

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: P484967

Luminaire Tested: **IFLD-L-SA7A-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484967  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

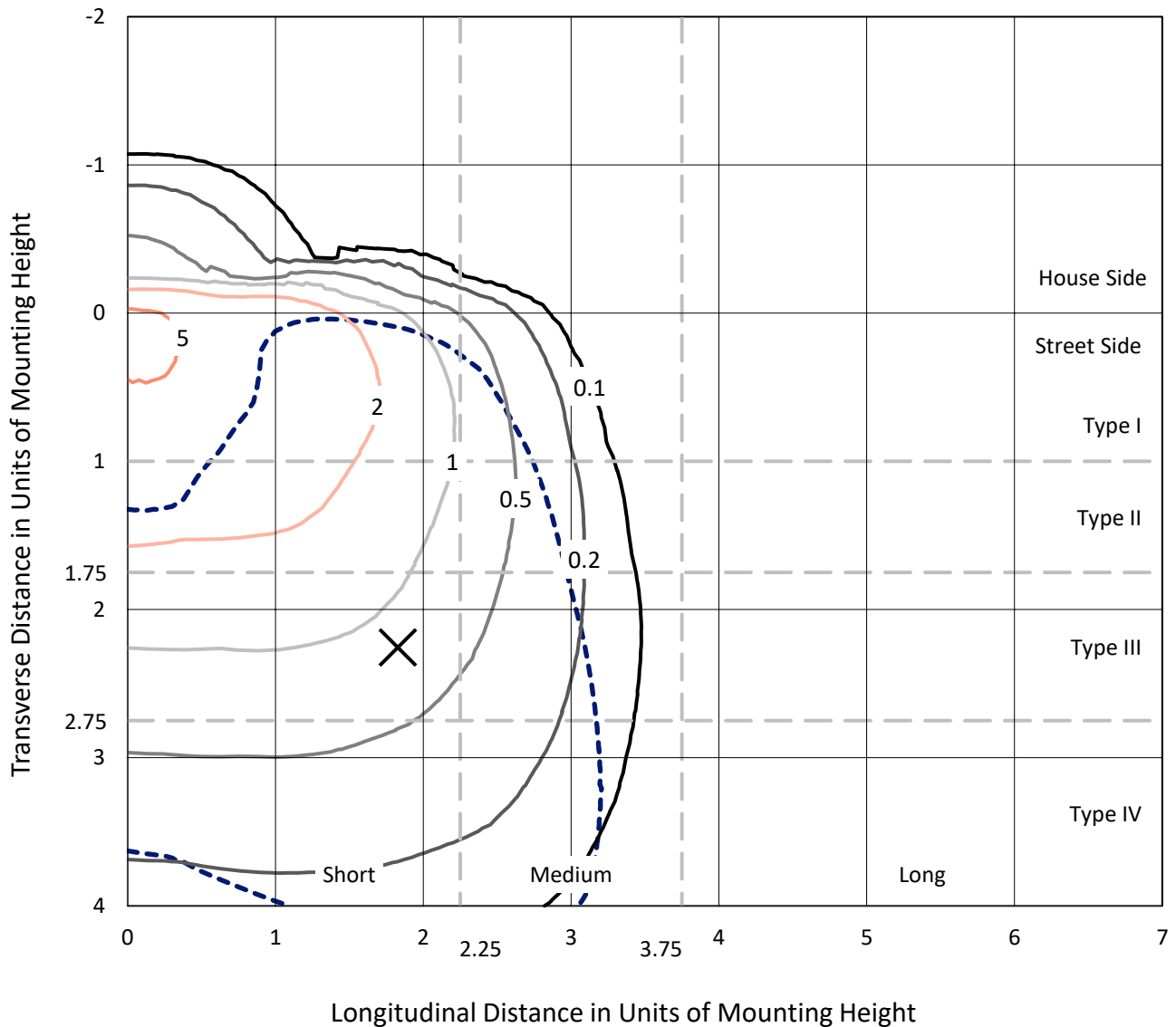
Lumens per Lamp: N/A  
Luminaire Lumens: 20546.7 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
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

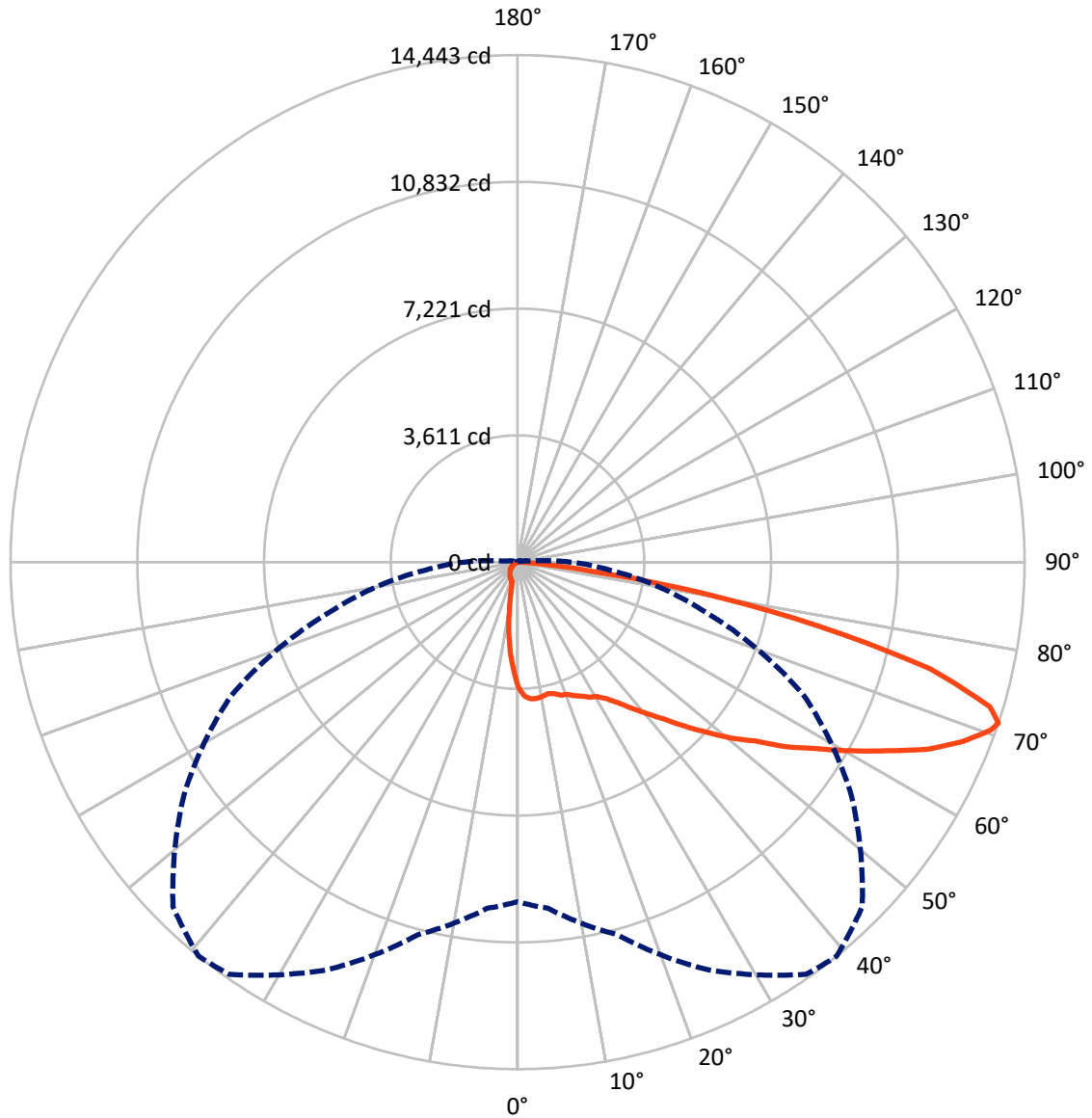
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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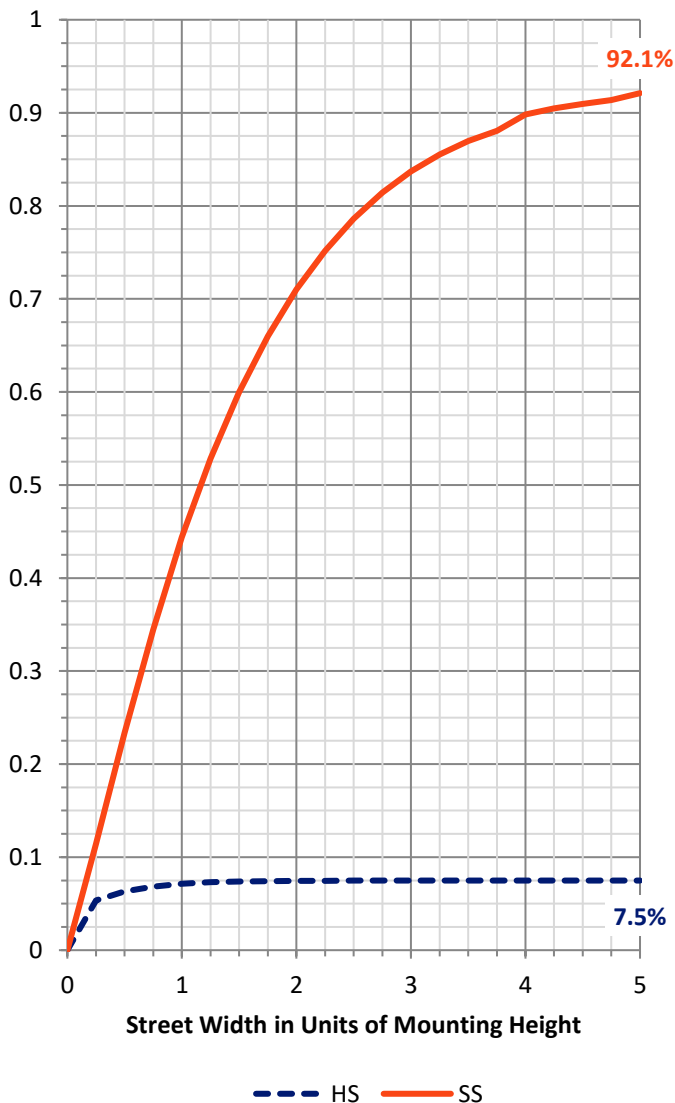
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1546.9	0.0	1546.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	18999.9	0.0	18999.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	20546.7	0.0	20546.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.0	1.5
10°-20°	735.9	3.6
20°-30°	1181.4	5.8
30°-40°	1808.5	8.8
40°-50°	2903.0	14.1
50°-60°	4264.0	20.8
60°-70°	5370.3	26.1
70°-80°	3584.0	17.4
80°-90°	400.5	1.9
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°	20546.7	100.0
0°-180°	20546.7	100.0



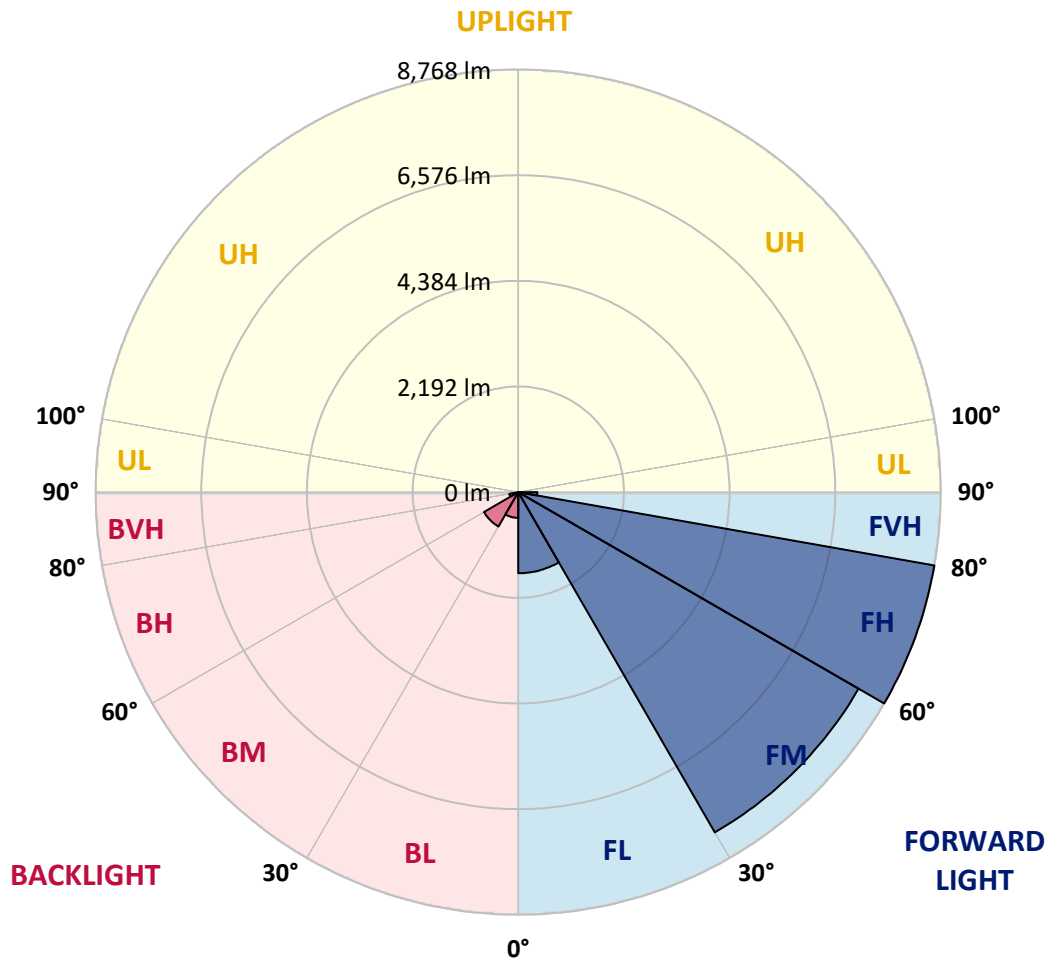
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.3	8.2			
FM (30°-60°)	8153.2	39.7			
FH (60°-80°)	8768.2	42.7			G4/12000
FVH (80°-90°)	396.1	1.9			G3/500
BL (0°-30°)	534.0	2.6	B2/1000		
BM (30°-60°)	822.2	4.0	B1/1000		
BH (60°-80°)	186.2	0.9	B1/500		G1/500
BVH (80°-90°)	4.4	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°	35°	39°	45°	55°	65°	75°	85°
0°	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3
2.5°	3853.9	3891.6	3853.9	3837.7	3821.5	3824.2	3781.1	3789.2	3738.0	3670.6	3616.7
5°	3975.1	4026.4	3985.9	3967.1	3964.4	3913.2	3891.6	3840.4	3778.4	3673.3	3608.6
7.5°	3964.4	3953.6	3972.5	3956.3	3921.2	3921.2	3897.0	3824.2	3762.2	3643.7	3533.2
10°	3883.5	3915.9	3899.7	3880.8	3888.9	3891.6	3845.8	3794.6	3775.7	3657.1	3476.6
12.5°	3875.4	3821.5	3880.8	3883.5	3848.5	3845.8	3840.4	3826.9	3767.6	3659.8	3490.0
15°	3848.5	3826.9	3886.2	3888.9	3897.0	3888.9	3897.0	3886.2	3826.9	3764.9	3549.3
17.5°	3870.0	3845.8	3929.3	3969.8	3950.9	3988.6	3975.1	3926.6	3875.4	3802.7	3605.9
20°	3875.4	3910.5	4002.1	4018.3	4077.6	4015.6	4012.9	3961.7	3929.3	3851.2	3641.0
22.5°	3975.1	3991.3	4104.5	4139.5	4142.2	4134.2	4066.8	4007.5	3994.0	3897.0	3649.0
25°	4126.1	4182.7	4233.9	4255.4	4263.5	4225.8	4155.7	4080.3	4047.9	3985.9	3732.6
27.5°	4392.9	4357.8	4403.7	4436.0	4344.4	4357.8	4268.9	4204.2	4158.4	4104.5	3829.6
30°	4630.0	4597.7	4600.4	4595.0	4516.8	4444.1	4419.8	4306.6	4250.0	4271.6	3980.5
32.5°	4842.9	4772.9	4832.2	4805.2	4659.7	4638.1	4619.3	4476.4	4487.2	4586.9	4206.9
35°	5039.7	5015.4	5063.9	5015.4	4918.4	4913.0	4894.1	4770.2	4829.5	4972.3	4595.0
37.5°	5220.2	5228.3	5287.6	5263.4	5271.4	5276.8	5266.1	5134.0	5303.8	5624.5	5047.8
40°	5387.3	5376.6	5522.1	5597.5	5613.7	5673.0	5673.0	5640.7	5902.1	6263.2	5675.7
42.5°	5565.2	5592.2	5780.8	5907.5	6061.1	6112.3	6182.4	6198.5	6602.8	7015.1	6317.1
45°	5856.3	5810.4	6050.3	6349.5	6484.2	6664.8	6772.6	6864.2	7352.0	7918.0	6958.5
47.5°	6225.5	6133.9	6344.1	6778.0	7090.6	7238.8	7432.8	7554.1	8031.1	8616.0	7564.9
50°	6635.1	6540.8	6643.2	7241.5	7605.3	7874.8	8122.8	8276.4	8853.1	9397.5	8006.9
52.5°	7098.7	7012.4	7028.6	7723.9	8260.2	8457.0	8783.0	9012.1	9586.2	9869.1	8163.2
55°	7591.9	7570.3	7519.1	8195.5	8834.3	9276.2	9473.0	9747.9	10338.1	10125.2	8333.0
57.5°	8087.7	8020.4	8093.1	8820.8	9755.9	10020.1	10292.3	10456.7	10755.8	10348.9	8268.3
60°	8554.0	8559.4	8661.8	9499.9	10540.2	10914.8	11160.1	11060.3	11184.3	10445.9	8120.1
62.5°	8947.4	8936.7	9195.4	10262.6	11577.8	11831.1	12014.4	11569.7	11383.7	10540.2	7861.4
65°	9300.5	9421.8	9828.7	11170.8	12553.4	12844.4	12733.9	12052.1	11577.8	10262.6	7133.7
67.5°	9567.3	9747.9	10454.0	12025.2	13448.1	13652.9	13499.3	12418.6	11348.7	9173.8	5810.4
70°	9723.6	9906.9	10901.3	12736.6	14162.3	14310.5	13949.4	12135.6	10012.0	6643.2	3624.8
71°	9675.1	9898.8	10987.6	12812.1	14332.1	14442.6	13882.0	11612.8	9004.0	5562.5	2643.8
72.5°	9235.8	9446.0	10629.1	12758.2	14127.3	14059.9	13356.5	10356.9	7087.9	3546.6	1366.4
75°	6786.0	7012.4	9122.6	11036.1	12610.0	12146.4	10809.7	7268.5	3697.6	1086.1	398.9
77.5°	3379.5	3417.3	5662.2	8012.3	9249.3	8788.4	7244.2	4053.3	1382.5	320.7	199.4
80°	1557.7	1568.5	2123.7	4150.3	5592.2	5263.4	4058.7	1999.7	625.2	169.8	156.3
82.5°	1061.8	1078.0	1280.1	1719.4	2428.2	2048.2	1644.0	1280.1	358.4	102.4	153.6
85°	194.0	177.9	716.9	910.9	937.9	636.0	568.6	1107.7	134.8	59.3	134.8
87.5°	0.0	2.7	99.7	371.9	334.2	148.2	194.0	269.5	13.5	18.9	24.3
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°	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3	3576.3
2.5°	3570.9	3541.2	3441.5	3331.0	3231.3	3153.2	3053.5	3007.6	2934.9	2894.4	2891.7
5°	3519.7	3438.8	3266.4	3080.4	2872.9	2700.4	2509.1	2401.3	2277.3	2239.6	2231.5
7.5°	3433.4	3317.6	3064.2	2802.8	2484.8	2180.3	1945.8	1695.2	1541.5	1476.9	1452.6
10°	3379.5	3239.4	2894.4	2503.7	2059.0	1630.5	1301.7	1034.9	894.7	827.4	811.2
12.5°	3379.5	3228.6	2757.0	2218.0	1627.8	1115.7	805.8	652.2	606.4	590.2	590.2
15°	3371.5	3207.1	2624.9	1924.2	1204.7	749.2	601.0	568.6	563.3	560.6	557.9
17.5°	3411.9	3169.3	2490.2	1608.9	851.6	590.2	552.5	547.1	541.7	541.7	536.3
20°	3441.5	3147.8	2328.5	1274.7	636.0	547.1	530.9	522.8	520.1	517.4	522.8
22.5°	3417.3	3115.4	2129.1	954.0	555.2	520.1	509.4	501.3	495.9	495.9	498.6
25°	3463.1	3085.8	1929.6	719.6	520.1	495.9	485.1	479.7	477.0	474.3	468.9
27.5°	3525.1	3099.3	1692.5	579.4	490.5	471.6	460.8	455.5	452.8	447.4	452.8
30°	3600.5	3096.6	1431.1	506.7	463.5	444.7	433.9	431.2	425.8	423.1	425.8
32.5°	3729.9	3166.6	1161.6	468.9	433.9	417.7	406.9	404.3	401.6	398.9	396.2
35°	4007.5	3252.9	908.2	439.3	406.9	388.1	380.0	374.6	371.9	369.2	366.5
37.5°	4349.8	3444.2	692.6	412.3	380.0	361.1	353.0	350.4	339.6	336.9	334.2
40°	4778.3	3649.0	533.6	382.7	355.7	336.9	328.8	320.7	307.2	301.8	296.5
42.5°	5311.9	3848.5	439.3	355.7	328.8	315.3	301.8	288.4	277.6	266.8	261.4
45°	5845.5	4080.3	385.4	331.5	307.2	291.1	280.3	261.4	242.6	226.4	223.7
47.5°	6290.2	4163.8	353.0	304.5	285.7	272.2	256.0	231.8	204.8	188.7	186.0
50°	6621.6	4115.3	320.7	277.6	261.4	247.9	226.4	196.7	169.8	153.6	148.2
52.5°	6686.3	3902.4	291.1	256.0	237.2	221.0	196.7	164.4	134.8	118.6	115.9
55°	6640.5	3549.3	266.8	237.2	215.6	191.3	164.4	132.1	105.1	88.9	86.2
57.5°	6546.2	3131.6	239.9	212.9	188.7	164.4	134.8	107.8	78.2	62.0	62.0
60°	6225.5	2563.0	212.9	186.0	161.7	140.1	110.5	78.2	53.9	40.4	37.7
62.5°	5778.1	1970.1	186.0	159.0	140.1	115.9	86.2	56.6	32.3	21.6	21.6
65°	4961.5	1379.8	156.3	132.1	115.9	94.3	64.7	35.0	18.9	8.1	8.1
67.5°	3770.3	854.3	129.4	110.5	99.7	75.5	45.8	21.6	8.1	2.7	0.0
70°	2164.1	444.7	102.4	88.9	78.2	56.6	32.3	10.8	5.4	0.0	0.0
71°	1511.9	328.8	91.6	78.2	70.1	51.2	27.0	8.1	2.7	0.0	0.0
72.5°	757.3	218.3	78.2	64.7	56.6	40.4	21.6	8.1	2.7	0.0	0.0
75°	269.5	140.1	53.9	43.1	40.4	29.6	13.5	5.4	2.7	0.0	0.0
77.5°	186.0	113.2	37.7	27.0	27.0	18.9	8.1	2.7	2.7	0.0	0.0
80°	169.8	62.0	24.3	16.2	13.5	10.8	5.4	2.7	0.0	0.0	0.0
82.5°	169.8	45.8	13.5	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0
85°	118.6	24.3	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	8.1	5.4	2.7	2.7	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)