

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: P484528

Luminaire Tested: **IFLD-S-SA6A-827-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484528  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

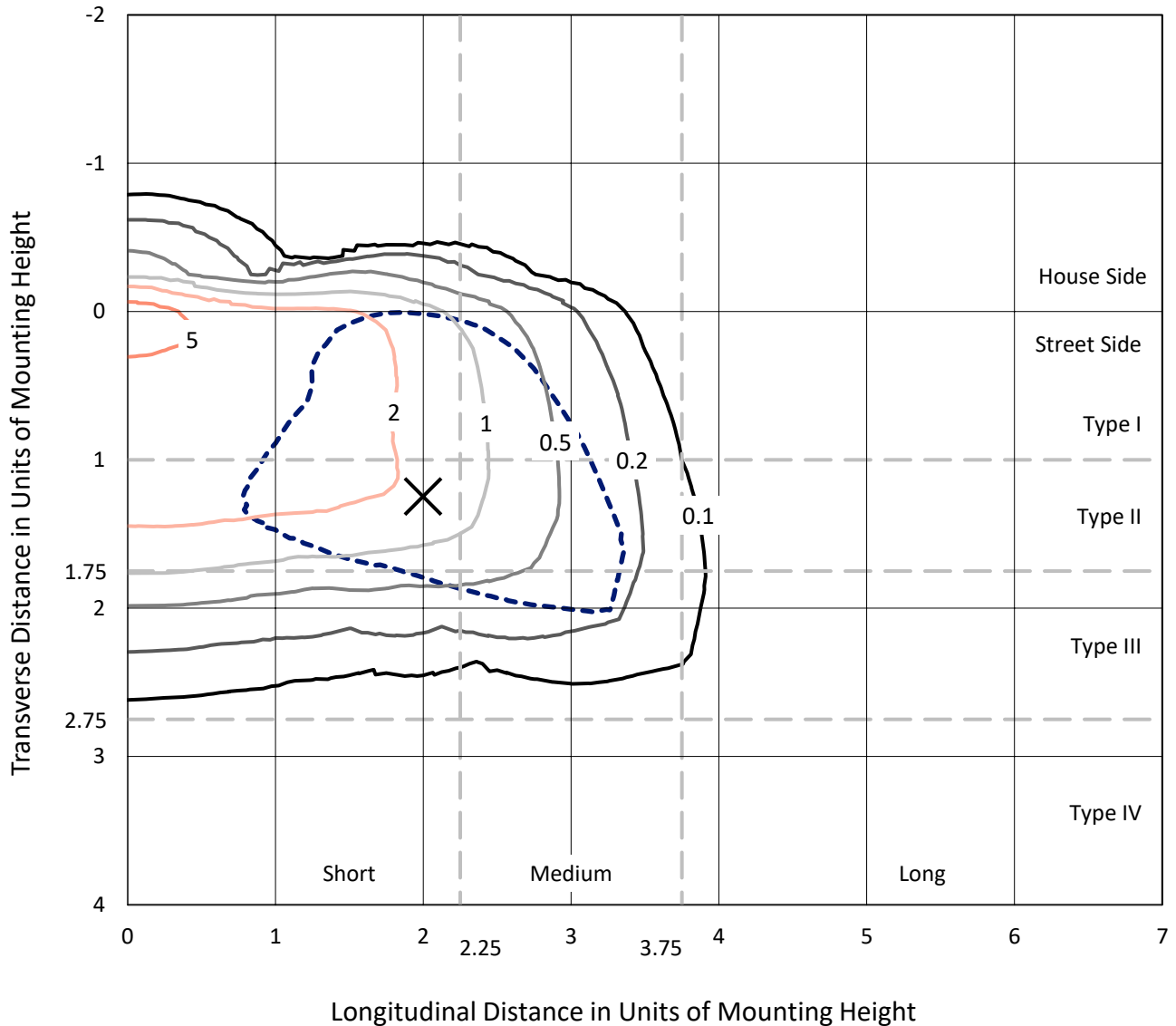
Lumens per Lamp: N/A  
Luminaire Lumens: 16592.3 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6  
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

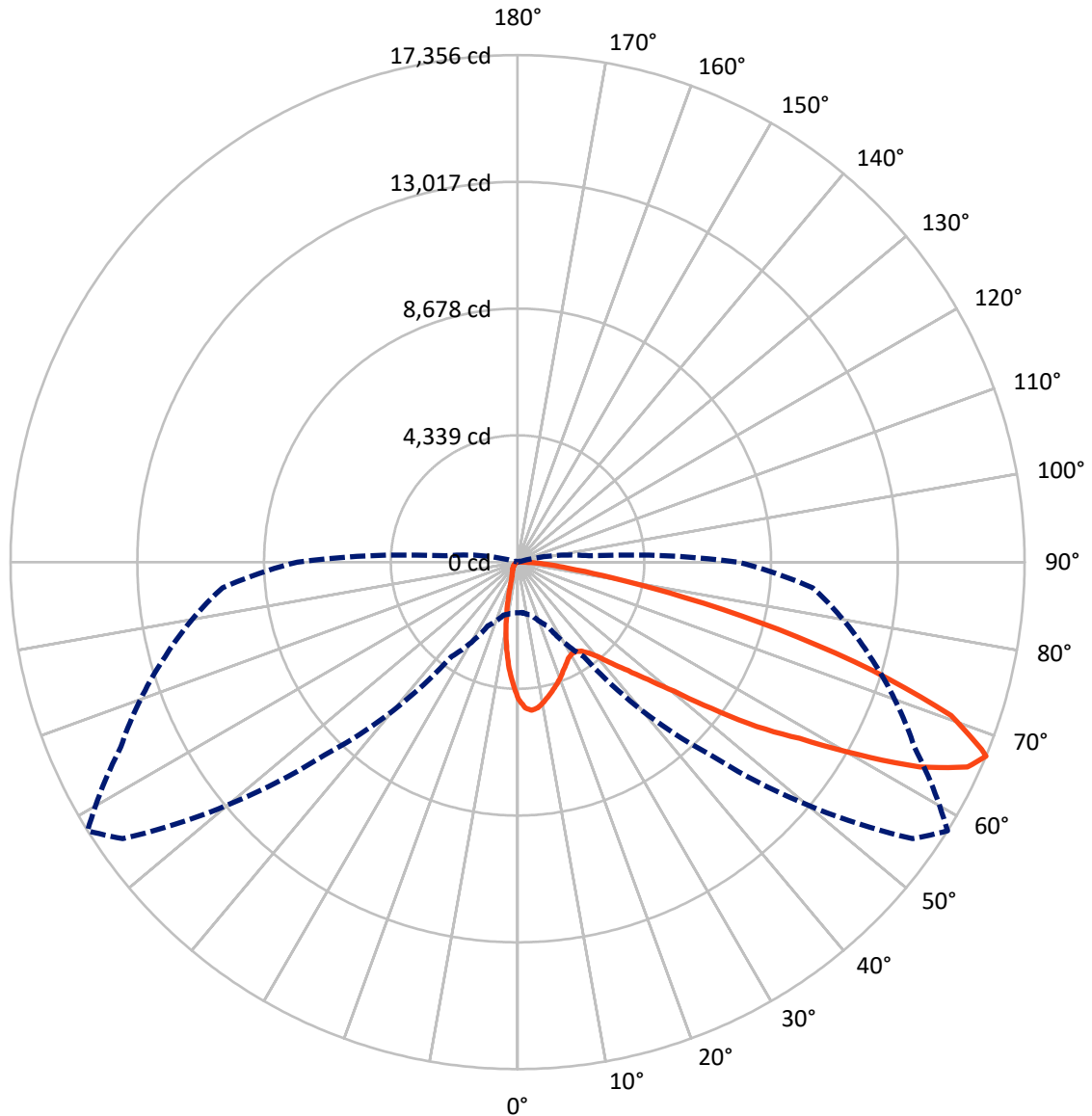
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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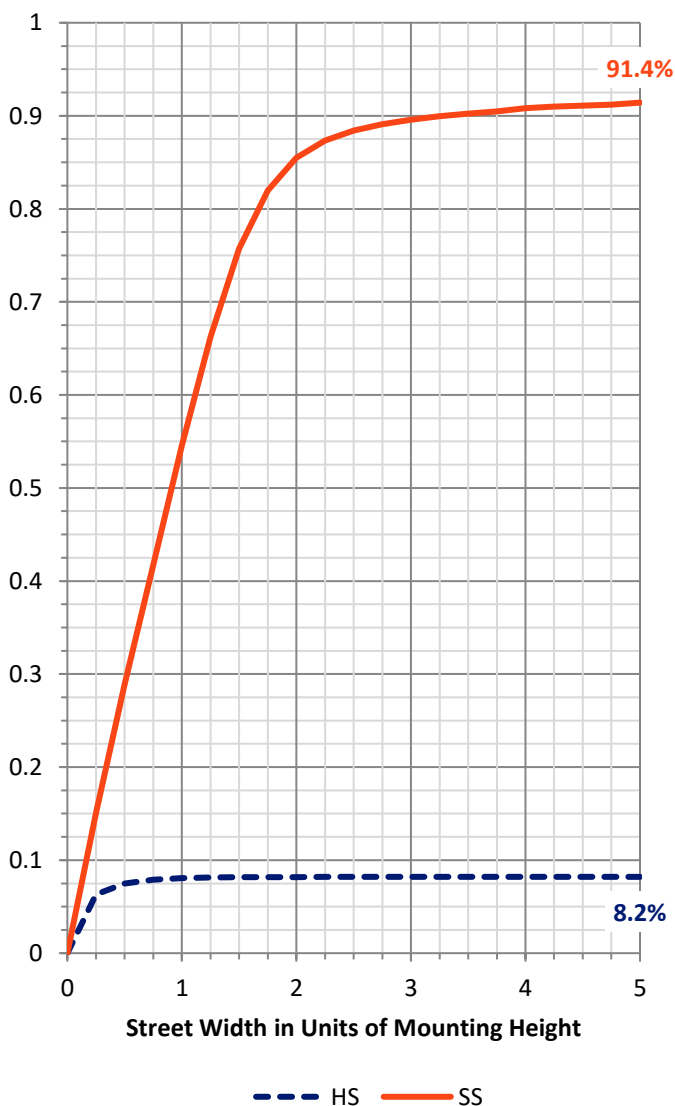
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1371.5	0.0	1371.5
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	15220.9	0.0	15220.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	16592.3	0.0	16592.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.0	2.2
10°-20°	773.7	4.7
20°-30°	1026.5	6.2
30°-40°	1422.4	8.6
40°-50°	2320.9	14.0
50°-60°	4079.4	24.6
60°-70°	4518.2	27.2
70°-80°	1872.3	11.3
80°-90°	206.1	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°	16592.3	100.0
0°-180°	16592.3	100.0

**Coefficient of Utilization**



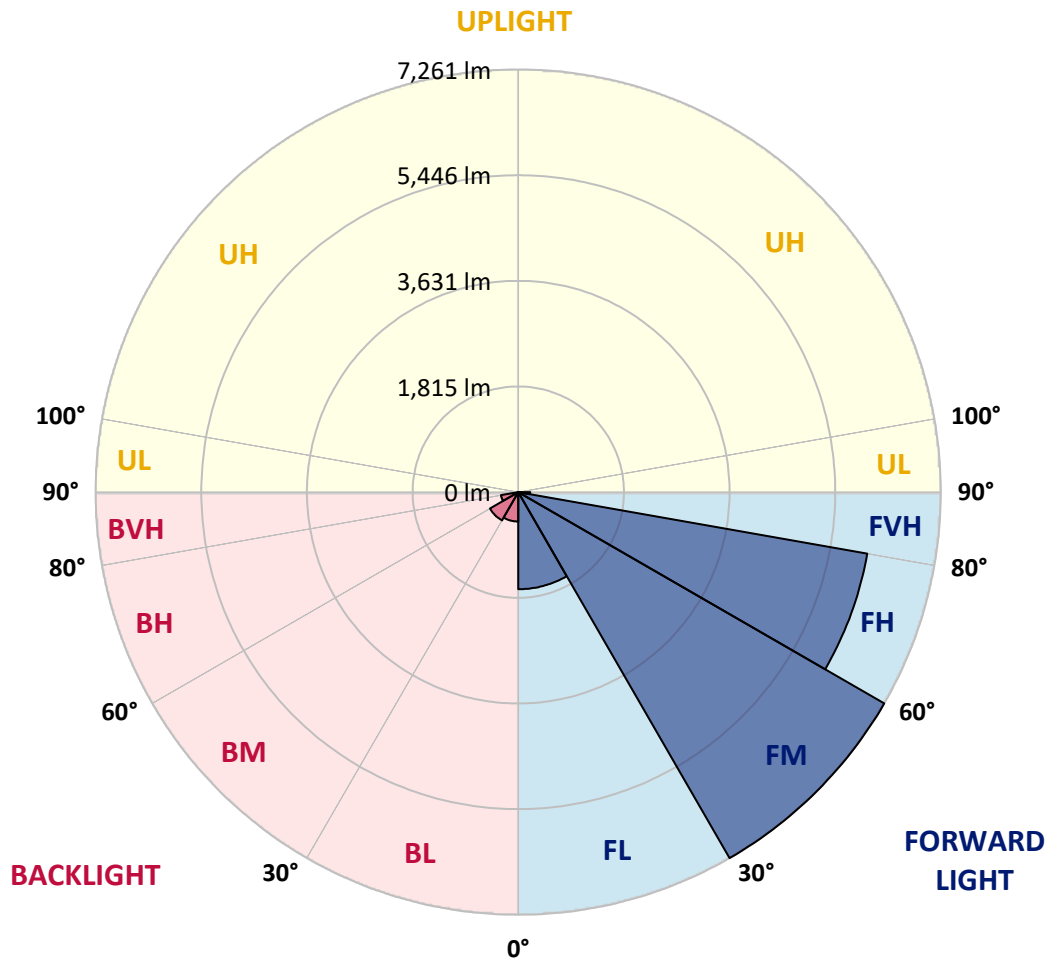
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.0	10.1			
FM (30°-60°)	7261.1	43.8			
FH (60°-80°)	6089.0	36.7			G3/7500
FVH (80°-90°)	202.7	1.2			G2/225
BL (0°-30°)	505.1	3.0	B2/1000		
BM (30°-60°)	561.4	3.4	B1/1000		
BH (60°-80°)	301.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.4	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8
2.5°	5115.0	5132.6	5148.0	5119.4	5143.6	5108.4	5018.0	4998.2	4982.8	4848.4	4771.3
5°	5112.8	5092.9	5108.4	5121.6	5088.5	5115.0	5092.9	5095.1	5035.7	4914.5	4698.6
7.5°	4771.3	4762.5	4771.3	4835.2	4907.9	4965.2	4998.2	5031.3	4991.6	4811.0	4601.7
10°	4310.9	4355.0	4379.2	4493.8	4606.1	4711.9	4815.4	4877.1	4866.1	4793.4	4496.0
12.5°	3989.3	3976.1	4064.2	4139.1	4251.5	4465.1	4645.8	4703.0	4769.1	4667.8	4357.2
15°	3691.9	3656.7	3709.6	3839.5	4031.2	4200.8	4454.1	4540.0	4623.7	4650.2	4282.3
17.5°	3407.8	3425.4	3480.5	3597.2	3777.9	4015.8	4253.7	4377.0	4577.5	4542.2	4170.0
20°	3271.2	3308.7	3328.5	3388.0	3513.5	3751.4	4106.1	4205.2	4418.9	4540.0	4059.8
22.5°	3277.8	3277.8	3231.6	3266.8	3381.3	3566.4	3905.6	4015.8	4355.0	4425.5	3960.7
25°	3348.3	3304.2	3306.4	3264.6	3313.1	3414.4	3725.0	3859.4	4225.0	4436.5	3907.8
27.5°	3401.2	3392.4	3379.1	3368.1	3306.4	3321.9	3606.0	3716.2	4174.4	4423.3	3826.3
30°	3592.8	3553.2	3539.9	3515.7	3434.2	3359.3	3511.3	3650.1	4134.7	4454.1	3780.1
32.5°	3753.6	3760.2	3771.2	3700.8	3630.3	3445.2	3537.7	3647.9	4106.1	4524.6	3826.3
35°	3956.3	3984.9	3989.3	3967.3	3892.4	3709.6	3647.9	3742.6	4154.5	4650.2	3830.7
37.5°	4264.7	4233.8	4317.5	4326.4	4273.5	4031.2	3903.4	3940.9	4297.7	4850.6	3998.1
40°	4465.1	4502.6	4659.0	4755.9	4665.6	4445.3	4273.5	4266.9	4504.8	5165.6	4205.2
42.5°	4687.6	4771.3	4943.2	5152.4	5141.4	4936.5	4762.5	4733.9	4872.7	5621.6	4533.4
45°	4991.6	5066.5	5306.6	5621.6	5793.4	5619.4	5357.3	5300.0	5319.8	6242.8	5092.9
47.5°	5496.1	5476.2	5822.1	6132.7	6414.6	6280.3	6167.9	6000.5	5985.1	6974.2	5866.1
50°	6066.6	6062.2	6370.6	6723.0	7049.1	7311.2	7124.0	6941.1	6945.5	7967.6	6775.9
52.5°	6608.5	6694.4	7027.0	7377.3	7936.8	8218.8	8399.4	8326.7	7976.4	8855.4	7749.6
55°	6894.9	6969.8	7300.2	7903.8	8787.1	9511.8	10000.8	9939.2	9262.9	9855.5	8710.0
57.5°	6623.9	6674.6	7121.8	7912.6	9381.9	10998.7	11467.9	11390.8	10593.4	10619.8	9870.9
60°	5489.5	5568.8	6234.0	7161.4	9150.6	12144.2	13487.9	13371.2	11805.0	11586.9	10617.6
62.5°	3802.1	3855.0	4401.3	5555.5	8053.5	12542.9	15395.6	15459.5	13082.6	12340.3	10840.1
65°	2462.8	2458.4	2771.2	3553.2	5707.5	11335.8	16523.4	16919.9	14316.2	12454.8	10771.8
67°	1740.2	1733.6	1881.2	2409.9	3951.9	9340.0	16503.6	17356.1	14985.9	12487.8	10139.6
67.5°	1605.9	1599.3	1740.2	2216.0	3566.4	8685.8	16256.9	17131.4	15221.6	12441.6	9862.1
70°	1246.8	1229.2	1282.0	1526.6	2077.3	5617.2	13913.1	15737.0	14732.5	11287.3	7875.1
72.5°	901.0	920.8	1004.5	1253.4	1630.1	3022.3	10604.4	12725.8	12305.0	8507.3	5004.8
75°	627.8	645.4	779.8	1022.1	1495.7	1832.8	7170.2	9229.9	8571.2	4696.4	2132.3
77.5°	328.2	350.3	497.8	817.3	1359.1	1418.6	4284.5	5852.9	4542.2	1671.9	588.2
80°	152.0	163.0	248.9	579.3	1136.7	1246.8	2498.0	3255.8	1817.3	374.5	202.7
82.5°	66.1	72.7	114.5	332.6	806.2	1090.4	1546.4	1707.2	658.6	121.2	125.6
85°	13.2	15.4	44.1	176.2	389.9	660.8	1086.0	1013.3	330.4	59.5	99.1
87.5°	0.0	0.0	11.0	50.7	105.7	196.1	460.4	460.4	101.3	30.8	37.4
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°	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8	4700.8
2.5°	4703.0	4623.7	4449.7	4288.9	4174.4	4044.4	3872.6	3795.5	3766.8	3727.2	3667.7
5°	4579.7	4482.8	4185.4	3885.8	3557.6	3308.7	3044.3	2890.1	2773.4	2700.7	2676.4
7.5°	4405.7	4207.4	3806.5	3326.3	2901.1	2531.1	2130.1	1859.2	1685.2	1614.7	1548.6
10°	4266.9	4009.2	3399.0	2802.0	2235.9	1694.0	1242.4	1004.5	823.9	755.6	746.8
12.5°	4086.3	3777.9	3017.9	2266.7	1555.2	1008.9	687.3	597.0	546.3	537.5	530.9
15°	3936.5	3568.6	2656.6	1755.7	1006.7	630.0	535.3	513.3	500.0	495.6	497.8
17.5°	3835.1	3343.9	2286.5	1277.6	663.1	515.5	493.4	480.2	473.6	471.4	464.8
20°	3634.7	3154.5	1920.9	894.3	517.7	475.8	458.2	447.2	440.6	438.4	436.2
22.5°	3520.1	2914.3	1555.2	623.4	460.4	431.8	418.5	409.7	398.7	392.1	389.9
25°	3405.6	2738.1	1229.2	484.6	418.5	398.7	378.9	367.9	350.3	341.4	339.2
27.5°	3271.2	2564.1	947.2	420.7	376.7	356.9	337.0	319.4	297.4	288.6	284.2
30°	3194.1	2394.5	713.7	376.7	345.8	319.4	295.2	273.2	248.9	233.5	229.1
32.5°	3154.5	2240.3	535.3	343.6	312.8	284.2	253.3	226.9	204.9	191.6	189.4
35°	3106.0	2090.5	420.7	312.8	282.0	251.1	220.3	193.8	171.8	160.8	156.4
37.5°	3156.7	2002.4	350.3	288.6	257.7	222.5	189.4	163.0	145.4	134.4	132.2
40°	3295.4	1929.7	304.0	266.5	233.5	196.1	165.2	138.8	123.4	114.5	110.1
42.5°	3509.1	1929.7	275.4	244.5	211.5	171.8	141.0	121.2	105.7	96.9	94.7
45°	3896.8	1989.2	251.1	222.5	185.0	147.6	121.2	101.3	85.9	77.1	74.9
47.5°	4440.9	2125.7	231.3	202.7	165.2	130.0	105.7	85.9	70.5	61.7	59.5
50°	5172.2	2436.3	211.5	178.4	147.6	112.3	88.1	68.3	55.1	46.3	44.1
52.5°	6084.2	2876.9	191.6	165.2	125.6	94.7	70.5	55.1	41.9	35.2	33.0
55°	7049.1	3416.6	167.4	147.6	107.9	79.3	57.3	41.9	30.8	26.4	24.2
57.5°	8020.5	3832.9	147.6	127.8	88.1	63.9	46.3	33.0	22.0	17.6	15.4
60°	8536.0	3872.6	127.8	105.7	70.5	50.7	35.2	24.2	15.4	11.0	8.8
62.5°	8615.3	3520.1	110.1	85.9	57.3	39.7	24.2	17.6	8.8	4.4	4.4
65°	8207.7	2934.2	94.7	68.3	44.1	28.6	17.6	11.0	4.4	2.2	0.0
67°	7546.9	2458.4	81.5	57.3	35.2	22.0	13.2	6.6	2.2	0.0	0.0
67.5°	7291.4	2326.2	77.1	52.9	33.0	19.8	11.0	6.6	2.2	0.0	0.0
70°	5659.1	1660.9	57.3	37.4	24.2	15.4	8.8	4.4	0.0	0.0	0.0
72.5°	3467.3	971.4	44.1	26.4	17.6	11.0	6.6	2.2	0.0	0.0	0.0
75°	1453.9	334.8	37.4	19.8	13.2	6.6	4.4	2.2	0.0	0.0	0.0
77.5°	378.9	125.6	26.4	13.2	8.8	6.6	4.4	2.2	0.0	0.0	0.0
80°	154.2	57.3	17.6	8.8	8.8	6.6	4.4	2.2	0.0	0.0	0.0
82.5°	101.3	26.4	11.0	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0
85°	77.1	15.4	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	33.0	8.8	6.6	4.4	4.4	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)