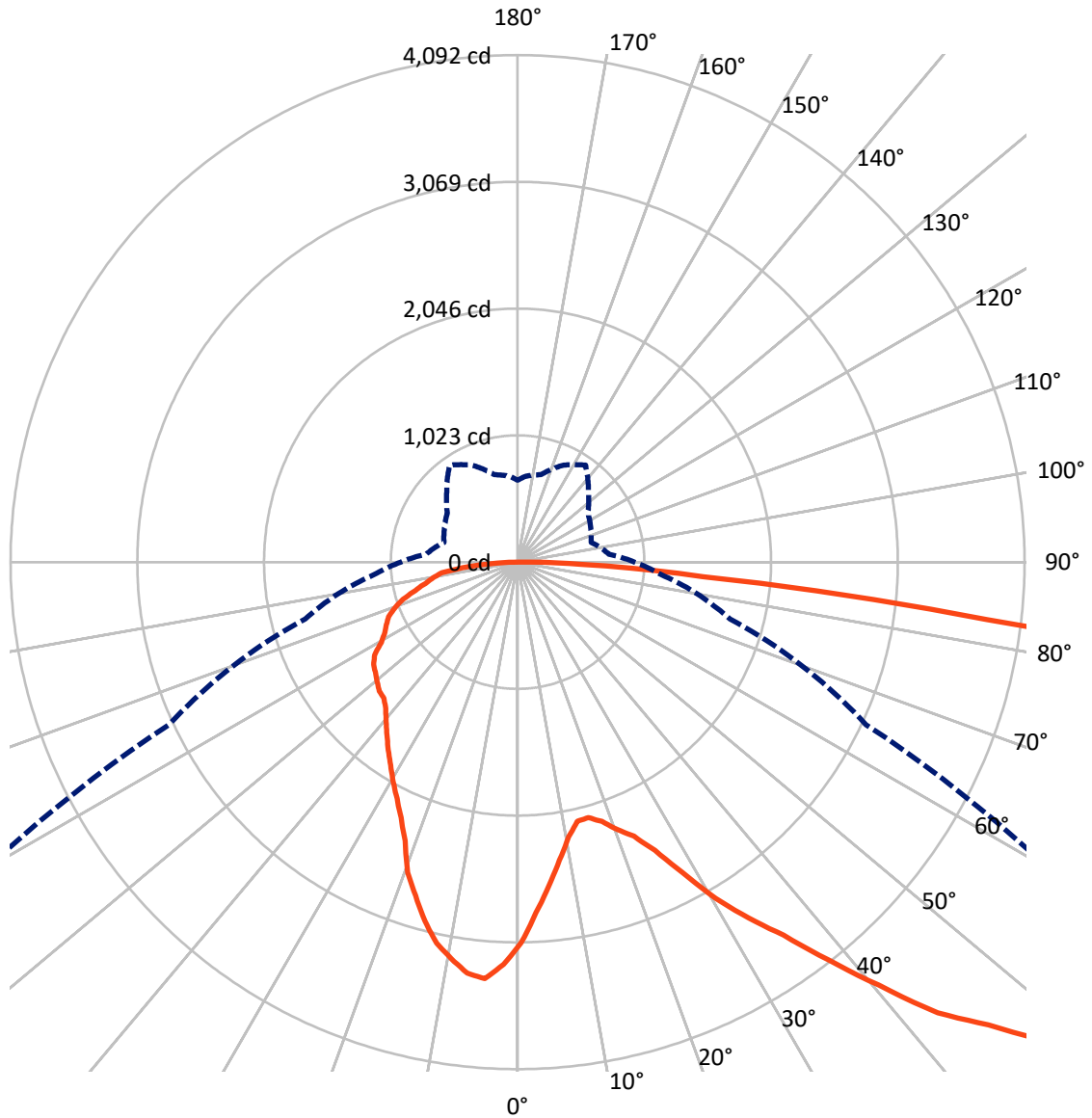
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4634.7	0.0	4634.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16821.0	0.0	16821.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	21455.7	0.0	21455.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	1.3
10°-20°	794.5	3.7
20°-30°	1307.7	6.1
30°-40°	1955.6	9.1
40°-50°	2899.1	13.5
50°-60°	4177.9	19.5
60°-70°	5331.6	24.8
70°-80°	4148.8	19.3
80°-90°	556.6	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°	21455.7	100.0
0°-180°	21455.7	100.0

Coefficient of Utilization



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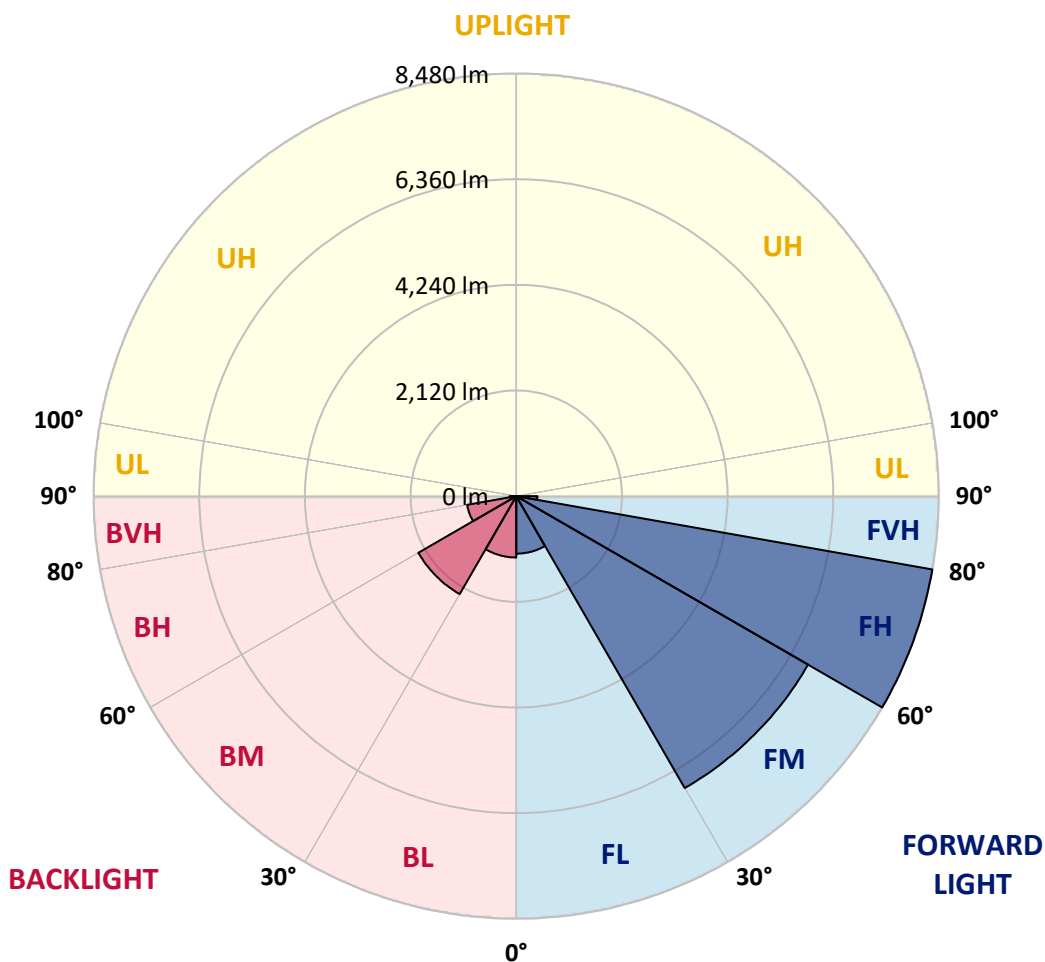
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.7	5.4			
FM (30°-60°)	6763.0	31.5			
FH (60°-80°)	8479.7	39.5			G4/12000
FVH (80°-90°)	423.7	2.0			G3/500
BL (0°-30°)	1231.4	5.7	B3/2500		
BM (30°-60°)	2269.6	10.6	B2/2500		
BH (60°-80°)	1000.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.9	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°	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0
2.5°	2756.2	2765.2	2794.7	2801.5	2833.3	2815.1	2853.7	2921.8	2960.3	3017.0	3085.1
5°	2538.4	2499.8	2518.0	2588.3	2624.6	2633.7	2674.5	2790.2	2862.8	2946.7	3073.7
7.5°	2282.1	2275.2	2311.5	2356.9	2429.5	2436.3	2527.0	2629.1	2778.8	2964.9	3114.6
10°	2107.4	2136.9	2157.3	2204.9	2254.8	2254.8	2370.5	2547.5	2717.6	2896.8	3123.6
12.5°	2098.3	2080.2	2084.7	2109.7	2145.9	2191.3	2300.2	2459.0	2674.5	2883.2	3162.2
15°	2127.8	2134.6	2093.8	2125.5	2139.1	2155.0	2275.2	2454.5	2647.3	2930.8	3228.0
17.5°	2284.3	2245.8	2182.2	2152.8	2200.4	2200.4	2282.1	2422.7	2651.8	2955.8	3323.3
20°	2406.8	2406.8	2302.5	2270.7	2304.7	2297.9	2354.6	2459.0	2674.5	3005.7	3429.9
22.5°	2613.2	2642.7	2470.3	2404.6	2402.3	2420.4	2470.3	2558.8	2738.0	3076.0	3532.0
25°	2910.4	2917.2	2717.6	2649.5	2577.0	2606.4	2615.5	2704.0	2794.7	3157.7	3647.7
27.5°	3241.6	3237.1	3053.3	2883.2	2835.6	2842.4	2792.5	2851.4	2878.7	3182.6	3813.3
30°	3609.1	3568.3	3429.9	3189.4	3150.9	3107.8	2998.9	2996.6	3053.3	3323.3	4042.4
32.5°	3849.6	3797.4	3702.1	3529.7	3423.1	3427.6	3255.2	3252.9	3203.0	3477.5	4242.0
35°	4085.5	4006.1	3981.1	3804.2	3697.6	3708.9	3570.5	3552.4	3461.6	3711.2	4570.9
37.5°	4369.0	4298.7	4337.3	4203.4	4071.9	4017.4	3953.9	3931.2	3813.3	4040.1	5020.1
40°	4682.1	4659.4	4634.4	4568.6	4489.3	4493.8	4425.7	4403.1	4228.4	4437.1	5451.1
42.5°	5104.0	5017.8	4888.5	4931.6	4972.4	5015.5	4992.8	4933.9	4752.4	4840.9	5932.0
45°	5496.4	5383.0	5144.8	5158.4	5326.3	5360.3	5634.8	5628.0	5262.8	5353.5	6478.7
47.5°	5761.8	5709.7	5566.8	5550.9	5791.3	5789.1	6283.6	6283.6	5800.4	5863.9	7066.2
50°	6156.6	6020.5	5959.2	6038.6	6161.1	6245.0	6946.0	6989.1	6329.0	6397.0	7835.2
52.5°	6619.3	6449.2	6294.9	6499.1	6716.9	6771.3	7601.6	7583.4	6735.0	7016.3	8735.8
55°	7002.7	6916.5	6809.9	6927.8	7284.0	7352.0	8259.4	8091.5	7141.1	7529.0	9169.1
57.5°	7449.6	7501.7	7524.4	7494.9	7919.1	8025.8	9010.3	8529.4	7490.4	7873.8	9423.1
60°	8123.3	8155.1	8184.5	8254.9	8704.0	8853.7	9604.6	9078.3	7710.4	8073.4	9443.5
62.5°	9148.6	9026.1	9091.9	9334.6	9695.3	9865.5	10480.2	9464.0	7878.3	8193.6	8776.6
65°	10321.4	10155.8	10087.8	10400.8	11335.4	11199.3	11573.6	9752.0	7635.6	7744.5	7442.8
67.5°	11510.1	11528.2	11353.6	11981.9	13127.5	13127.5	12589.9	9890.4	6977.7	6276.8	5219.7
70°	12453.8	12510.5	12605.7	13823.9	15638.7	15913.1	13848.9	9323.3	5637.1	4178.5	2853.7
72.5°	12440.1	12270.0	12757.7	15001.2	17920.7	17691.6	14112.0	7372.4	3518.4	2046.1	1308.9
73°	12161.1	12018.2	12551.3	14989.9	18013.7	17798.2	13919.2	6796.3	3103.2	1773.9	1163.7
75°	9931.3	9672.6	10580.0	13576.6	16666.3	16831.9	11825.4	4432.5	1701.3	1093.4	818.9
77.5°	4527.8	4641.2	5823.1	9107.8	12843.9	13039.0	7774.0	1916.8	932.3	766.7	603.4
80°	1454.1	1526.7	2266.2	4527.8	8050.7	8402.3	3593.2	871.1	664.7	587.5	451.4
82.5°	555.8	553.5	950.5	1882.8	3815.5	4040.1	1313.4	530.8	494.5	433.3	319.9
85°	195.1	204.2	358.4	744.0	1501.7	1572.0	456.0	294.9	342.5	290.4	183.7
87.5°	68.1	70.3	127.0	269.9	517.2	546.7	127.0	118.0	170.1	167.9	93.0
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°	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0	3076.0
2.5°	3107.8	3128.2	3135.0	3216.7	3216.7	3216.7	3248.4	3248.4	3239.3	3216.7	3271.1
5°	3121.4	3157.7	3228.0	3298.3	3316.5	3332.3	3375.4	3339.2	3352.8	3330.1	3350.5
7.5°	3159.9	3209.8	3341.4	3384.5	3355.0	3389.1	3343.7	3318.7	3293.8	3302.9	3271.1
10°	3225.7	3289.2	3350.5	3429.9	3373.2	3339.2	3246.1	3223.5	3144.1	3116.8	3141.8
12.5°	3307.4	3384.5	3488.9	3459.4	3350.5	3252.9	3153.1	3057.9	3010.2	2942.2	2960.3
15°	3389.1	3477.5	3493.4	3443.5	3307.4	3184.9	3003.4	2869.6	2821.9	2760.7	2792.5
17.5°	3477.5	3561.5	3534.2	3404.9	3221.2	3035.2	2828.8	2697.2	2597.4	2558.8	2558.8
20°	3609.1	3649.9	3606.8	3341.4	3116.8	2871.9	2672.2	2522.5	2422.7	2406.8	2381.9
22.5°	3711.2	3777.0	3584.1	3248.4	2964.9	2658.6	2429.5	2372.8	2343.3	2318.4	2286.6
25°	3842.7	3840.5	3543.3	3162.2	2704.0	2404.6	2266.2	2261.6	2248.0	2239.0	2282.1
27.5°	3967.5	3915.3	3495.7	2949.0	2434.0	2211.7	2136.9	2186.8	2207.2	2193.6	2211.7
30°	4164.9	4078.7	3427.6	2722.1	2195.9	2016.6	2030.3	2098.3	2132.3	2152.8	2125.5
32.5°	4373.6	4242.0	3287.0	2486.2	1984.9	1894.2	1925.9	1996.2	2037.1	2059.7	2084.7
35°	4675.3	4369.0	3144.1	2177.7	1832.9	1819.3	1837.4	1876.0	1935.0	1950.9	1957.7
37.5°	5047.3	4561.8	2951.2	1930.4	1714.9	1730.8	1749.0	1762.6	1764.8	1794.3	1783.0
40°	5419.3	4725.2	2670.0	1694.5	1592.4	1678.6	1669.6	1644.6	1624.2	1597.0	1590.2
42.5°	5746.0	4868.1	2356.9	1494.9	1483.6	1624.2	1594.7	1531.2	1483.6	1463.1	1429.1
45°	6113.5	5070.0	2041.6	1370.1	1399.6	1558.4	1549.3	1451.8	1390.6	1318.0	1308.9
47.5°	6589.8	5280.9	1739.9	1240.8	1320.2	1533.5	1538.0	1413.2	1324.8	1227.2	1213.6
50°	7200.0	5584.9	1510.8	1186.4	1272.6	1497.2	1504.0	1361.1	1245.4	1145.6	1136.5
52.5°	7785.3	5895.7	1320.2	1102.5	1240.8	1454.1	1470.0	1313.4	1179.6	1054.8	1061.6
55°	8080.2	5782.3	1156.9	1041.2	1168.2	1383.8	1442.7	1279.4	1079.8	993.6	991.3
57.5°	8146.0	5503.2	1027.6	977.7	1107.0	1308.9	1397.4	1177.3	1034.4	961.8	952.7
60°	7930.5	5015.5	925.5	909.6	1029.9	1231.8	1293.0	1122.9	989.0	930.1	916.5
62.5°	7399.7	4509.7	855.2	877.9	964.1	1147.8	1227.2	1084.3	945.9	905.1	875.6
65°	6068.1	3708.9	798.5	816.6	896.0	1066.2	1186.4	1041.2	907.4	868.8	866.5
67.5°	4203.4	2556.5	753.1	787.2	841.6	1007.2	1145.6	993.6	857.5	843.9	825.7
70°	2152.8	1363.3	694.1	721.4	782.6	932.3	1073.0	943.7	805.3	803.0	780.3
72.5°	1091.1	798.5	626.1	666.9	710.0	834.8	982.2	877.9	739.5	714.6	678.3
73°	943.7	739.5	614.7	651.0	691.9	807.6	955.0	862.0	730.4	694.1	660.1
75°	687.3	583.0	551.2	587.5	619.3	728.2	864.3	789.4	671.5	632.9	601.1
77.5°	514.9	449.2	458.2	499.1	526.3	628.4	769.0	714.6	607.9	555.8	542.2
80°	378.8	342.5	378.8	417.4	437.8	553.5	700.9	619.3	512.7	453.7	442.3
82.5°	269.9	249.5	292.6	317.6	326.7	458.2	630.6	494.5	387.9	310.8	285.8
85°	154.3	152.0	197.4	195.1	201.9	267.7	415.1	328.9	249.5	190.5	186.0
87.5°	68.1	74.9	99.8	79.4	83.9	127.0	176.9	122.5	102.1	56.7	43.1
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)