

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: P478004

Luminaire Tested: **IFLD-S-SA3E-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

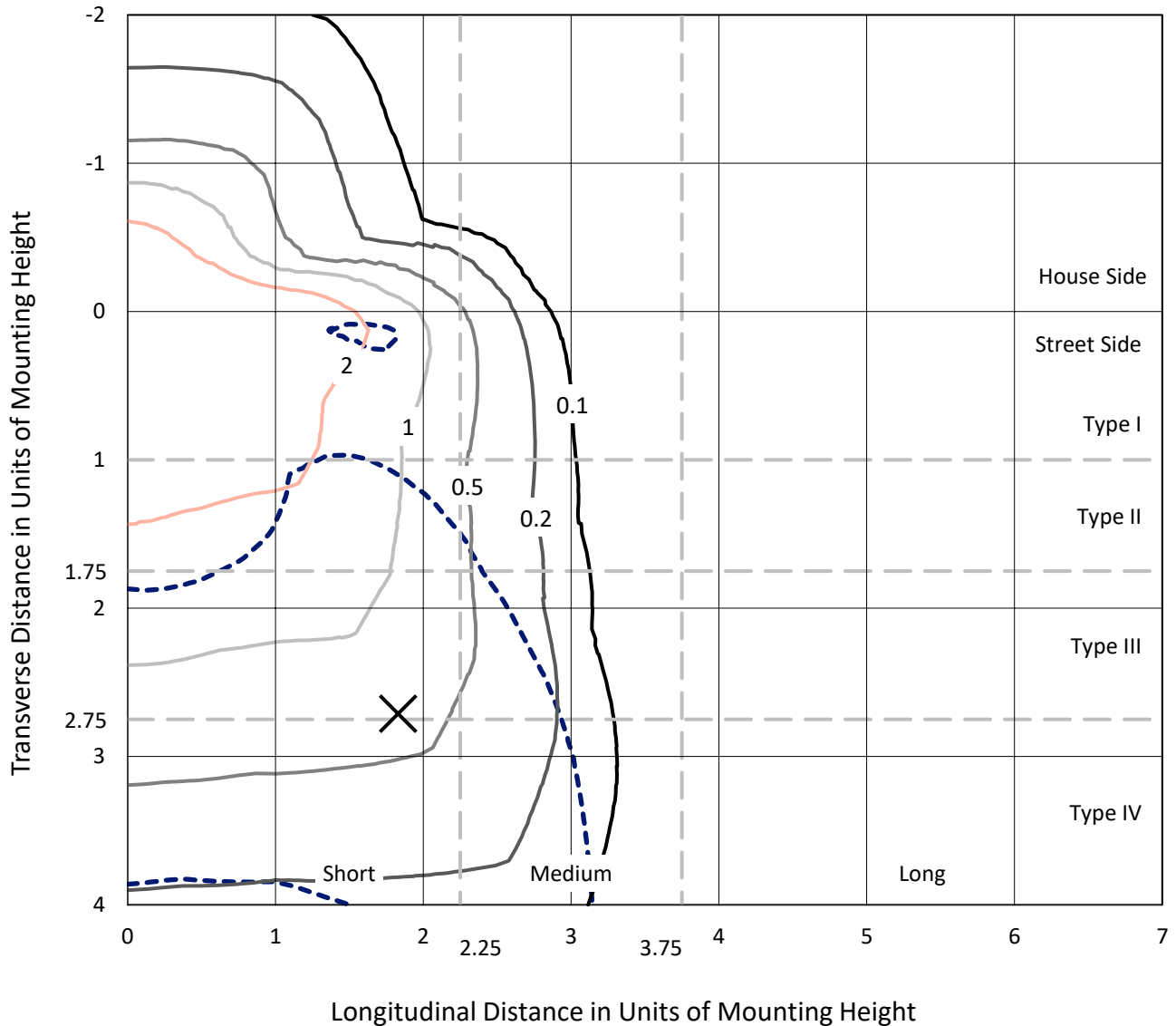
Lumens per Lamp: N/A
Luminaire Lumens: 20355.2 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

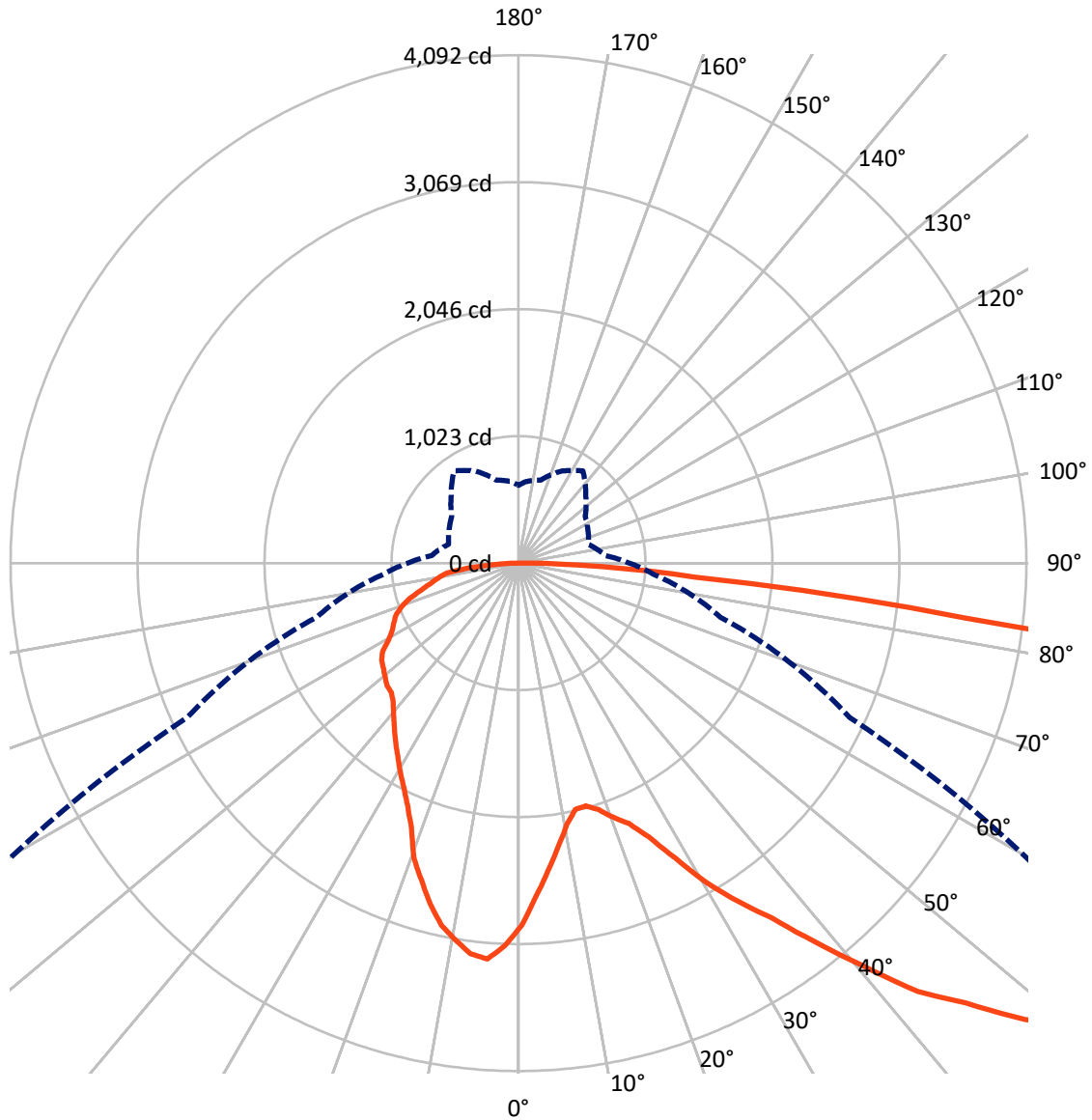
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	4397.0	0.0	4397.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15958.2	0.0	15958.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	20355.2	0.0	20355.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.3	1.3
10°-20°	753.8	3.7
20°-30°	1240.6	6.1
30°-40°	1855.3	9.1
40°-50°	2750.4	13.5
50°-60°	3963.6	19.5
60°-70°	5058.1	24.8
70°-80°	3936.0	19.3
80°-90°	528.0	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°	20355.2	100.0
0°-180°	20355.2	100.0

Coefficient of Utilization



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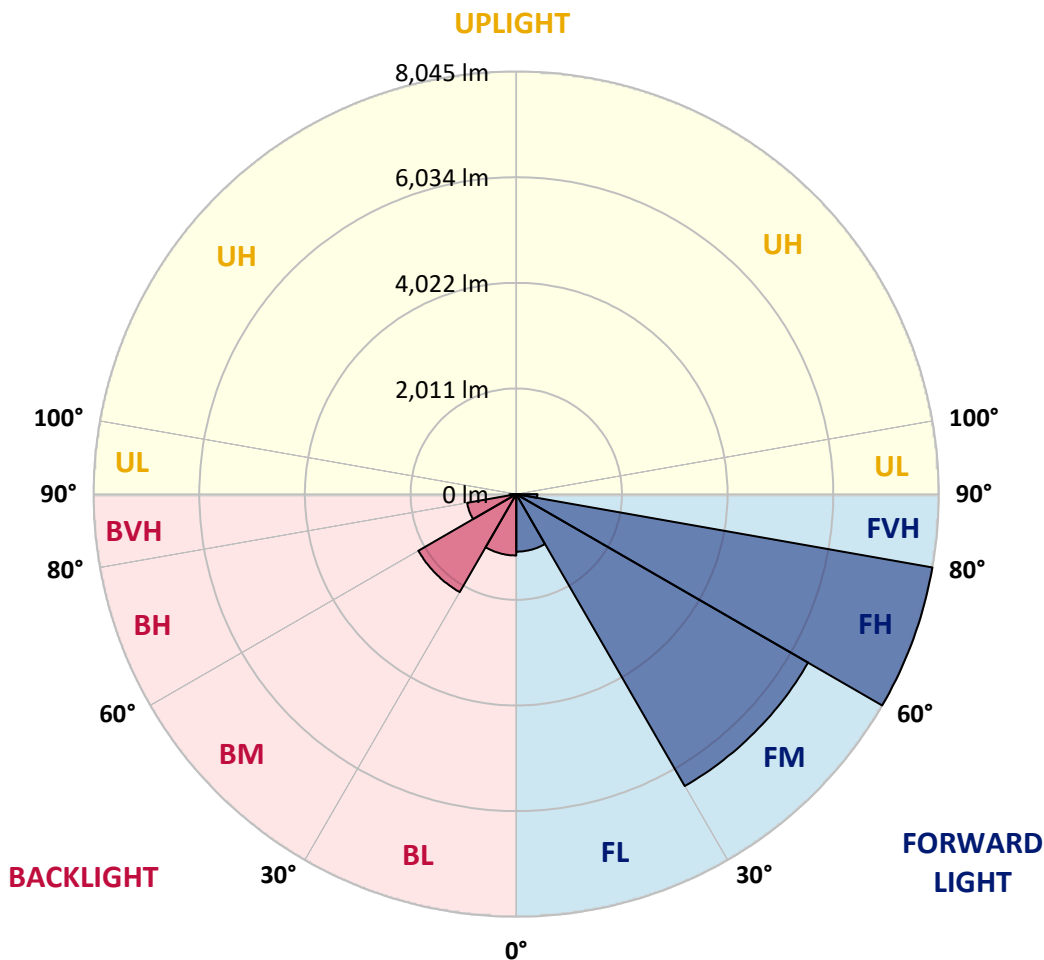
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.5	5.4			
FM (30°-60°)	6416.1	31.5			
FH (60°-80°)	8044.7	39.5			G4/12000
FVH (80°-90°)	401.9	2.0			G3/500
BL (0°-30°)	1168.2	5.7	B3/2500		
BM (30°-60°)	2153.2	10.6	B2/2500		
BH (60°-80°)	949.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	126.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2
2.5°	2614.8	2623.4	2651.4	2657.8	2688.0	2670.7	2707.3	2771.9	2808.5	2862.3	2926.8
5°	2408.2	2371.6	2388.8	2455.5	2490.0	2498.6	2537.3	2647.1	2715.9	2795.6	2916.1
7.5°	2165.0	2158.5	2193.0	2236.0	2304.9	2311.3	2397.4	2494.3	2636.3	2812.8	2954.8
10°	1999.3	2027.3	2046.6	2091.8	2139.2	2139.2	2248.9	2416.8	2578.2	2748.2	2963.4
12.5°	1990.7	1973.5	1977.8	2001.4	2035.9	2078.9	2182.2	2332.9	2537.3	2735.3	3000.0
15°	2018.7	2025.1	1986.4	2016.5	2029.4	2044.5	2158.5	2328.6	2511.5	2780.5	3062.4
17.5°	2167.2	2130.6	2070.3	2042.3	2087.5	2087.5	2165.0	2298.4	2515.8	2804.2	3152.8
20°	2283.4	2283.4	2184.4	2154.2	2186.5	2180.1	2233.9	2332.9	2537.3	2851.5	3254.0
22.5°	2479.2	2507.2	2343.6	2281.2	2279.1	2296.3	2343.6	2427.6	2597.6	2918.2	3350.8
25°	2761.1	2767.6	2578.2	2513.6	2444.8	2472.8	2481.4	2565.3	2651.4	2995.7	3460.6
27.5°	3075.3	3071.0	2896.7	2735.3	2690.1	2696.6	2649.2	2705.2	2731.0	3019.4	3617.7
30°	3424.0	3385.2	3254.0	3025.8	2989.3	2948.4	2845.1	2842.9	2896.7	3152.8	3835.0
32.5°	3652.1	3602.6	3512.2	3348.7	3247.5	3251.8	3088.2	3086.1	3038.8	3299.2	4024.4
35°	3875.9	3800.6	3776.9	3609.1	3507.9	3518.7	3387.4	3370.2	3284.1	3520.8	4336.5
37.5°	4144.9	4078.2	4114.8	3987.8	3863.0	3811.4	3751.1	3729.6	3617.7	3832.9	4762.6
40°	4441.9	4420.4	4396.7	4334.3	4259.0	4263.3	4198.7	4177.2	4011.5	4209.5	5171.5
42.5°	4842.2	4760.4	4637.8	4678.6	4717.4	4758.3	4736.8	4680.8	4508.6	4592.6	5627.7
45°	5214.5	5106.9	4880.9	4893.9	5053.1	5085.4	5345.8	5339.3	4992.8	5078.9	6146.4
47.5°	5466.3	5416.8	5281.2	5266.2	5494.3	5492.1	5961.3	5961.3	5502.9	5563.2	6703.8
50°	5840.8	5711.6	5653.5	5728.9	5845.1	5924.7	6589.7	6630.6	6004.3	6068.9	7433.3
52.5°	6279.8	6118.4	5972.0	6165.7	6372.3	6424.0	7211.7	7194.4	6389.6	6656.4	8287.7
55°	6643.5	6561.7	6460.6	6572.5	6910.4	6974.9	7835.8	7676.5	6774.8	7142.8	8698.7
57.5°	7067.5	7117.0	7138.5	7110.5	7512.9	7614.1	8548.1	8091.9	7106.2	7469.9	8939.8
60°	7706.6	7736.8	7764.7	7831.5	8257.6	8399.6	9111.9	8612.7	7315.0	7659.3	8959.2
62.5°	8679.4	8563.2	8625.6	8855.9	9198.0	9359.4	9942.7	8978.5	7474.2	7773.3	8326.4
65°	9792.0	9634.9	9570.3	9867.3	10754.0	10624.9	10980.0	9251.8	7243.9	7347.2	7061.0
67.5°	10919.7	10936.9	10771.2	11367.3	12454.1	12454.1	11944.1	9383.1	6619.8	5954.8	4952.0
70°	11815.0	11868.8	11959.2	13114.8	14836.5	15096.9	13138.5	8845.1	5347.9	3964.1	2707.3
72.5°	11802.1	11640.7	12103.4	14231.8	17001.5	16784.2	13388.2	6994.3	3337.9	1941.2	1241.8
73°	11537.4	11401.8	11907.5	14221.0	17089.7	16885.3	13205.2	6447.7	2944.1	1682.9	1104.0
75°	9421.9	9176.5	10037.3	12880.3	15811.4	15968.5	11218.8	4205.2	1614.1	1037.3	776.9
77.5°	4295.6	4403.2	5524.4	8640.6	12185.1	12370.2	7375.2	1818.5	884.5	727.4	572.5
80°	1379.5	1448.4	2149.9	4295.6	7637.8	7971.3	3408.9	826.4	630.6	557.4	428.3
82.5°	527.3	525.1	901.7	1786.2	3619.8	3832.9	1246.1	503.6	469.2	411.0	303.4
85°	185.1	193.7	340.0	705.9	1424.7	1491.4	432.6	279.8	325.0	275.5	174.3
87.5°	64.6	66.7	120.5	256.1	490.7	518.7	120.5	111.9	161.4	159.3	88.2
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°	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2	2918.2
2.5°	2948.4	2967.7	2974.2	3051.7	3051.7	3051.7	3081.8	3081.8	3073.2	3051.7	3103.3
5°	2961.3	2995.7	3062.4	3129.1	3146.4	3161.4	3202.3	3167.9	3180.8	3159.3	3178.6
7.5°	2997.9	3045.2	3170.0	3210.9	3182.9	3215.2	3172.2	3148.5	3124.8	3133.4	3103.3
10°	3060.3	3120.5	3178.6	3254.0	3200.2	3167.9	3079.6	3058.1	2982.8	2957.0	2980.6
12.5°	3137.7	3210.9	3309.9	3281.9	3178.6	3086.1	2991.4	2901.0	2855.8	2791.3	2808.5
15°	3215.2	3299.2	3314.2	3266.9	3137.7	3021.5	2849.4	2722.4	2677.2	2619.1	2649.2
17.5°	3299.2	3378.8	3353.0	3230.3	3056.0	2879.5	2683.7	2558.8	2464.1	2427.6	2427.6
20°	3424.0	3462.7	3421.8	3170.0	2957.0	2724.5	2535.2	2393.1	2298.4	2283.4	2259.7
22.5°	3520.8	3583.2	3400.3	3081.8	2812.8	2522.2	2304.9	2251.1	2223.1	2199.4	2169.3
25°	3645.6	3643.5	3361.6	3000.0	2565.3	2281.2	2149.9	2145.6	2132.7	2124.1	2165.0
27.5°	3764.0	3714.5	3316.4	2797.7	2309.2	2098.3	2027.3	2074.6	2094.0	2081.1	2098.3
30°	3951.2	3869.5	3251.8	2582.5	2083.2	1913.2	1926.1	1990.7	2023.0	2042.3	2016.5
32.5°	4149.2	4024.4	3118.4	2358.7	1883.1	1797.0	1827.1	1893.8	1932.6	1954.1	1977.8
35°	4435.5	4144.9	2982.8	2066.0	1738.9	1726.0	1743.2	1779.8	1835.7	1850.8	1857.3
37.5°	4788.4	4327.9	2799.9	1831.4	1627.0	1642.0	1659.3	1672.2	1674.3	1702.3	1691.5
40°	5141.3	4482.8	2533.0	1607.6	1510.8	1592.5	1583.9	1560.3	1540.9	1515.1	1508.6
42.5°	5451.2	4618.4	2236.0	1418.2	1407.5	1540.9	1512.9	1452.7	1407.5	1388.1	1355.8
45°	5799.9	4809.9	1936.9	1299.9	1327.8	1478.5	1469.9	1377.3	1319.2	1250.4	1241.8
47.5°	6251.8	5010.1	1650.7	1177.2	1252.5	1454.8	1459.1	1340.8	1256.8	1164.3	1151.4
50°	6830.7	5298.4	1433.3	1125.5	1207.3	1420.4	1426.8	1291.3	1181.5	1086.8	1078.2
52.5°	7386.0	5593.3	1252.5	1045.9	1177.2	1379.5	1394.6	1246.1	1119.1	1000.7	1007.2
55°	7665.7	5485.7	1097.6	987.8	1108.3	1312.8	1368.7	1213.8	1024.4	942.6	940.5
57.5°	7728.2	5221.0	974.9	927.6	1050.2	1241.8	1325.7	1116.9	981.4	912.5	903.9
60°	7523.7	4758.3	878.1	863.0	977.0	1168.6	1226.7	1065.3	938.3	882.4	869.4
62.5°	7020.1	4278.4	811.3	832.9	914.6	1089.0	1164.3	1028.7	897.4	858.7	830.7
65°	5756.8	3518.7	757.5	774.8	850.1	1011.5	1125.5	987.8	860.8	824.3	822.1
67.5°	3987.8	2425.4	714.5	746.8	798.4	955.5	1086.8	942.6	813.5	800.6	783.4
70°	2042.3	1293.4	658.5	684.4	742.5	884.5	1017.9	895.3	764.0	761.8	740.3
72.5°	1035.2	757.5	594.0	632.7	673.6	792.0	931.9	832.9	701.6	677.9	643.5
73°	895.3	701.6	583.2	617.6	656.4	766.1	906.0	817.8	693.0	658.5	626.3
75°	652.1	553.1	523.0	557.4	587.5	690.8	819.9	748.9	637.0	600.4	570.3
77.5°	488.5	426.1	434.7	473.5	499.3	596.1	729.6	677.9	576.8	527.3	514.3
80°	359.4	325.0	359.4	396.0	415.4	525.1	665.0	587.5	486.4	430.4	419.7
82.5°	256.1	236.7	277.6	301.3	309.9	434.7	598.3	469.2	368.0	294.8	271.2
85°	146.3	144.2	187.2	185.1	191.5	253.9	393.8	312.1	236.7	180.8	176.5
87.5°	64.6	71.0	94.7	75.3	79.6	120.5	167.9	116.2	96.8	53.8	40.9
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)