

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: P478099

Luminaire Tested: **IFLD-M-SA4B-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478099  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

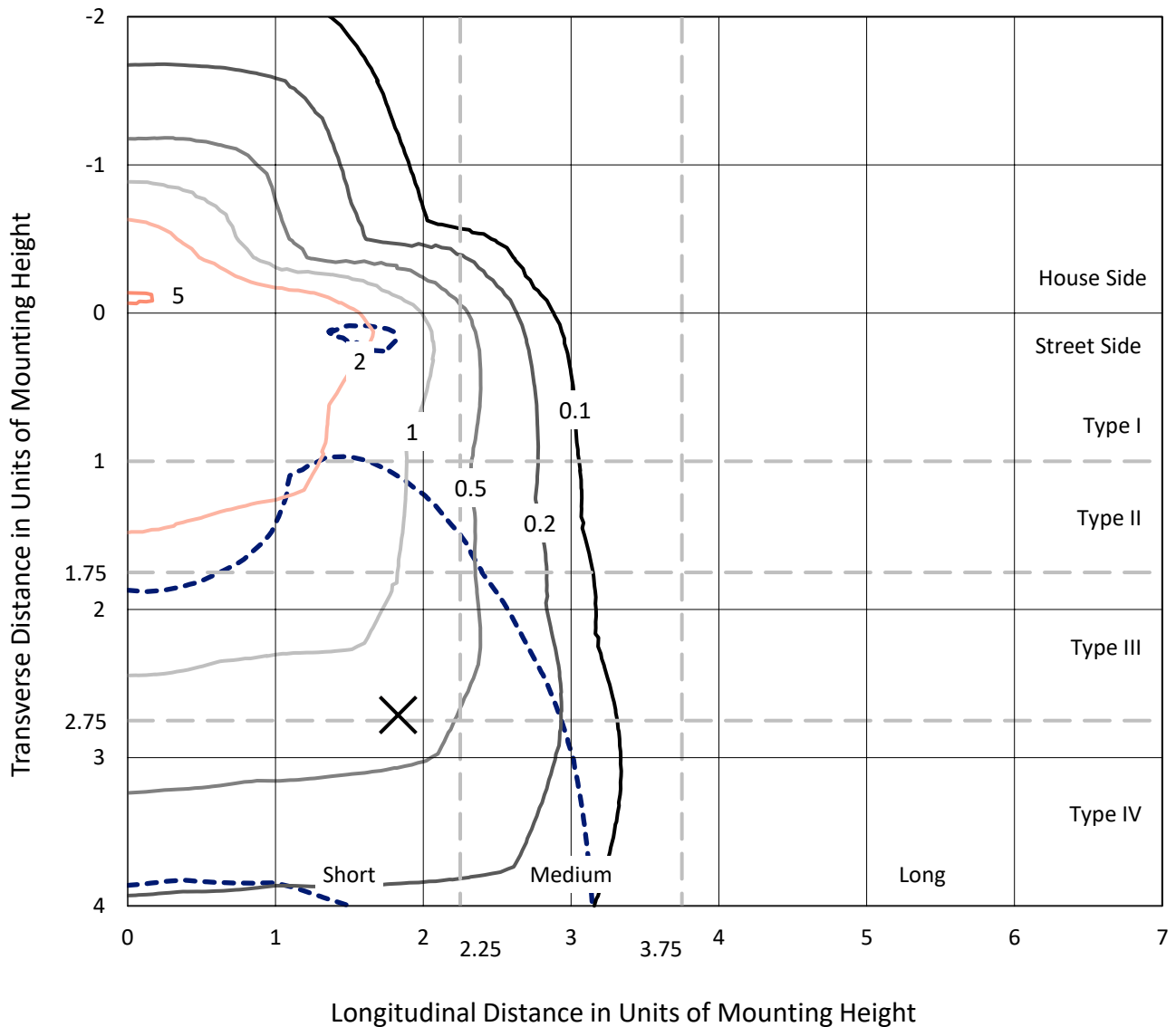
Lumens per Lamp: N/A  
Luminaire Lumens: 21307 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

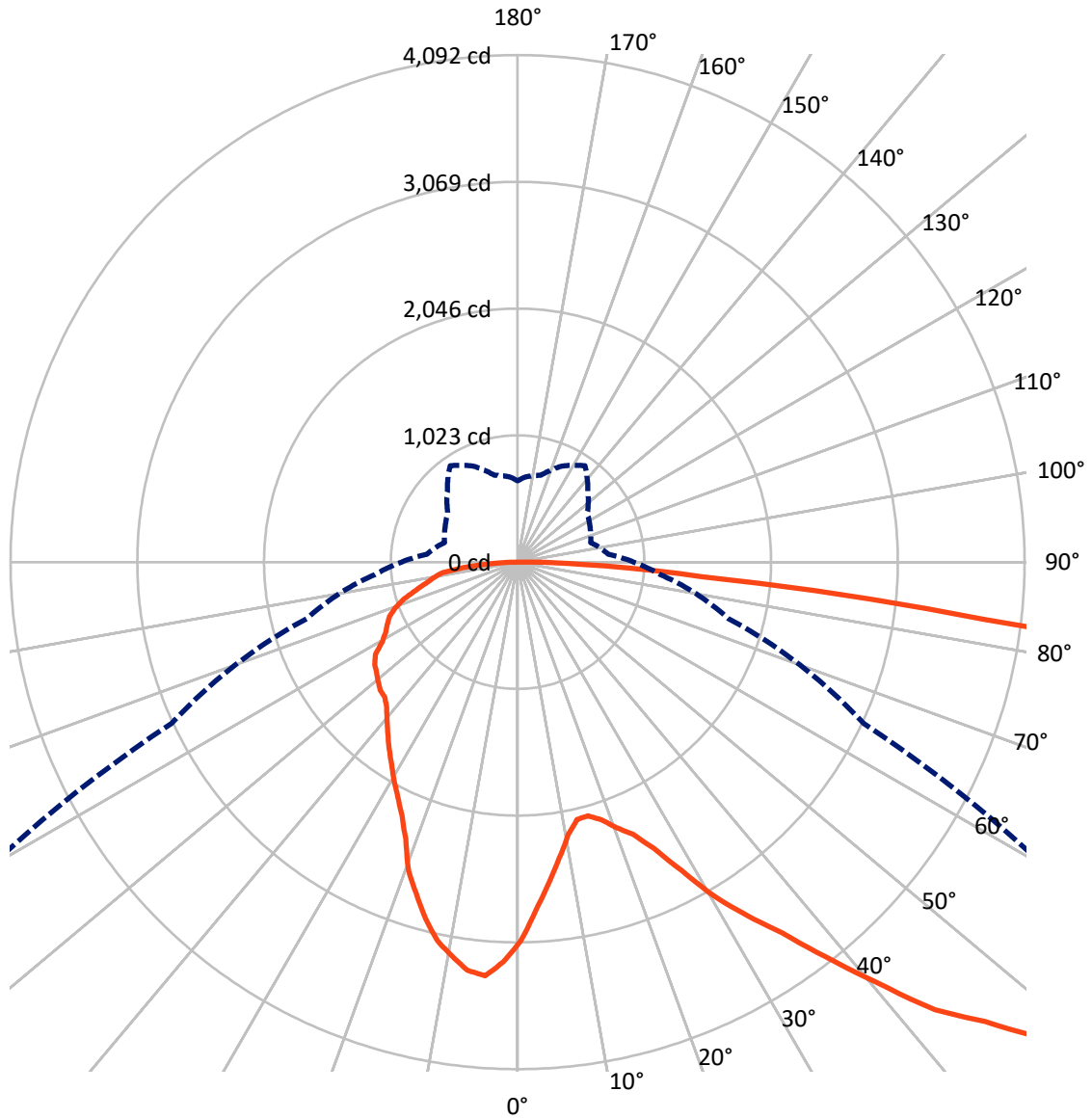
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
<b>House Side</b>	Lumens	4602.6	0.0	4602.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	16704.4	0.0	16704.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	21307.0	0.0	21307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.9	1.3
10°-20°	789.0	3.7
20°-30°	1298.6	6.1
30°-40°	1942.0	9.1
40°-50°	2879.0	13.5
50°-60°	4148.9	19.5
60°-70°	5294.6	24.8
70°-80°	4120.1	19.3
80°-90°	552.7	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°	21307.0	100.0
0°-180°	21307.0	100.0

**Coefficient of Utilization**



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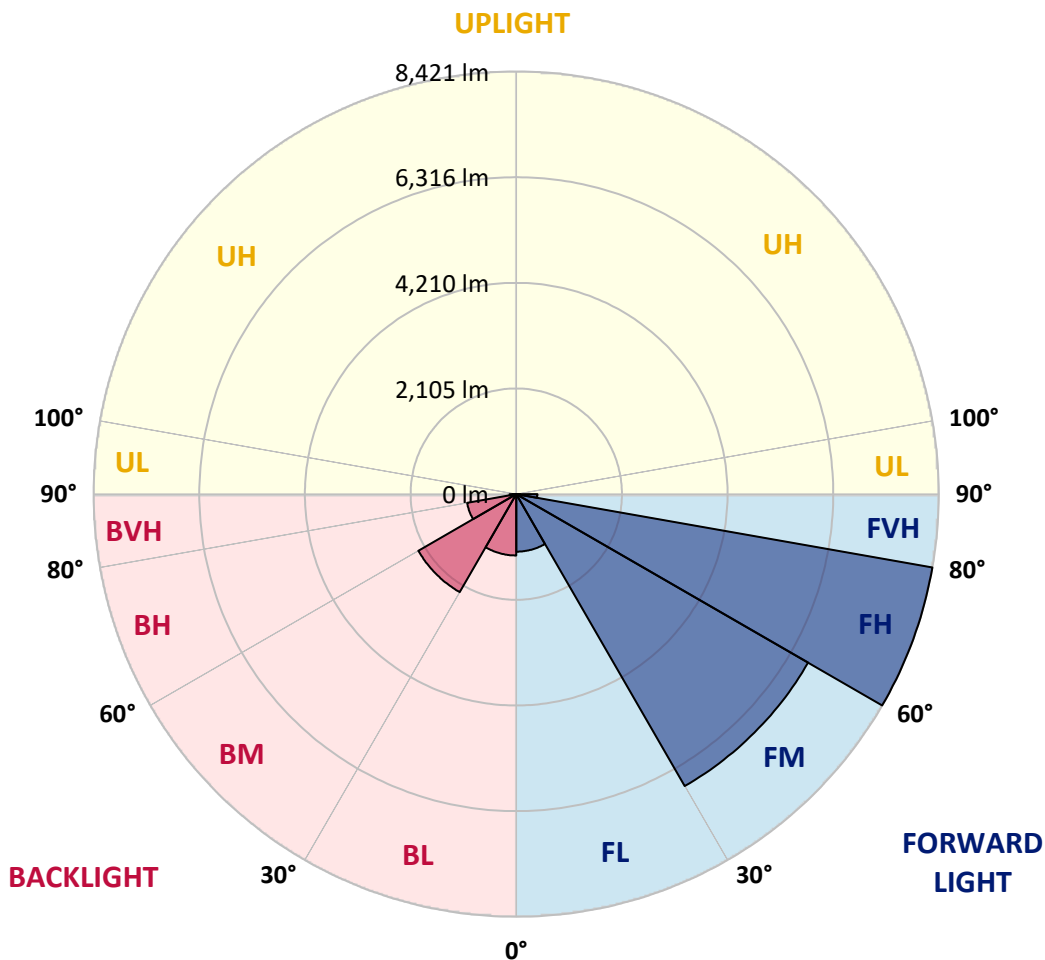
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.7	5.4			
FM (30°-60°)	6716.1	31.5			
FH (60°-80°)	8420.9	39.5			G4/12000
FVH (80°-90°)	420.7	2.0			G3/500
BL (0°-30°)	1222.9	5.7	B3/2500		
BM (30°-60°)	2253.9	10.6	B2/2500		
BH (60°-80°)	993.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	132.0	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°	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7
2.5°	2737.1	2746.1	2775.4	2782.1	2813.6	2795.6	2833.9	2901.5	2939.8	2996.1	3063.7
5°	2520.8	2482.5	2500.5	2570.4	2606.4	2615.4	2656.0	2770.8	2842.9	2926.3	3052.4
7.5°	2266.2	2259.5	2295.5	2340.6	2412.7	2419.4	2509.5	2610.9	2759.6	2944.3	3093.0
10°	2092.8	2122.1	2142.3	2189.6	2239.2	2239.2	2354.1	2529.8	2698.8	2876.7	3102.0
12.5°	2083.8	2065.7	2070.2	2095.0	2131.1	2176.1	2284.3	2441.9	2656.0	2863.2	3140.3
15°	2113.1	2119.8	2079.3	2110.8	2124.3	2140.1	2259.5	2437.4	2628.9	2910.5	3205.6
17.5°	2268.5	2230.2	2167.1	2137.8	2185.1	2185.1	2266.2	2405.9	2633.4	2935.3	3300.2
20°	2390.1	2390.1	2286.5	2255.0	2288.8	2282.0	2338.3	2441.9	2656.0	2984.9	3406.1
22.5°	2595.1	2624.4	2453.2	2387.9	2385.6	2403.7	2453.2	2541.1	2719.0	3054.7	3507.5
25°	2890.2	2897.0	2698.8	2631.2	2559.1	2588.4	2597.4	2685.2	2775.4	3135.8	3622.4
27.5°	3219.1	3214.6	3032.2	2863.2	2815.9	2822.7	2773.1	2831.7	2858.7	3160.6	3786.8
30°	3584.1	3543.5	3406.1	3167.3	3129.0	3086.2	2978.1	2975.8	3032.2	3300.2	4014.3
32.5°	3822.9	3771.1	3676.4	3505.2	3399.4	3403.9	3232.7	3230.4	3180.8	3453.4	4212.6
35°	4057.1	3978.3	3953.5	3777.8	3671.9	3683.2	3545.8	3527.8	3437.6	3685.4	4539.2
37.5°	4338.7	4268.9	4307.2	4174.3	4043.6	3989.6	3926.5	3904.0	3786.8	4012.1	4985.3
40°	4649.6	4627.1	4602.3	4537.0	4458.1	4462.6	4395.1	4372.5	4199.1	4406.3	5413.3
42.5°	5068.6	4983.0	4854.6	4897.4	4938.0	4980.8	4958.2	4899.7	4719.4	4807.3	5890.9
45°	5458.3	5345.7	5109.2	5122.7	5289.4	5323.2	5595.8	5589.0	5226.3	5316.4	6433.8
47.5°	5721.9	5670.1	5528.2	5512.4	5751.2	5748.9	6240.0	6240.0	5760.2	5823.3	7017.2
50°	6113.9	5978.7	5917.9	5996.7	6118.4	6201.7	6897.8	6940.6	6285.1	6352.7	7780.9
52.5°	6573.4	6404.5	6251.3	6454.0	6670.3	6724.4	7548.9	7530.8	6688.3	6967.7	8675.2
55°	6954.1	6868.5	6762.7	6879.8	7233.5	7301.1	8202.2	8035.4	7091.6	7476.8	9105.5
57.5°	7397.9	7449.7	7472.3	7443.0	7864.2	7970.1	8947.8	8470.2	7438.5	7819.2	9357.8
60°	8067.0	8098.5	8127.8	8197.6	8643.7	8792.4	9538.0	9015.4	7657.0	8017.4	9378.1
62.5°	9085.2	8963.6	9028.9	9269.9	9628.1	9797.1	10407.6	9398.3	7823.7	8136.8	8715.8
65°	10249.9	10085.4	10017.8	10328.7	11256.8	11121.7	11493.4	9684.4	7582.7	7690.8	7391.2
67.5°	11430.3	11448.3	11274.9	11898.9	13036.5	13036.5	12502.6	9821.9	6929.4	6233.3	5183.5
70°	12367.4	12423.7	12518.4	13728.1	15530.2	15802.8	13752.9	9258.7	5598.0	4149.5	2833.9
72.5°	12353.9	12185.0	12669.3	14897.2	17796.5	17569.0	14014.2	7321.3	3494.0	2032.0	1299.8
73°	12076.8	11934.9	12464.3	14886.0	17888.8	17674.8	13822.7	6749.1	3081.7	1761.6	1155.6
75°	9862.4	9605.6	10506.7	13482.5	16550.7	16715.2	11743.4	4401.8	1689.5	1085.8	813.2
77.5°	4496.4	4609.1	5782.7	9044.7	12754.9	12948.6	7720.1	1903.5	925.9	761.4	599.2
80°	1444.0	1516.1	2250.5	4496.4	7994.9	8344.1	3568.3	865.0	660.0	583.5	448.3
82.5°	551.9	549.7	943.9	1869.8	3789.1	4012.1	1304.3	527.1	491.1	430.3	317.6
85°	193.7	202.7	355.9	738.9	1491.3	1561.1	452.8	292.9	340.2	288.3	182.5
87.5°	67.6	69.8	126.2	268.1	513.6	542.9	126.2	117.1	169.0	166.7	92.4
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°	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7	3054.7
2.5°	3086.2	3106.5	3113.3	3194.4	3194.4	3194.4	3225.9	3225.9	3216.9	3194.4	3248.4
5°	3099.7	3135.8	3205.6	3275.5	3293.5	3309.2	3352.0	3316.0	3329.5	3307.0	3327.3
7.5°	3138.0	3187.6	3318.3	3361.1	3331.8	3365.6	3320.5	3295.7	3270.9	3280.0	3248.4
10°	3203.4	3266.4	3327.3	3406.1	3349.8	3316.0	3223.6	3201.1	3122.3	3095.2	3120.0
12.5°	3284.5	3361.1	3464.7	3435.4	3327.3	3230.4	3131.3	3036.7	2989.4	2921.8	2939.8
15°	3365.6	3453.4	3469.2	3419.6	3284.5	3162.8	2982.6	2849.7	2802.4	2741.6	2773.1
17.5°	3453.4	3536.8	3509.7	3381.3	3198.9	3014.1	2809.1	2678.5	2579.4	2541.1	2541.1
20°	3584.1	3624.6	3581.8	3318.3	3095.2	2851.9	2653.7	2505.0	2405.9	2390.1	2365.4
22.5°	3685.4	3750.8	3559.3	3225.9	2944.3	2640.2	2412.7	2356.3	2327.1	2302.3	2270.7
25°	3816.1	3813.9	3518.7	3140.3	2685.2	2387.9	2250.5	2246.0	2232.4	2223.4	2266.2
27.5°	3940.0	3888.2	3471.4	2928.5	2417.2	2196.4	2122.1	2171.6	2191.9	2178.4	2196.4
30°	4136.0	4050.4	3403.9	2703.3	2180.6	2002.7	2016.2	2083.8	2117.6	2137.8	2110.8
32.5°	4343.2	4212.6	3264.2	2469.0	1971.1	1881.0	1912.6	1982.4	2022.9	2045.5	2070.2
35°	4642.9	4338.7	3122.3	2162.6	1820.2	1806.7	1824.7	1863.0	1921.6	1937.3	1944.1
37.5°	5012.3	4530.2	2930.8	1917.1	1703.1	1718.8	1736.8	1750.4	1752.6	1781.9	1770.6
40°	5381.7	4692.4	2651.5	1682.8	1581.4	1667.0	1658.0	1633.2	1612.9	1585.9	1579.2
42.5°	5706.1	4834.3	2340.6	1484.5	1473.3	1612.9	1583.7	1520.6	1473.3	1453.0	1419.2
45°	6071.1	5034.8	2027.4	1360.6	1389.9	1547.6	1538.6	1441.7	1380.9	1308.8	1299.8
47.5°	6544.1	5244.3	1727.8	1232.2	1311.1	1522.8	1527.3	1403.4	1315.6	1218.7	1205.2
50°	7150.1	5546.2	1500.3	1178.2	1263.8	1486.8	1493.6	1351.6	1236.7	1137.6	1128.6
52.5°	7731.3	5854.8	1311.1	1094.8	1232.2	1444.0	1459.8	1304.3	1171.4	1047.5	1054.3
55°	8024.2	5742.2	1148.9	1034.0	1160.2	1374.2	1432.7	1270.5	1072.3	986.7	984.4
57.5°	8089.5	5465.1	1020.5	970.9	1099.3	1299.8	1387.7	1169.2	1027.2	955.2	946.1
60°	7875.5	4980.8	919.1	903.3	1022.7	1223.2	1284.0	1115.1	982.2	923.6	910.1
62.5°	7348.4	4478.4	849.3	871.8	957.4	1139.9	1218.7	1076.8	939.4	898.8	869.5
65°	6026.0	3683.2	793.0	811.0	889.8	1058.8	1178.2	1034.0	901.1	862.8	860.5
67.5°	4174.3	2538.8	747.9	781.7	835.8	1000.2	1137.6	986.7	851.5	838.0	820.0
70°	2137.8	1353.9	689.3	716.4	777.2	925.9	1065.5	937.1	799.7	797.5	774.9
72.5°	1083.6	793.0	621.8	662.3	705.1	829.0	975.4	871.8	734.4	709.6	673.6
73°	937.1	734.4	610.5	646.5	687.1	802.0	948.4	856.0	725.4	689.3	655.5
75°	682.6	578.9	547.4	583.5	615.0	723.1	858.3	783.9	666.8	628.5	597.0
77.5°	511.4	446.0	455.0	495.6	522.6	624.0	763.7	709.6	603.7	551.9	538.4
80°	376.2	340.2	376.2	414.5	434.8	549.7	696.1	615.0	509.1	450.5	439.3
82.5°	268.1	247.8	290.6	315.4	324.4	455.0	626.3	491.1	385.2	308.6	283.8
85°	153.2	150.9	196.0	193.7	200.5	265.8	412.2	326.6	247.8	189.2	184.7
87.5°	67.6	74.3	99.1	78.8	83.4	126.2	175.7	121.6	101.4	56.3	42.8
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)