

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: P484242

Luminaire Tested: **IFLD-S-SA3C-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484242
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

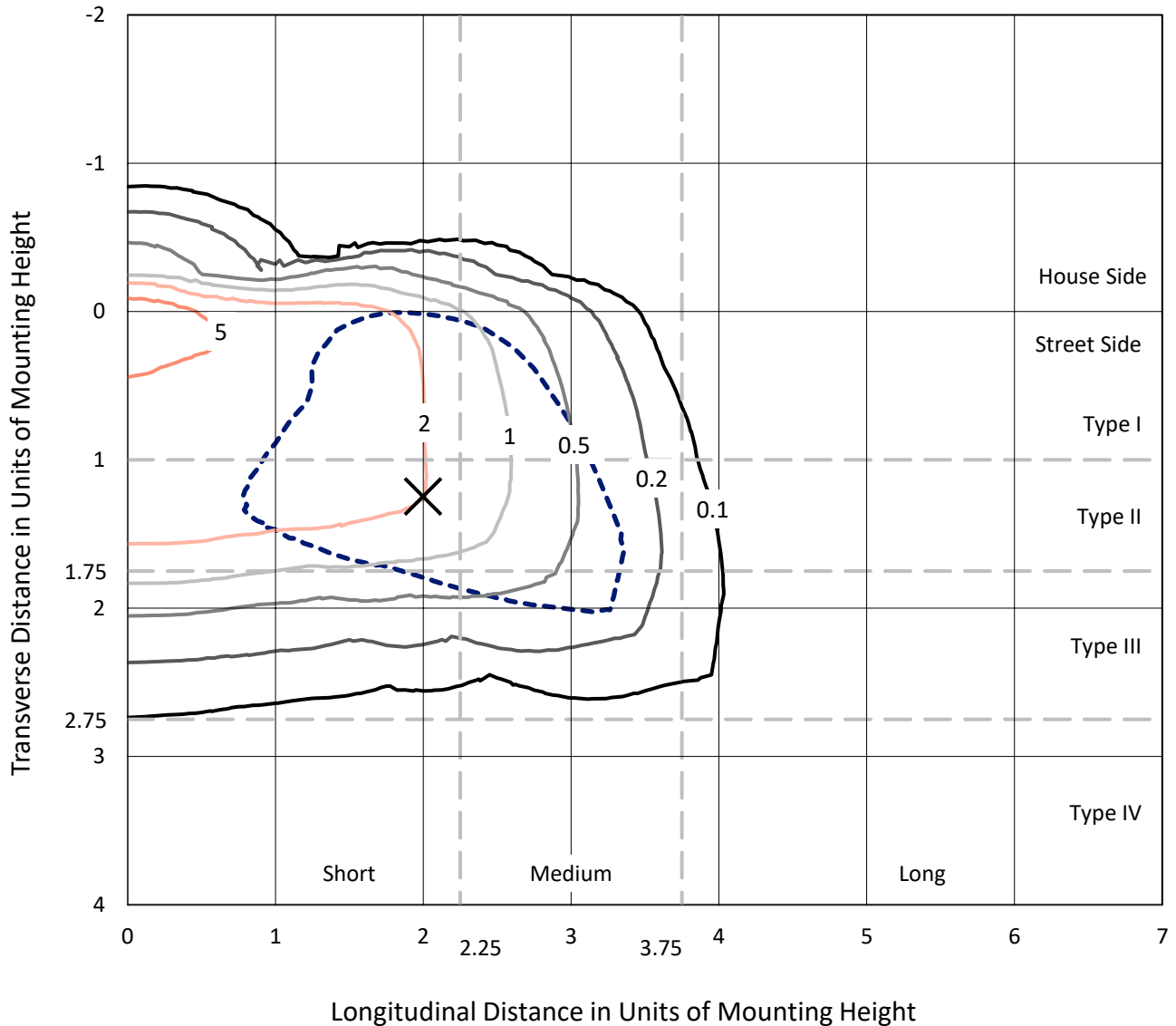
Lumens per Lamp: N/A
Luminaire Lumens: 13048.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

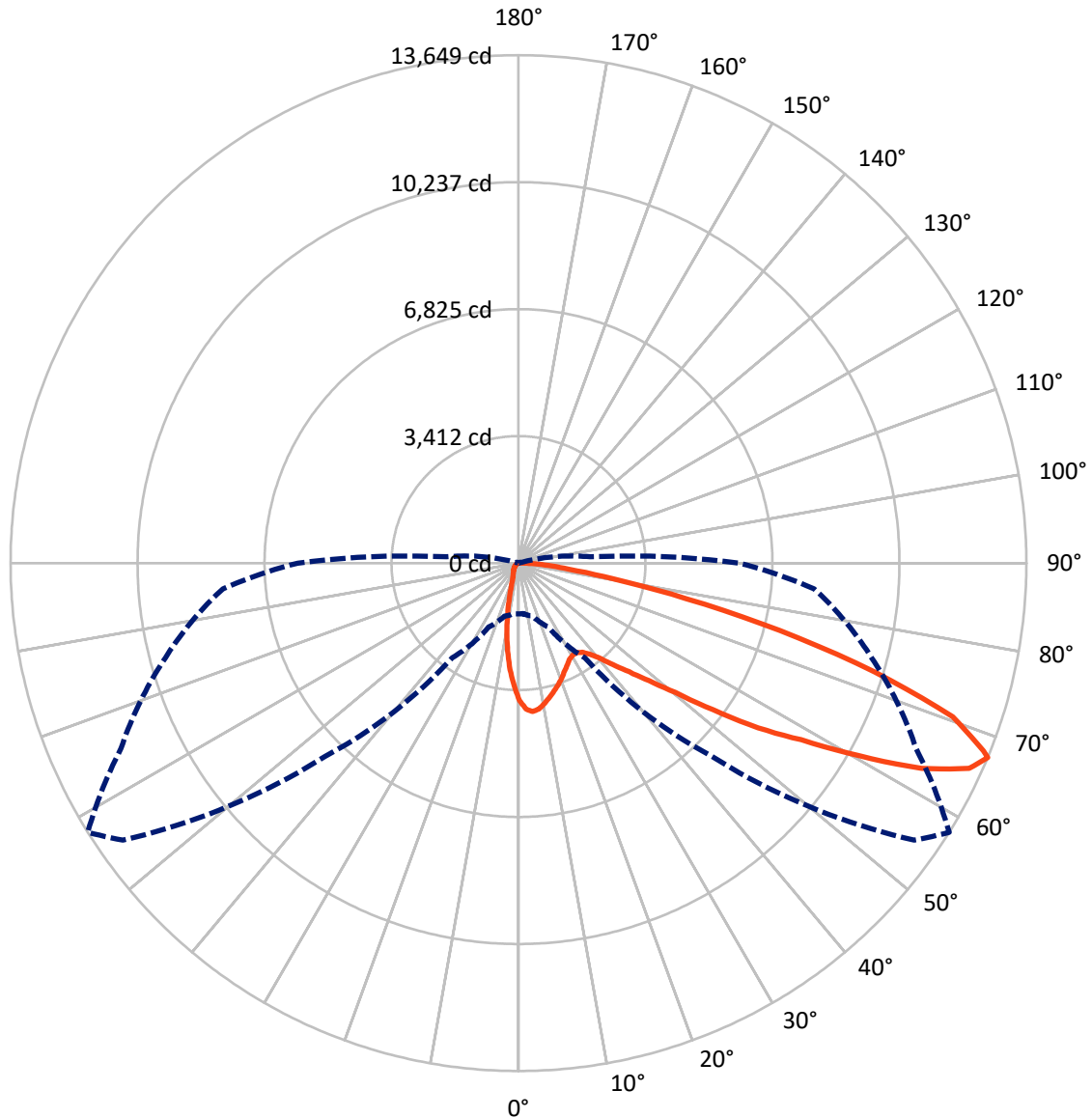
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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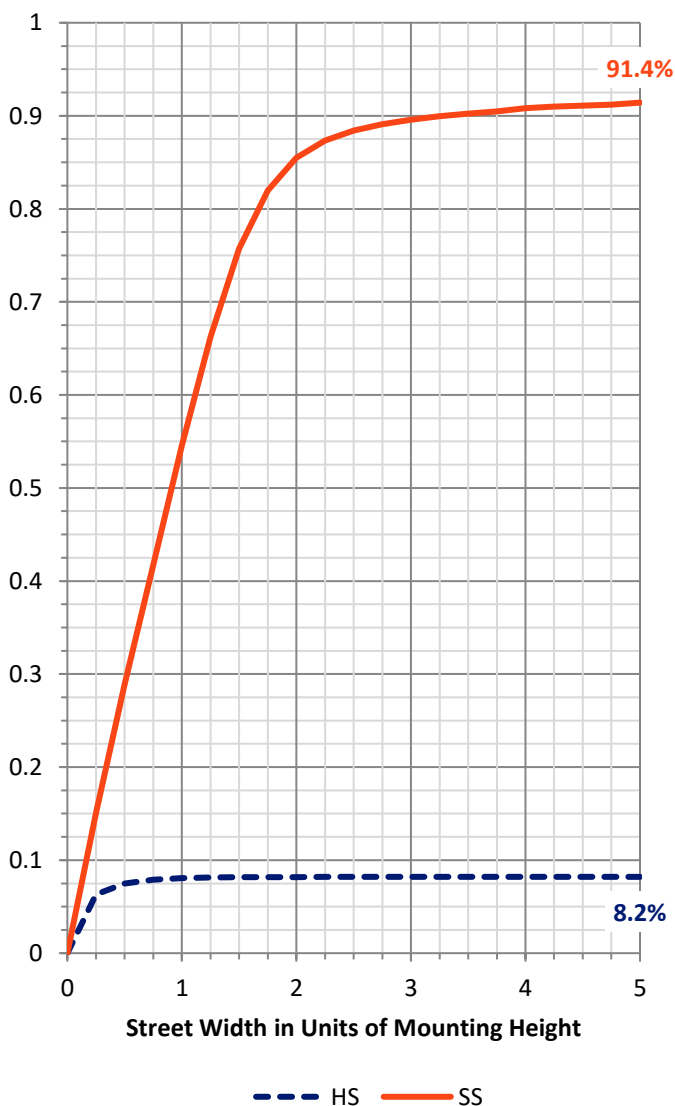
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1078.5	0.0	1078.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	11969.9	0.0	11969.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	13048.4	0.0	13048.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.3	2.2
10°-20°	608.4	4.7
20°-30°	807.2	6.2
30°-40°	1118.6	8.6
40°-50°	1825.2	14.0
50°-60°	3208.0	24.6
60°-70°	3553.2	27.2
70°-80°	1472.4	11.3
80°-90°	162.1	1.2
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°	13048.4	100.0
0°-180°	13048.4	100.0

Coefficient of Utilization



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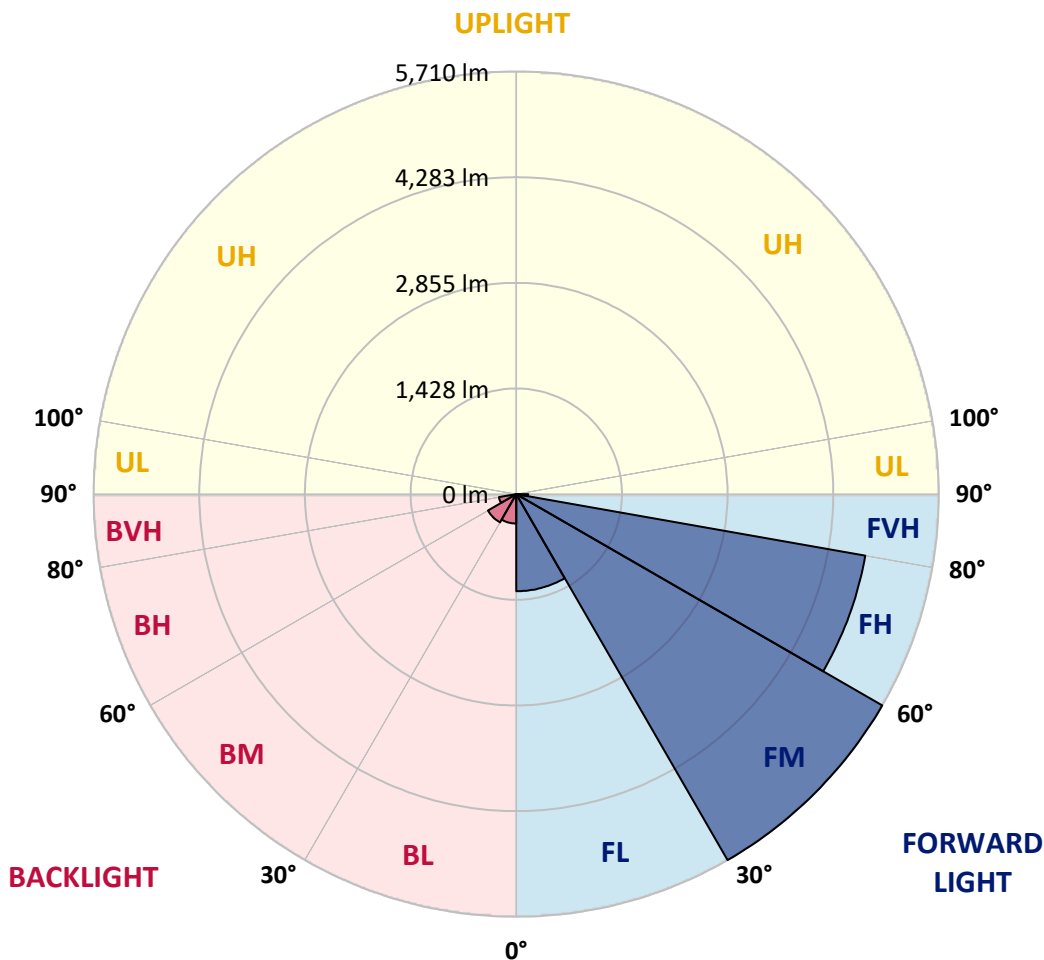
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.7	10.1			
FM (30°-60°)	5710.3	43.8			
FH (60°-80°)	4788.5	36.7			G2/5000
FVH (80°-90°)	159.4	1.2			G2/225
BL (0°-30°)	397.2	3.0	B1/500		
BM (30°-60°)	441.5	3.4	B1/1000		
BH (60°-80°)	237.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8
2.5°	4022.5	4036.3	4048.5	4025.9	4045.0	4017.3	3946.3	3930.7	3918.5	3812.9	3752.2
5°	4020.7	4005.1	4017.3	4027.7	4001.7	4022.5	4005.1	4006.9	3960.1	3864.8	3695.1
7.5°	3752.2	3745.3	3752.2	3802.5	3859.6	3904.7	3930.7	3956.6	3925.5	3783.4	3618.8
10°	3390.2	3424.8	3443.9	3534.0	3622.3	3705.5	3786.9	3835.4	3826.7	3769.6	3535.7
12.5°	3137.3	3126.9	3196.2	3255.1	3343.4	3511.4	3653.5	3698.5	3750.5	3670.8	3426.6
15°	2903.4	2875.7	2917.2	3019.5	3170.2	3303.6	3502.8	3570.3	3636.2	3657.0	3367.7
17.5°	2679.9	2693.8	2737.1	2828.9	2970.9	3158.0	3345.1	3442.1	3599.8	3572.1	3279.3
20°	2572.5	2602.0	2617.6	2664.3	2763.1	2950.2	3229.1	3307.0	3475.1	3570.3	3192.7
22.5°	2577.7	2577.7	2541.3	2569.0	2659.1	2804.6	3071.4	3158.0	3424.8	3480.3	3114.7
25°	2633.1	2598.5	2600.2	2567.3	2605.4	2685.1	2929.4	3035.0	3322.6	3488.9	3073.2
27.5°	2674.7	2667.8	2657.4	2648.7	2600.2	2612.4	2835.8	2922.4	3282.8	3478.5	3009.1
30°	2825.4	2794.3	2783.9	2764.8	2700.7	2641.8	2761.3	2870.5	3251.6	3502.8	2972.7
32.5°	2951.9	2957.1	2965.8	2910.3	2854.9	2709.4	2782.1	2868.7	3229.1	3558.2	3009.1
35°	3111.3	3133.8	3137.3	3119.9	3061.0	2917.2	2868.7	2943.2	3267.2	3657.0	3012.5
37.5°	3353.8	3329.5	3395.4	3402.3	3360.7	3170.2	3069.7	3099.1	3379.8	3814.6	3144.2
40°	3511.4	3540.9	3663.9	3740.1	3669.1	3495.8	3360.7	3355.5	3542.6	4062.3	3307.0
42.5°	3686.4	3752.2	3887.4	4051.9	4043.3	3882.2	3745.3	3722.8	3831.9	4420.9	3565.1
45°	3925.5	3984.4	4173.2	4420.9	4556.0	4419.2	4213.0	4168.0	4183.6	4909.4	4005.1
47.5°	4322.2	4306.6	4578.6	4822.8	5044.5	4938.9	4850.5	4718.9	4706.7	5484.6	4613.2
50°	4770.8	4767.4	5009.9	5287.1	5543.5	5749.6	5602.4	5458.6	5462.0	6265.8	5328.7
52.5°	5197.0	5264.6	5526.1	5801.6	6241.6	6463.3	6605.4	6548.2	6272.8	6964.0	6094.3
55°	5422.2	5481.1	5740.9	6215.6	6910.3	7480.2	7864.8	7816.3	7284.5	7750.4	6849.6
57.5°	5209.1	5249.0	5600.6	6222.5	7378.0	8649.5	9018.5	8957.9	8330.8	8351.6	7762.6
60°	4317.0	4379.3	4902.5	5631.8	7196.1	9550.3	10607.1	10515.3	9283.6	9112.1	8349.8
62.5°	2990.0	3031.6	3461.2	4368.9	6333.4	9863.9	12107.3	12157.5	10288.3	9704.5	8524.8
65°	1936.7	1933.3	2179.3	2794.3	4488.5	8914.6	12994.2	13306.0	11258.4	9794.6	8471.1
67°	1368.5	1363.3	1479.4	1895.2	3107.8	7345.1	12978.6	13649.0	11785.0	9820.6	7973.9
67.5°	1262.9	1257.7	1368.5	1742.7	2804.6	6830.6	12784.6	13472.3	11970.4	9784.2	7755.6
70°	980.5	966.6	1008.2	1200.5	1633.6	4417.4	10941.4	12375.8	11585.8	8876.5	6193.1
72.5°	708.5	724.1	789.9	985.7	1281.9	2376.8	8339.4	10007.7	9676.8	6690.3	3935.9
75°	493.7	507.6	613.2	803.8	1176.3	1441.3	5638.7	7258.5	6740.5	3693.3	1676.9
77.5°	258.1	275.4	391.5	642.7	1068.8	1115.6	3369.4	4602.8	3572.1	1314.8	462.5
80°	119.5	128.2	195.8	455.6	893.9	980.5	1964.5	2560.4	1429.2	294.5	159.4
82.5°	52.0	57.2	90.1	261.6	634.0	857.5	1216.1	1342.6	518.0	95.3	98.7
85°	10.4	12.1	34.6	138.6	306.6	519.7	854.0	796.9	259.8	46.8	78.0
87.5°	0.0	0.0	8.7	39.8	83.2	154.2	362.1	362.1	79.7	24.3	29.4
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°	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8	3696.8
2.5°	3698.5	3636.2	3499.3	3372.8	3282.8	3180.6	3045.4	2984.8	2962.3	2931.1	2884.3
5°	3601.5	3525.3	3291.4	3055.8	2797.7	2602.0	2394.1	2272.8	2181.0	2123.8	2104.8
7.5°	3464.7	3308.8	2993.5	2615.8	2281.5	1990.4	1675.2	1462.1	1325.2	1269.8	1217.8
10°	3355.5	3152.8	2673.0	2203.5	1758.3	1332.2	977.0	789.9	647.9	594.2	587.3
12.5°	3213.5	2970.9	2373.3	1782.6	1223.0	793.4	540.5	469.5	429.6	422.7	417.5
15°	3095.7	2806.4	2089.2	1380.7	791.7	495.4	421.0	403.6	393.2	389.8	391.5
17.5°	3016.0	2629.7	1798.2	1004.8	521.4	405.4	388.0	377.6	372.5	370.7	365.5
20°	2858.3	2480.7	1510.6	703.3	407.1	374.2	360.3	351.7	346.5	344.7	343.0
22.5°	2768.3	2291.9	1223.0	490.2	362.1	339.5	329.1	322.2	313.6	308.4	306.6
25°	2678.2	2153.3	966.6	381.1	329.1	313.6	298.0	289.3	275.4	268.5	266.8
27.5°	2572.5	2016.4	744.9	330.9	296.2	280.6	265.0	251.2	233.9	226.9	223.5
30°	2511.9	1883.0	561.3	296.2	272.0	251.2	232.1	214.8	195.8	183.6	180.2
32.5°	2480.7	1761.8	421.0	270.2	246.0	223.5	199.2	178.4	161.1	150.7	149.0
35°	2442.6	1644.0	330.9	246.0	221.7	197.5	173.2	152.4	135.1	126.5	123.0
37.5°	2482.4	1574.7	275.4	226.9	202.7	175.0	149.0	128.2	114.3	105.7	103.9
40°	2591.6	1517.5	239.1	209.6	183.6	154.2	129.9	109.1	97.0	90.1	86.6
42.5°	2759.6	1517.5	216.5	192.3	166.3	135.1	110.9	95.3	83.2	76.2	74.5
45°	3064.5	1564.3	197.5	175.0	145.5	116.1	95.3	79.7	67.6	60.6	58.9
47.5°	3492.4	1671.7	181.9	159.4	129.9	102.2	83.2	67.6	55.4	48.5	46.8
50°	4067.5	1916.0	166.3	140.3	116.1	88.3	69.3	53.7	43.3	36.4	34.6
52.5°	4784.7	2262.4	150.7	129.9	98.7	74.5	55.4	43.3	32.9	27.7	26.0
55°	5543.5	2686.8	131.7	116.1	84.9	62.4	45.0	32.9	24.3	20.8	19.1
57.5°	6307.4	3014.3	116.1	100.5	69.3	50.2	36.4	26.0	17.3	13.9	12.1
60°	6712.8	3045.4	100.5	83.2	55.4	39.8	27.7	19.1	12.1	8.7	6.9
62.5°	6775.1	2768.3	86.6	67.6	45.0	31.2	19.1	13.9	6.9	3.5	3.5
65°	6454.7	2307.5	74.5	53.7	34.6	22.5	13.9	8.7	3.5	1.7	0.0
67°	5935.0	1933.3	64.1	45.0	27.7	17.3	10.4	5.2	1.7	0.0	0.0
67.5°	5734.0	1829.3	60.6	41.6	26.0	15.6	8.7	5.2	1.7	0.0	0.0
70°	4450.4	1306.2	45.0	29.4	19.1	12.1	6.9	3.5	0.0	0.0	0.0
72.5°	2726.7	764.0	34.6	20.8	13.9	8.7	5.2	1.7	0.0	0.0	0.0
75°	1143.3	263.3	29.4	15.6	10.4	5.2	3.5	1.7	0.0	0.0	0.0
77.5°	298.0	98.7	20.8	10.4	6.9	5.2	3.5	1.7	0.0	0.0	0.0
80°	121.3	45.0	13.9	6.9	6.9	5.2	3.5	1.7	0.0	0.0	0.0
82.5°	79.7	20.8	8.7	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	60.6	12.1	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	6.9	5.2	3.5	3.5	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)