

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: P478334

Luminaire Tested: **IFLD-M-SA4C-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478334  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

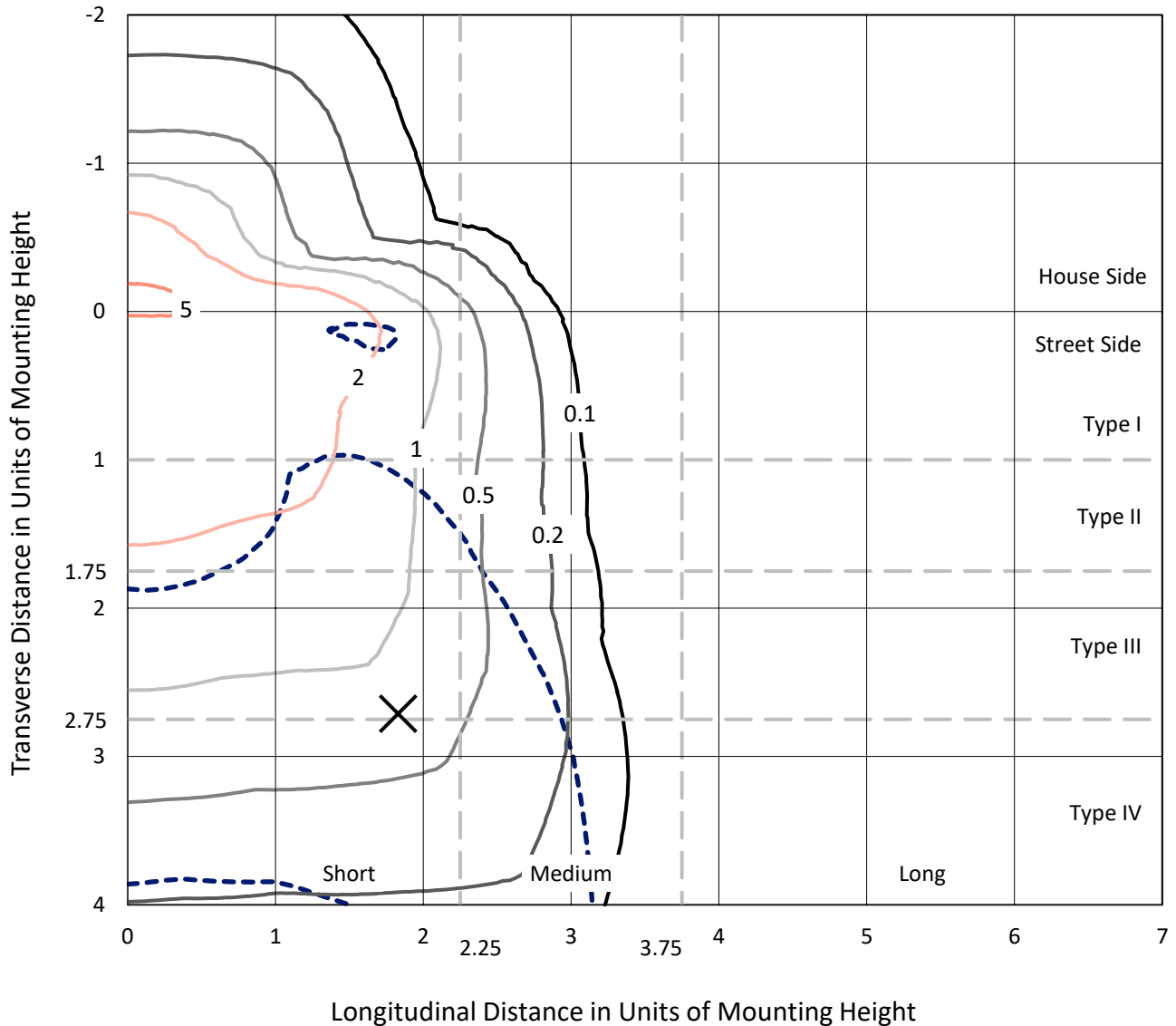
Lumens per Lamp: N/A  
Luminaire Lumens: 23145.1 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

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

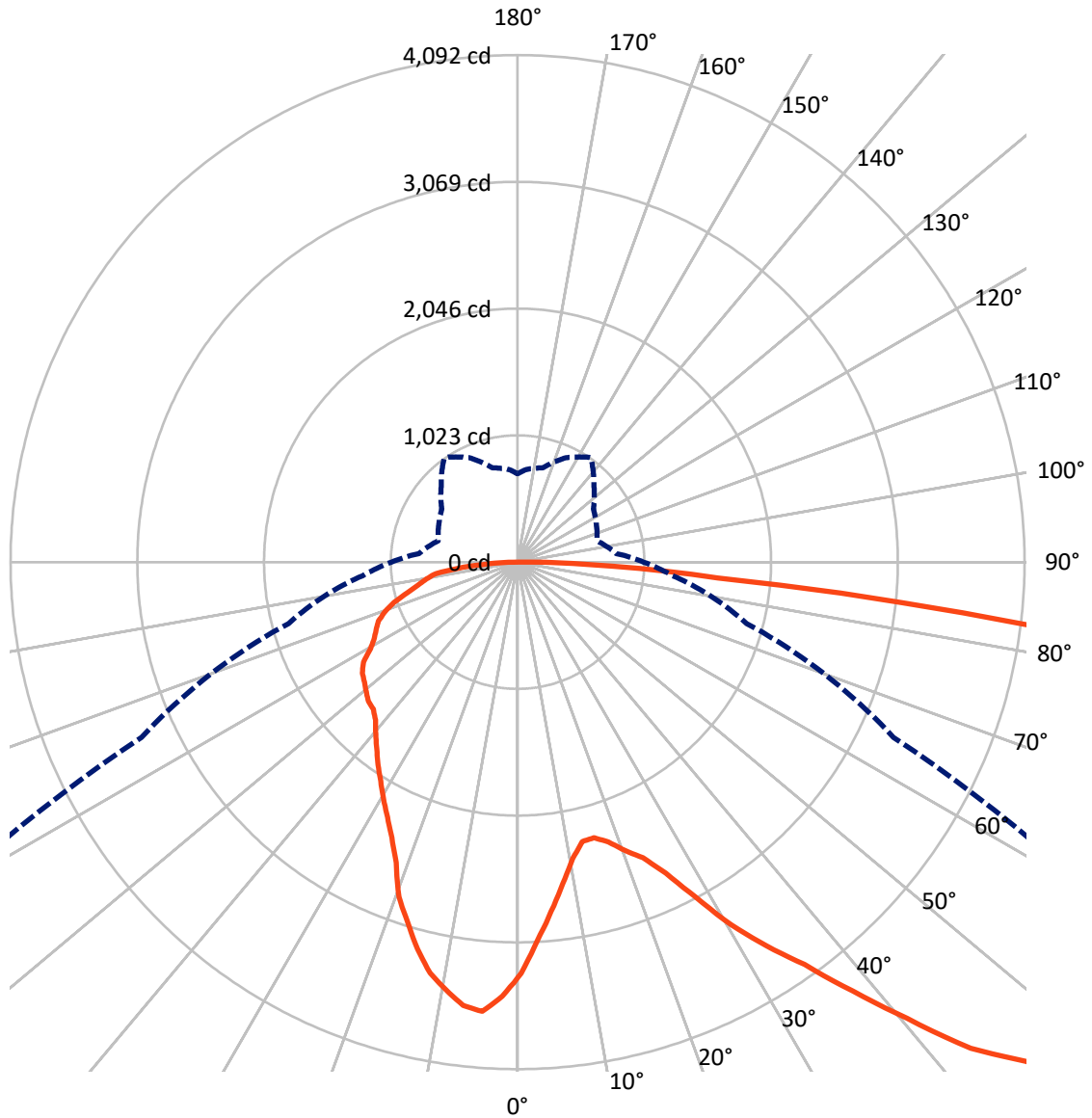
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	4999.6	0.0	4999.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18145.5	0.0	18145.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23145.1	0.0	23145.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.3	1.3
10°-20°	857.1	3.7
20°-30°	1410.6	6.1
30°-40°	2109.6	9.1
40°-50°	3127.4	13.5
50°-60°	4506.9	19.5
60°-70°	5751.4	24.8
70°-80°	4475.5	19.3
80°-90°	600.4	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°	23145.1	100.0
0°-180°	23145.1	100.0

**Coefficient of Utilization**



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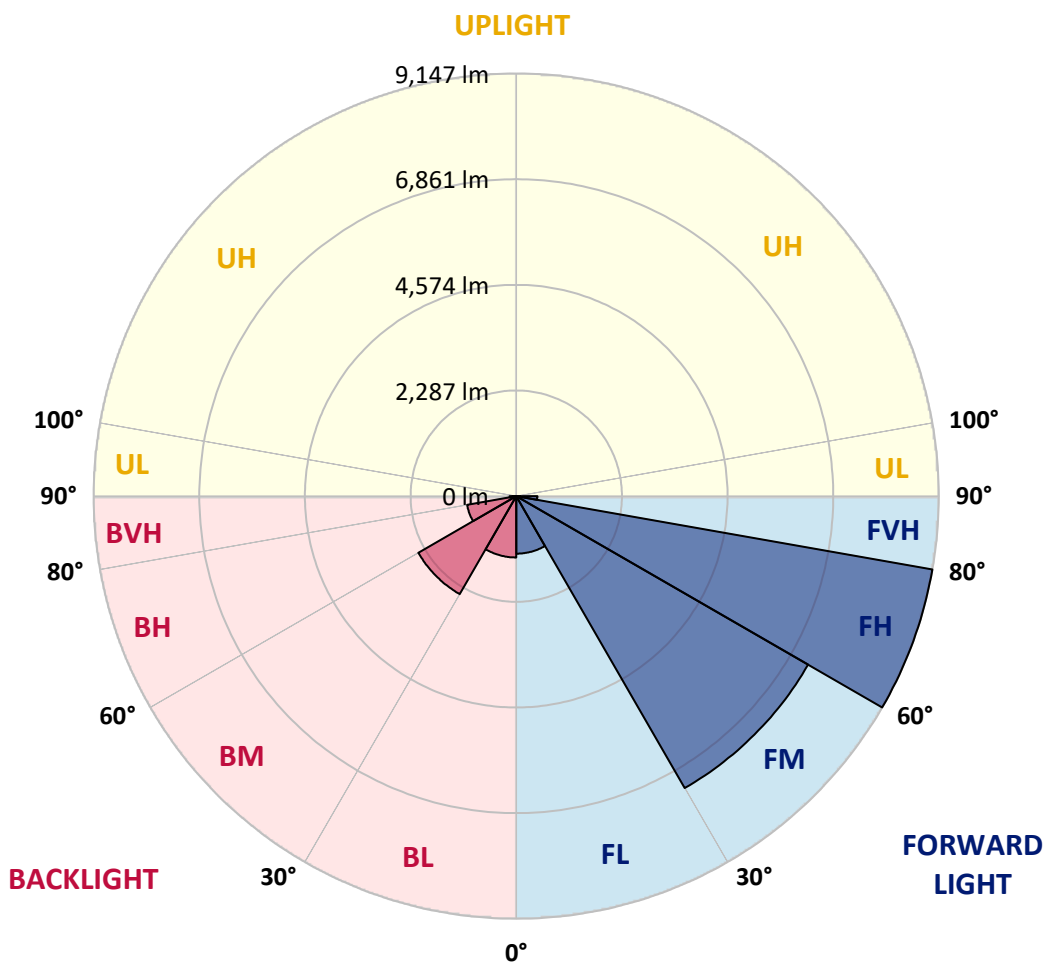
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.6	5.4			
FM (30°-60°)	7295.5	31.5			
FH (60°-80°)	9147.4	39.5			G4/12000
FVH (80°-90°)	457.0	2.0			G3/500
BL (0°-30°)	1328.4	5.7	B3/2500		
BM (30°-60°)	2448.3	10.6	B2/2500		
BH (60°-80°)	1079.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	143.4	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°	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2
2.5°	2973.2	2983.0	3014.8	3022.1	3056.4	3036.8	3078.4	3151.8	3193.4	3254.6	3328.0
5°	2738.3	2696.7	2716.2	2792.1	2831.3	2841.0	2885.1	3009.9	3088.2	3178.7	3315.8
7.5°	2461.7	2454.4	2493.6	2542.5	2620.8	2628.1	2726.0	2836.1	2997.7	3198.3	3359.8
10°	2273.3	2305.1	2327.2	2378.5	2432.4	2432.4	2557.2	2748.1	2931.6	3124.9	3369.6
12.5°	2263.5	2244.0	2248.9	2275.8	2314.9	2363.9	2481.3	2652.6	2885.1	3110.2	3411.2
15°	2295.3	2302.7	2258.6	2292.9	2307.6	2324.7	2454.4	2647.7	2855.7	3161.6	3482.2
17.5°	2464.2	2422.6	2354.1	2322.3	2373.7	2373.7	2461.7	2613.5	2860.6	3188.5	3584.9
20°	2596.3	2596.3	2483.8	2449.5	2486.2	2478.9	2540.1	2652.6	2885.1	3242.4	3700.0
22.5°	2819.0	2850.8	2664.9	2593.9	2591.4	2611.0	2664.9	2760.3	2953.6	3318.2	3810.1
25°	3139.6	3146.9	2931.6	2858.2	2779.9	2811.7	2821.5	2916.9	3014.8	3406.3	3934.9
27.5°	3496.9	3492.0	3293.7	3110.2	3058.8	3066.2	3012.3	3076.0	3105.3	3433.2	4113.5
30°	3893.3	3849.2	3700.0	3440.6	3399.0	3352.5	3235.0	3232.6	3293.7	3584.9	4360.7
32.5°	4152.7	4096.4	3993.6	3807.6	3692.6	3697.5	3511.5	3509.1	3455.3	3751.3	4576.0
35°	4407.2	4321.5	4294.6	4103.7	3988.7	4000.9	3851.7	3832.1	3734.2	4003.4	4930.8
37.5°	4713.0	4637.2	4678.8	4534.4	4392.5	4333.7	4265.2	4240.8	4113.5	4358.2	5415.3
40°	5050.7	5026.3	4999.3	4928.4	4842.7	4847.6	4774.2	4749.7	4561.3	4786.5	5880.3
42.5°	5505.9	5412.9	5273.4	5319.9	5364.0	5410.5	5386.0	5322.4	5126.6	5222.0	6399.1
45°	5929.2	5806.9	5549.9	5564.6	5745.7	5782.4	6078.5	6071.2	5677.2	5775.1	6988.8
47.5°	6215.5	6159.3	6005.1	5988.0	6247.3	6244.9	6778.4	6778.4	6257.1	6325.7	7622.6
50°	6641.3	6494.5	6428.4	6514.1	6646.2	6736.8	7492.9	7539.4	6827.3	6900.7	8452.2
52.5°	7140.5	6957.0	6790.6	7010.8	7245.8	7304.5	8200.1	8180.5	7265.3	7568.8	9423.6
55°	7554.1	7461.1	7346.1	7473.3	7857.5	7930.9	8909.8	8728.7	7703.4	8121.8	9891.0
57.5°	8036.2	8092.4	8116.9	8085.1	8542.7	8657.7	9719.7	9201.0	8080.2	8493.8	10165.1
60°	8762.9	8797.2	8829.0	8904.9	9389.4	9550.9	10360.9	9793.1	8317.6	8709.1	10187.1
62.5°	9869.0	9736.9	9807.8	10069.7	10458.7	10642.3	11305.4	10209.1	8498.6	8838.8	9467.7
65°	11134.1	10955.5	10882.1	11219.8	12228.0	12081.1	12484.9	10519.9	8236.8	8354.3	8028.8
67.5°	12416.4	12436.0	12247.5	12925.4	14161.1	14161.1	13581.2	10669.2	7527.2	6771.0	5630.7
70°	13434.4	13495.5	13598.3	14912.4	16870.0	17166.1	14939.3	10057.4	6080.9	4507.5	3078.4
72.5°	13419.7	13236.2	13762.3	16182.4	19331.8	19084.6	15223.2	7953.0	3795.4	2207.3	1412.0
73°	13118.7	12964.5	13539.6	16170.2	19432.1	19199.6	15015.2	7331.4	3347.6	1913.6	1255.3
75°	10713.2	10434.3	11413.1	14645.7	17978.6	18157.2	12756.5	4781.6	1835.3	1179.5	883.4
77.5°	4884.3	5006.7	6281.6	9825.0	13855.3	14065.7	8386.1	2067.8	1005.7	827.1	650.9
80°	1568.6	1646.9	2444.6	4884.3	8684.6	9063.9	3876.1	939.7	717.0	633.8	487.0
82.5°	599.5	597.1	1025.3	2031.1	4116.0	4358.2	1416.8	572.6	533.5	467.4	345.0
85°	210.4	220.2	386.6	802.6	1620.0	1695.8	491.9	318.1	369.5	313.2	198.2
87.5°	73.4	75.9	137.0	291.2	557.9	589.7	137.0	127.2	183.5	181.1	100.3
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°	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2	3318.2
2.5°	3352.5	3374.5	3381.8	3469.9	3469.9	3469.9	3504.2	3504.2	3494.4	3469.9	3528.7
5°	3367.2	3406.3	3482.2	3558.0	3577.6	3594.7	3641.2	3602.1	3616.8	3592.3	3614.3
7.5°	3408.8	3462.6	3604.5	3651.0	3619.2	3655.9	3607.0	3580.1	3553.1	3562.9	3528.7
10°	3479.7	3548.2	3614.3	3700.0	3638.8	3602.1	3501.7	3477.3	3391.6	3362.3	3389.2
12.5°	3567.8	3651.0	3763.6	3731.8	3614.3	3509.1	3401.4	3298.6	3247.3	3173.8	3193.4
15°	3655.9	3751.3	3768.5	3714.6	3567.8	3435.7	3239.9	3095.5	3044.1	2978.1	3012.3
17.5°	3751.3	3841.9	3812.5	3673.0	3474.8	3274.2	3051.5	2909.6	2801.9	2760.3	2760.3
20°	3893.3	3937.3	3890.8	3604.5	3362.3	3098.0	2882.6	2721.1	2613.5	2596.3	2569.4
22.5°	4003.4	4074.4	3866.4	3504.2	3198.3	2868.0	2620.8	2559.6	2527.8	2500.9	2466.6
25°	4145.3	4142.9	3822.3	3411.2	2916.9	2593.9	2444.6	2439.7	2425.0	2415.3	2461.7
27.5°	4279.9	4223.6	3770.9	3181.2	2625.7	2385.9	2305.1	2359.0	2381.0	2366.3	2385.9
30°	4492.8	4399.8	3697.5	2936.5	2368.8	2175.4	2190.1	2263.5	2300.2	2322.3	2292.9
32.5°	4717.9	4576.0	3545.8	2682.0	2141.2	2043.3	2077.6	2153.4	2197.5	2221.9	2248.9
35°	5043.4	4713.0	3391.6	2349.2	1977.2	1962.5	1982.1	2023.7	2087.3	2104.5	2111.8
37.5°	5444.7	4921.0	3183.6	2082.4	1850.0	1867.1	1886.7	1901.4	1903.8	1935.6	1923.4
40°	5846.0	5097.2	2880.2	1828.0	1717.8	1810.8	1801.0	1774.1	1752.1	1722.7	1715.4
42.5°	6198.4	5251.4	2542.5	1612.6	1600.4	1752.1	1720.3	1651.8	1600.4	1578.4	1541.6
45°	6594.8	5469.2	2202.4	1478.0	1509.8	1681.1	1671.3	1566.1	1500.0	1421.7	1412.0
47.5°	7108.7	5696.8	1876.9	1338.5	1424.2	1654.2	1659.1	1524.5	1429.1	1323.9	1309.2
50°	7767.0	6024.7	1629.7	1279.8	1372.8	1615.1	1622.4	1468.2	1343.4	1235.8	1226.0
52.5°	8398.3	6359.9	1424.2	1189.3	1338.5	1568.6	1585.7	1416.8	1272.5	1137.9	1145.2
55°	8716.4	6237.6	1248.0	1123.2	1260.2	1492.7	1556.3	1380.1	1164.8	1071.8	1069.4
57.5°	8787.4	5936.6	1108.5	1054.7	1194.2	1412.0	1507.4	1270.0	1115.9	1037.6	1027.8
60°	8554.9	5410.5	998.4	981.3	1111.0	1328.8	1394.8	1211.3	1066.9	1003.3	988.6
62.5°	7982.3	4864.8	922.5	947.0	1040.0	1238.2	1323.9	1169.7	1020.4	976.4	944.6
65°	6545.9	4000.9	861.4	880.9	966.6	1150.1	1279.8	1123.2	978.8	937.2	934.8
67.5°	4534.4	2757.8	812.4	849.1	907.9	1086.5	1235.8	1071.8	925.0	910.3	890.7
70°	2322.3	1470.7	748.8	778.2	844.2	1005.7	1157.5	1018.0	868.7	866.3	841.8
72.5°	1177.0	861.4	675.4	719.4	765.9	900.5	1059.6	947.0	797.7	770.8	731.7
73°	1018.0	797.7	663.2	702.3	746.4	871.2	1030.2	929.9	788.0	748.8	712.1
75°	741.5	628.9	594.6	633.8	668.0	785.5	932.3	851.6	724.3	682.7	648.5
77.5°	555.5	484.5	494.3	538.4	567.7	677.8	829.6	770.8	655.8	599.5	584.8
80°	408.7	369.5	408.7	450.3	472.3	597.1	756.1	668.0	553.0	489.4	477.2
82.5°	291.2	269.2	315.7	342.6	352.4	494.3	680.3	533.5	418.4	335.2	308.3
85°	166.4	164.0	212.9	210.4	217.8	288.8	447.8	354.8	269.2	205.6	200.7
87.5°	73.4	80.8	107.7	85.6	90.5	137.0	190.9	132.1	110.1	61.2	46.5
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)