

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: P483203

Luminaire Tested: **IFLD-S-SA6B-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483203
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

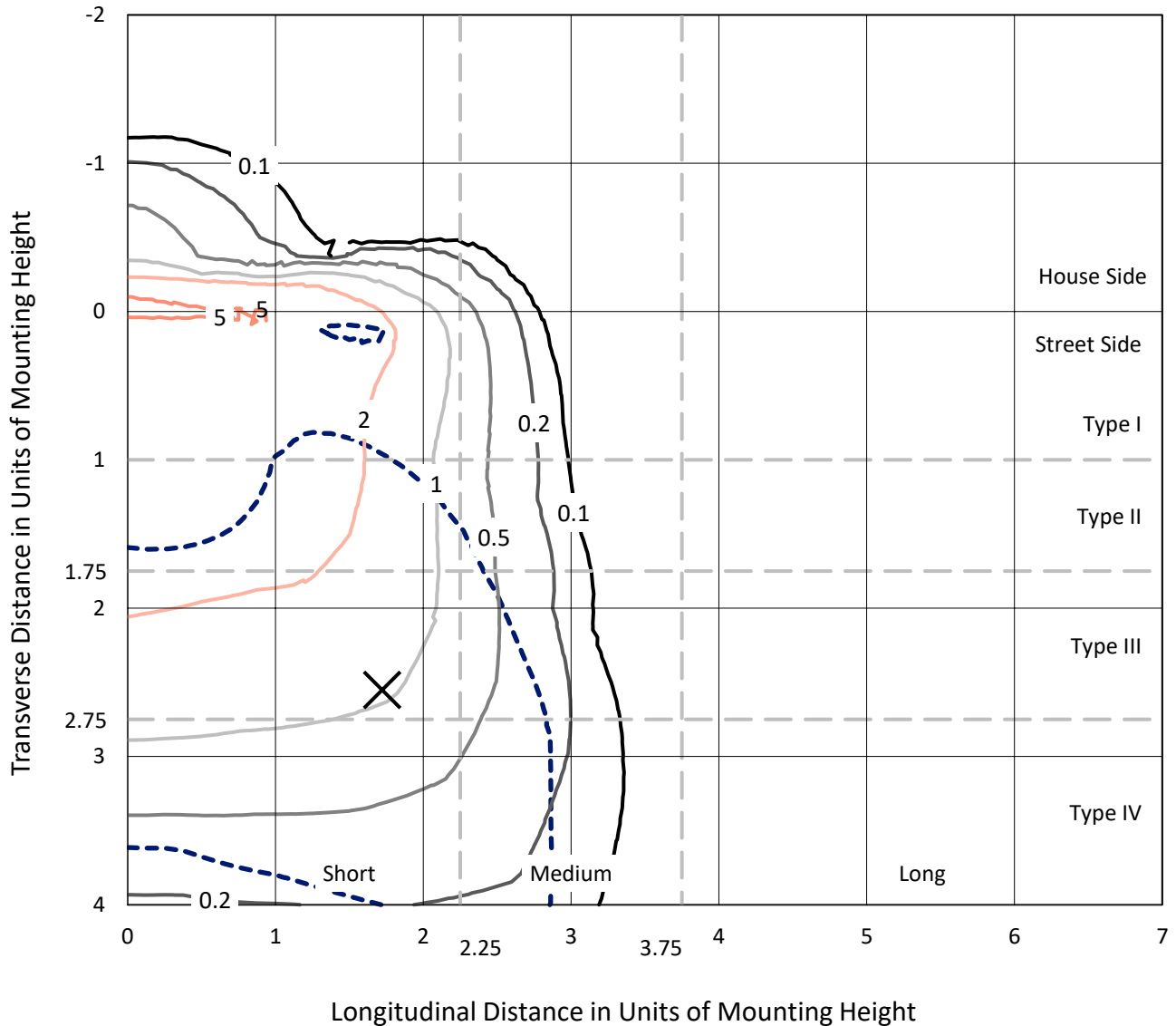
Lumens per Lamp: N/A
Luminaire Lumens: 23805.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

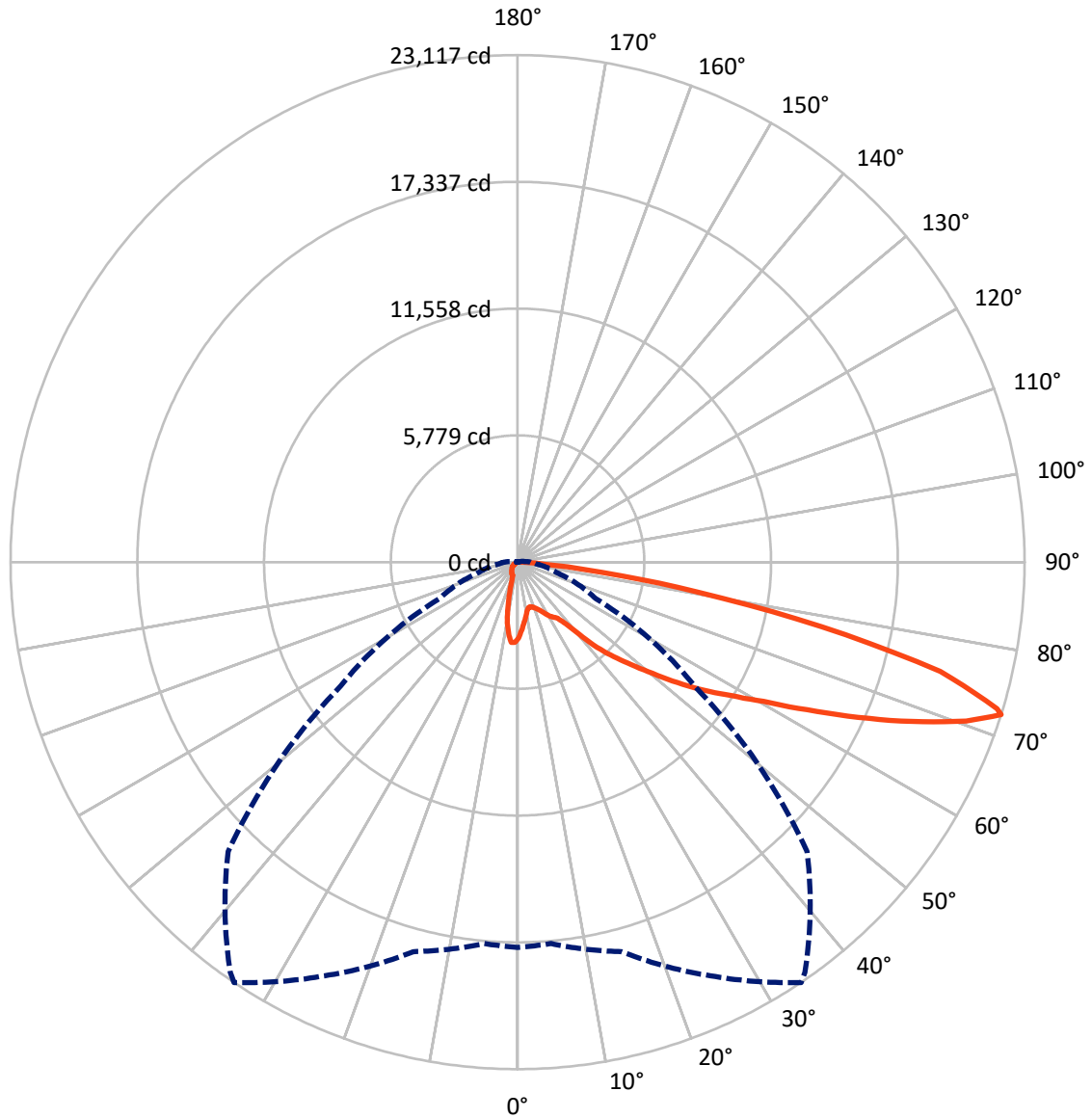
× Max cd
 - - - 1/2 Max cd



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 72-Deg Vertical

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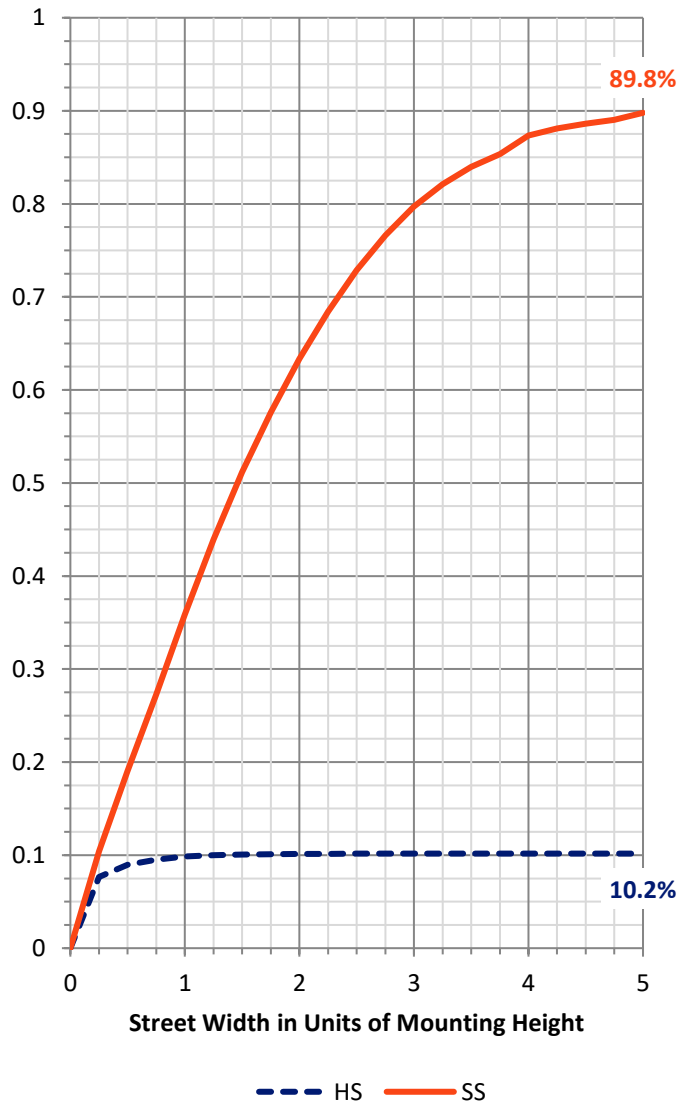
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2437.1	0.0	2437.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	21368.6	0.0	21368.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	23805.8	0.0	23805.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.3
10°-20°	684.5	2.9
20°-30°	1033.2	4.3
30°-40°	1676.6	7.0
40°-50°	3152.8	13.2
50°-60°	5154.9	21.7
60°-70°	6852.7	28.8
70°-80°	4589.2	19.3
80°-90°	359.6	1.5
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°	23805.8	100.0
0°-180°	23805.8	100.0

Coefficient of Utilization

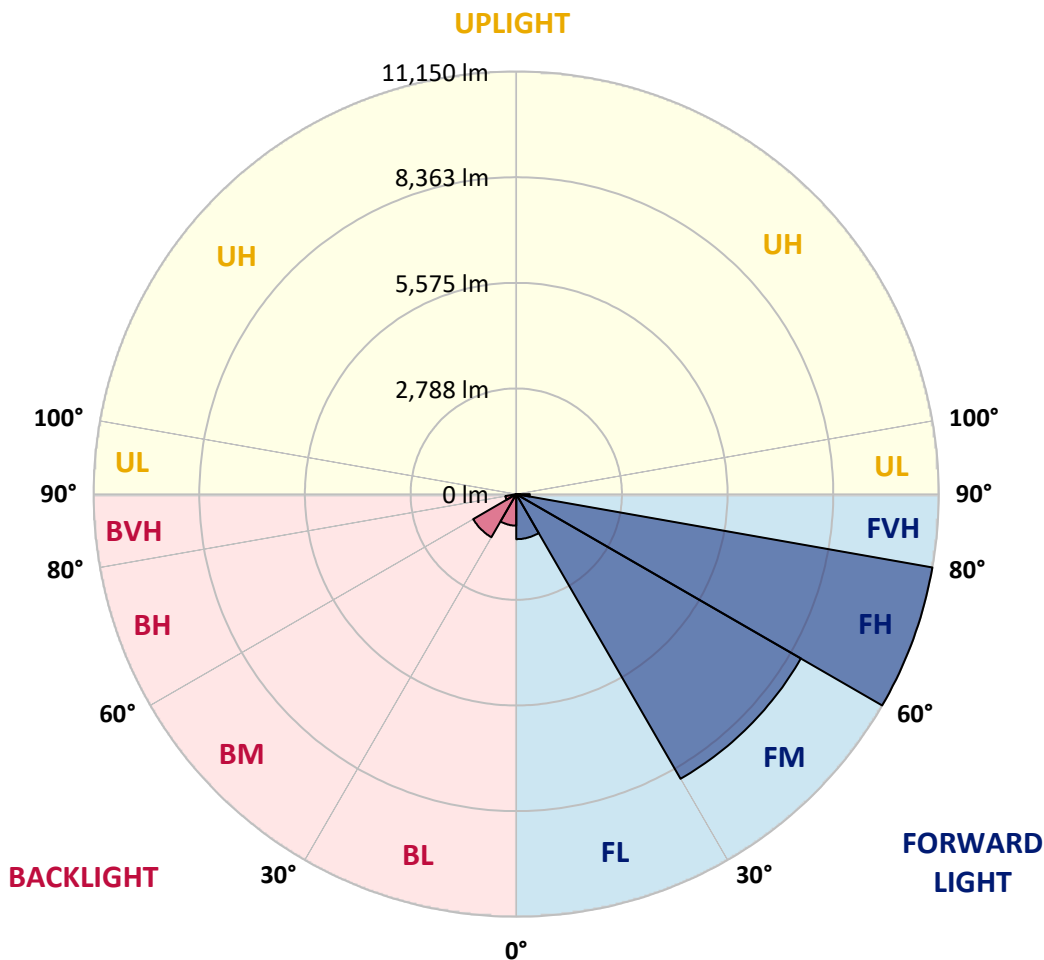


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1188.4	5.0			
FM (30°-60°)	8672.4	36.4			
FH (60°-80°)	11150.4	46.8			G4/12000
FVH (80°-90°)	357.4	1.5			G3/500
BL (0°-30°)	831.6	3.5	B2/1000		
BM (30°-60°)	1311.9	5.5	B2/2500		
BH (60°-80°)	291.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8
2.5°	3080.1	3073.3	3093.9	3128.3	3162.7	3149.0	3214.4	3283.2	3331.4	3396.8	3475.9
5°	2691.3	2708.5	2729.1	2797.9	2842.7	2853.0	2973.5	3062.9	3210.9	3362.3	3503.5
7.5°	2336.8	2357.4	2398.7	2474.4	2567.4	2591.5	2711.9	2890.9	3083.6	3283.2	3513.8
10°	2078.7	2099.3	2144.1	2192.2	2316.1	2316.1	2481.3	2729.1	2980.3	3214.4	3517.2
12.5°	2023.6	2033.9	2030.5	2068.3	2147.5	2164.7	2326.5	2598.3	2890.9	3190.3	3572.3
15°	2089.0	2095.9	2061.5	2040.8	2109.6	2126.8	2278.3	2519.2	2832.4	3204.0	3661.8
17.5°	2219.8	2195.7	2126.8	2095.9	2154.4	2164.7	2305.8	2515.7	2825.5	3241.9	3765.0
20°	2295.5	2323.0	2202.6	2144.1	2226.7	2240.4	2391.8	2570.8	2859.9	3307.3	3909.5
22.5°	2429.7	2443.5	2281.7	2243.9	2323.0	2323.0	2495.1	2680.9	2942.5	3414.0	4081.6
25°	2619.0	2601.8	2412.5	2374.6	2450.4	2481.3	2653.4	2856.4	3069.8	3513.8	4239.9
27.5°	2767.0	2777.3	2622.4	2522.6	2650.0	2670.6	2856.4	3045.7	3166.2	3596.4	4432.7
30°	2987.2	2966.6	2801.4	2687.8	2846.1	2849.6	3028.5	3224.7	3352.0	3744.4	4721.7
32.5°	3248.8	3207.5	3018.2	2856.4	2983.8	3014.8	3197.2	3482.8	3641.1	4023.1	5169.1
35°	3802.9	3703.1	3393.3	3142.1	3152.4	3166.2	3448.4	3857.9	4040.3	4377.6	5768.0
37.5°	4611.6	4570.3	4219.3	3740.9	3558.5	3517.2	3833.8	4353.5	4580.6	4845.6	6545.7
40°	5413.5	5355.0	5028.0	4666.7	4336.3	4253.7	4412.0	5010.8	5217.3	5496.1	7344.2
42.5°	6304.8	6201.6	5816.1	5523.6	5317.1	5227.6	5165.7	5836.8	6070.8	6260.1	8125.4
45°	7206.5	7037.9	6480.4	6256.7	6146.5	6098.3	6091.5	6876.1	7017.2	7055.1	8992.6
47.5°	7998.1	7815.7	7309.8	7058.5	6975.9	6962.2	7347.6	8073.8	7963.6	7863.8	9959.7
50°	8607.2	8490.2	8125.4	8035.9	7974.0	7949.9	8851.5	9305.8	8796.5	8621.0	10809.8
52.5°	9550.2	9288.6	8875.6	8906.6	9123.4	9126.9	10376.1	10475.9	9488.2	9140.6	11611.6
55°	10303.9	10131.8	9794.5	9749.8	10321.1	10383.0	11742.4	11363.8	9873.7	9636.2	11907.6
57.5°	11191.8	11112.6	10868.3	10875.2	11474.0	11604.7	12957.3	12114.1	10193.7	9956.3	11952.3
60°	12475.5	12248.3	12121.0	12179.5	12885.0	13012.3	14134.3	12654.4	10348.6	10166.2	11842.2
62.5°	13893.3	13628.4	13490.7	13790.1	14819.1	14839.8	15029.0	13132.8	10252.2	10221.3	11133.3
65°	15600.3	15338.8	15228.7	15830.9	17052.7	16976.9	16285.2	13335.8	9945.9	9667.2	9271.4
67.5°	17300.4	17142.1	16915.0	17875.2	19396.3	19396.3	17589.5	13260.1	9144.1	7760.6	6063.9
70°	18105.8	18215.9	18577.2	20084.6	21698.7	21533.5	18876.6	12389.4	6807.3	4167.7	2385.0
72°	17568.9	17455.3	18388.0	20807.3	23116.6	22844.7	18659.8	9849.6	3933.6	1827.4	829.4
72.5°	16646.6	16753.2	18036.9	20707.5	22851.6	23075.3	18129.8	9085.6	3235.0	1455.8	626.4
75°	10207.5	10389.9	13463.2	17582.6	19912.5	19661.3	14024.1	4329.4	1242.4	619.5	223.7
77.5°	3727.1	3878.6	6532.0	11064.4	14161.8	14003.5	8115.1	1538.4	674.5	461.2	113.6
80°	970.5	1049.7	2219.8	5103.7	8328.4	8338.8	3396.8	616.0	457.7	378.6	68.8
82.5°	192.7	213.4	681.4	1985.7	3892.3	3840.7	1073.7	330.4	344.2	309.7	48.2
85°	24.1	31.0	144.5	674.5	1259.6	1128.8	265.0	165.2	254.7	240.9	31.0
87.5°	3.4	3.4	34.4	154.9	265.0	258.1	55.1	51.6	113.6	148.0	17.2
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°	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8	3482.8
2.5°	3520.7	3534.4	3582.6	3623.9	3672.1	3685.9	3665.2	3699.6	3651.4	3679.0	3685.9
5°	3527.5	3606.7	3696.2	3754.7	3740.9	3706.5	3679.0	3586.0	3520.7	3496.6	3548.2
7.5°	3575.7	3665.2	3761.6	3761.6	3685.9	3506.9	3334.8	3169.6	3032.0	2963.1	3021.6
10°	3637.7	3730.6	3830.4	3699.6	3417.4	3090.5	2846.1	2536.4	2326.5	2216.3	2226.7
12.5°	3720.3	3851.0	3885.5	3582.6	3114.6	2629.3	2185.4	1755.2	1555.6	1397.3	1400.7
15°	3827.0	3954.3	3851.0	3327.9	2729.1	2013.3	1479.8	1070.3	912.0	829.4	829.4
17.5°	3968.1	4064.4	3840.7	3093.9	2209.4	1376.6	908.6	722.7	688.3	674.5	674.5
20°	4133.2	4205.5	3740.9	2729.1	1641.6	884.5	667.7	647.0	650.4	643.6	643.6
22.5°	4319.1	4343.2	3627.3	2305.8	1111.6	653.9	622.9	626.4	629.8	622.9	626.4
25°	4515.3	4449.9	3462.2	1810.2	739.9	595.4	602.3	609.1	612.6	616.0	616.0
27.5°	4735.5	4604.7	3231.6	1325.0	578.2	561.0	581.6	602.3	605.7	605.7	602.3
30°	5059.0	4842.2	3007.9	898.2	509.3	523.1	557.5	581.6	598.8	598.8	595.4
32.5°	5468.5	5090.0	2694.7	612.6	471.5	478.4	505.9	554.1	591.9	595.4	585.1
35°	6036.4	5389.4	2367.8	488.7	444.0	447.4	464.6	502.5	567.8	588.5	585.1
37.5°	6635.2	5730.1	1961.7	440.5	423.3	419.9	430.2	461.2	519.7	571.3	574.7
40°	7271.9	6088.0	1534.9	416.4	406.1	399.2	402.7	416.4	461.2	526.6	540.3
42.5°	7870.7	6411.5	1152.9	392.3	388.9	382.0	382.0	385.4	409.5	454.3	461.2
45°	8517.7	6676.5	877.6	375.1	364.8	368.2	354.5	347.6	364.8	368.2	364.8
47.5°	9123.4	6941.5	702.1	354.5	344.2	344.2	326.9	313.2	313.2	282.2	278.8
50°	9691.3	7086.1	561.0	326.9	323.5	320.1	296.0	271.9	251.2	213.4	206.5
52.5°	10162.8	7079.2	433.6	292.5	302.9	292.5	254.7	220.3	189.3	154.9	148.0
55°	10303.9	6748.8	326.9	240.9	258.1	244.3	203.0	172.1	137.7	110.1	106.7
57.5°	10183.4	6246.3	247.8	185.8	199.6	185.8	154.9	127.3	96.4	75.7	68.8
60°	9780.8	5657.8	192.7	144.5	151.4	141.1	117.0	96.4	68.8	48.2	41.3
62.5°	9016.7	4921.4	148.0	113.6	110.1	110.1	89.5	72.3	48.2	27.5	24.1
65°	7399.2	3837.3	113.6	79.2	79.2	79.2	68.8	51.6	31.0	13.8	6.9
67.5°	4646.0	2233.5	92.9	61.9	58.5	58.5	48.2	34.4	17.2	3.4	0.0
70°	1748.3	819.1	72.3	48.2	44.7	44.7	34.4	20.6	10.3	0.0	0.0
72°	602.3	313.2	58.5	34.4	34.4	31.0	24.1	17.2	6.9	0.0	0.0
72.5°	495.6	251.2	55.1	34.4	31.0	31.0	24.1	17.2	6.9	0.0	0.0
75°	179.0	103.2	37.9	24.1	20.6	20.6	17.2	10.3	3.4	0.0	0.0
77.5°	89.5	65.4	31.0	20.6	17.2	10.3	10.3	6.9	3.4	0.0	0.0
80°	55.1	41.3	17.2	13.8	10.3	6.9	3.4	3.4	0.0	0.0	0.0
82.5°	37.9	24.1	10.3	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
85°	24.1	10.3	6.9	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)