

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: P484146

Luminaire Tested: **IFLD-M-SA4D-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484146  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

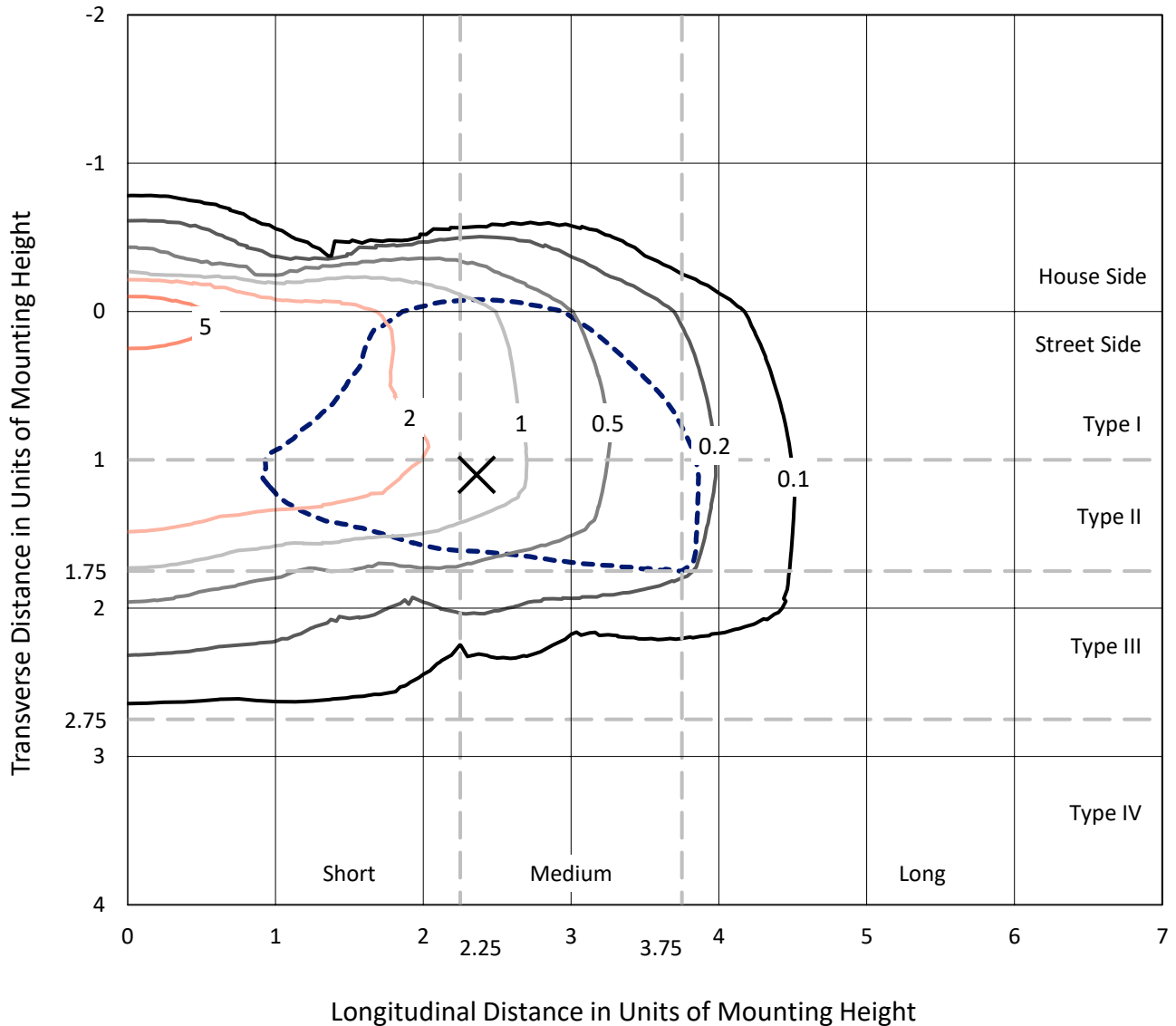
Lumens per Lamp: N/A  
Luminaire Lumens: 18927.6 lumens  
Efficiency: N/A  
Efficacy: 75.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7  
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

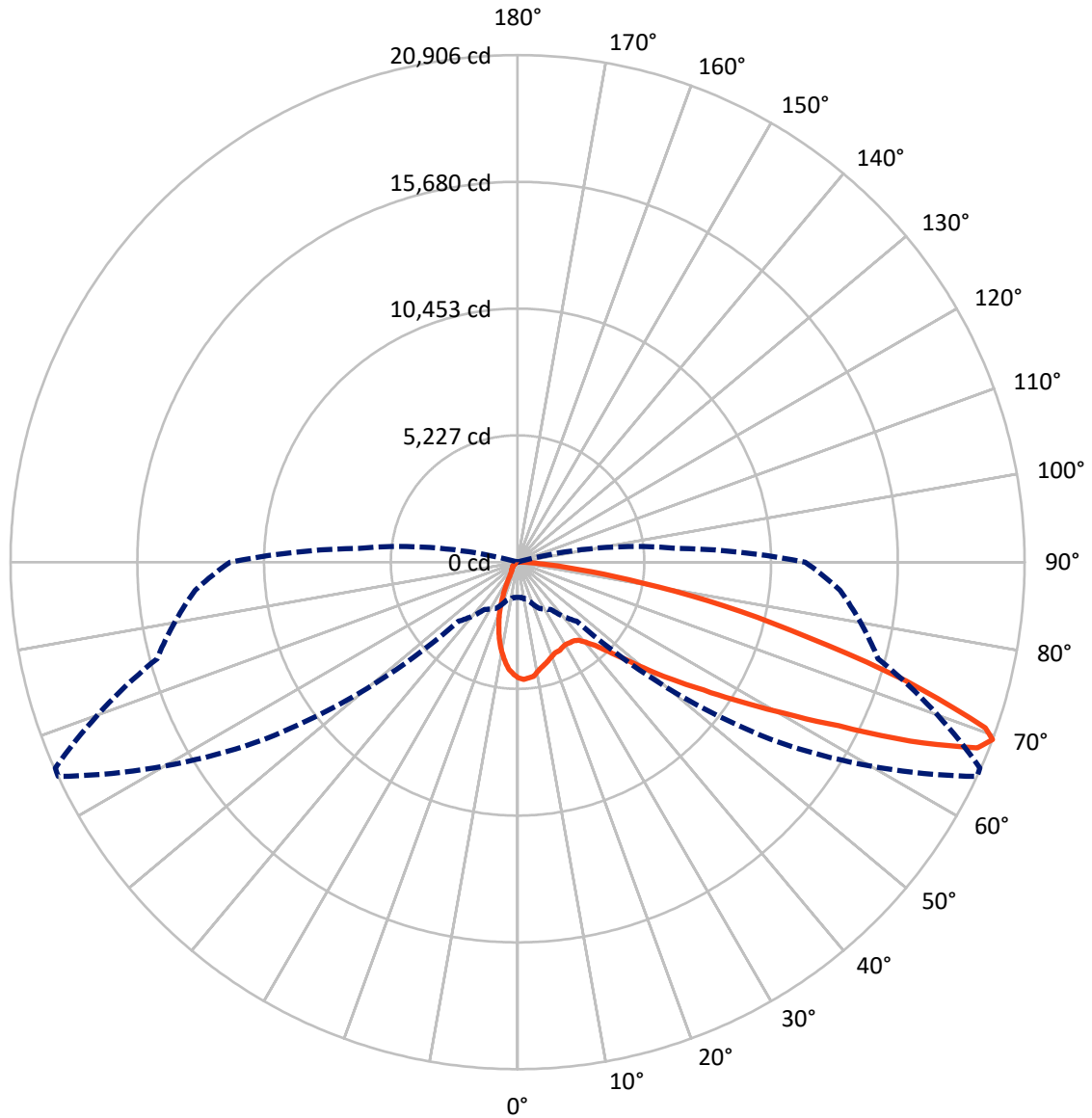
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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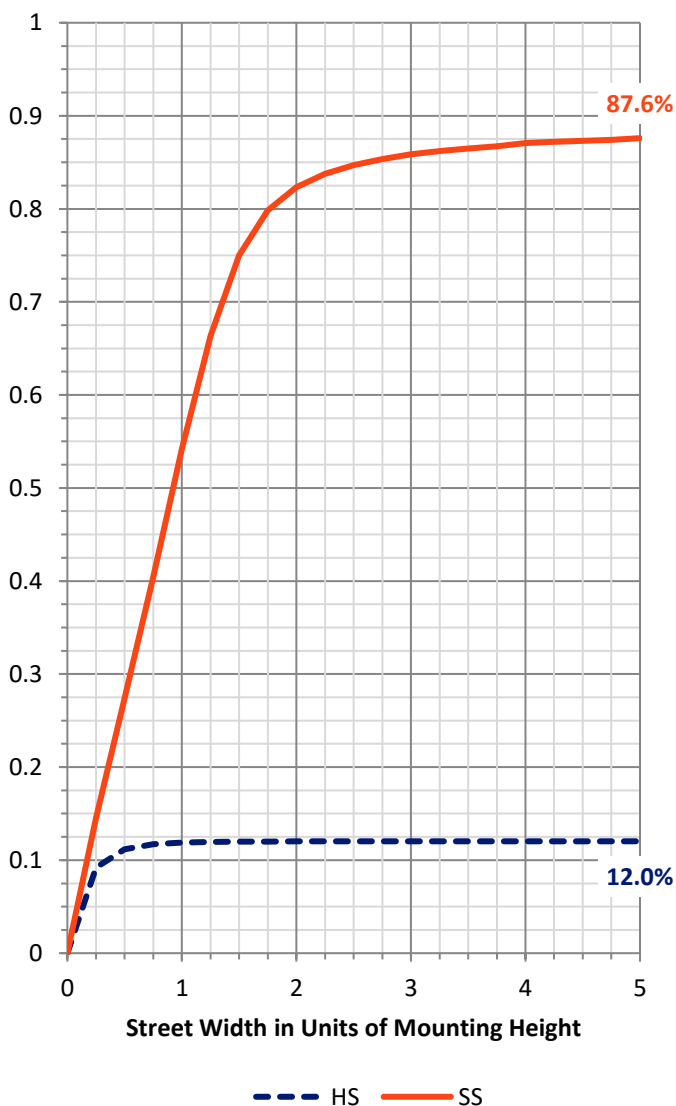
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2296.0	0.0	2296.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16631.6	0.0	16631.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	18927.6	0.0	18927.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.5	2.1
10°-20°	854.4	4.5
20°-30°	1189.6	6.3
30°-40°	1685.7	8.9
40°-50°	2656.6	14.0
50°-60°	4310.8	22.8
60°-70°	4814.3	25.4
70°-80°	2711.0	14.3
80°-90°	314.6	1.7
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°	18927.6	100.0
0°-180°	18927.6	100.0

**Coefficient of Utilization**



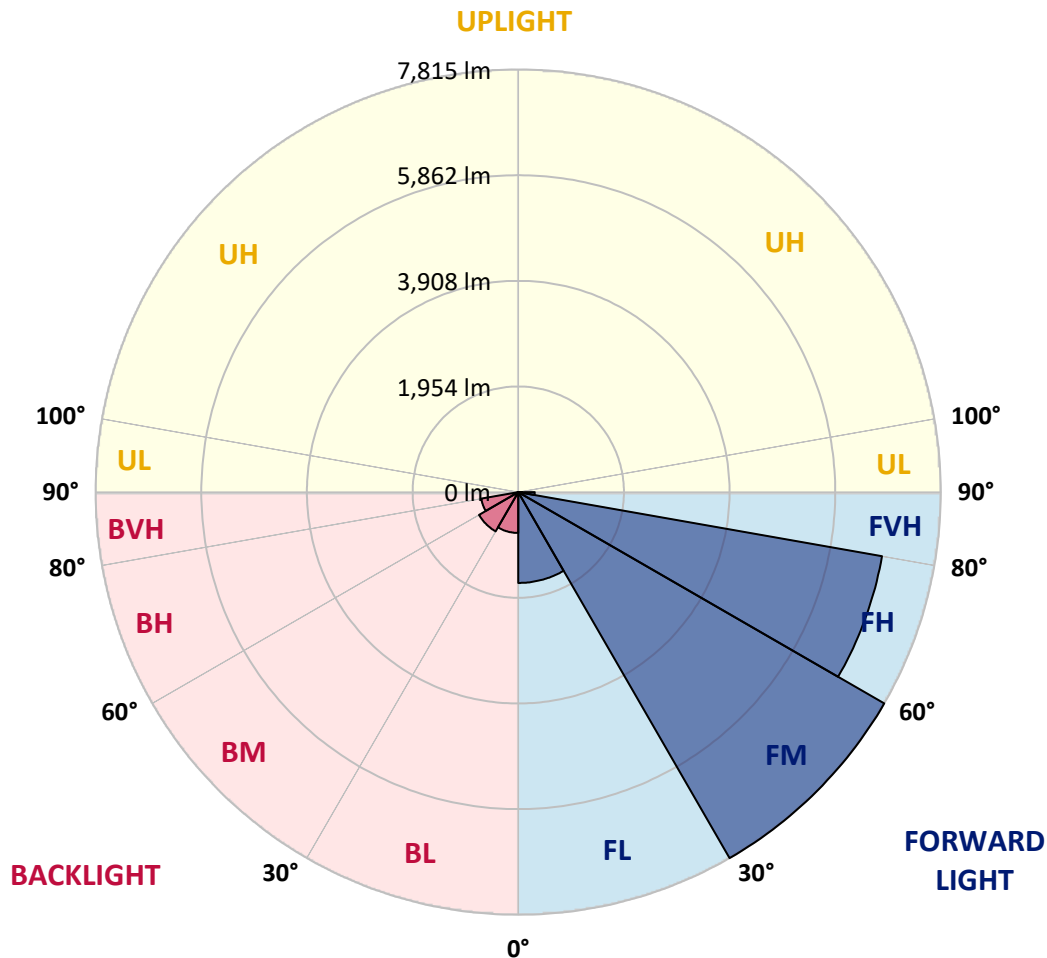
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.6	8.9			
FM (30°-60°)	7815.4	41.3			
FH (60°-80°)	6830.6	36.1			G3/7500
FVH (80°-90°)	305.9	1.6			G3/500
BL (0°-30°)	754.9	4.0	B2/1000		
BM (30°-60°)	837.8	4.4	B1/1000		
BH (60°-80°)	694.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1
2.5°	4595.9	4631.7	4641.9	4677.6	4695.5	4772.1	4815.5	4841.0	4828.3	4856.3	4858.9
5°	4269.1	4248.7	4302.3	4340.6	4422.3	4555.1	4690.4	4795.1	4843.6	4889.5	4881.9
7.5°	3919.3	3909.1	3962.7	4049.5	4123.5	4284.4	4501.4	4759.3	4749.1	4861.4	4894.6
10°	3679.3	3689.5	3707.4	3794.2	3904.0	4067.4	4338.0	4578.0	4631.7	4869.1	4935.5
12.5°	3459.7	3477.6	3510.8	3600.1	3727.8	3896.3	4159.3	4440.2	4521.9	4825.7	4958.5
15°	3388.2	3347.4	3413.7	3480.1	3612.9	3763.5	3985.7	4335.5	4371.2	4774.6	4996.8
17.5°	3329.5	3303.9	3334.6	3388.2	3528.6	3651.2	3860.6	4223.1	4289.5	4754.2	4991.7
20°	3347.4	3324.4	3337.1	3378.0	3441.8	3556.7	3750.8	4115.9	4187.4	4659.7	4984.0
22.5°	3398.4	3416.3	3393.3	3403.5	3424.0	3482.7	3692.0	4039.3	4100.6	4641.9	5027.4
25°	3628.2	3597.6	3566.9	3554.2	3434.2	3459.7	3674.2	4034.2	4077.6	4578.0	4991.7
27.5°	3868.2	3842.7	3829.9	3755.9	3592.5	3515.9	3676.7	3962.7	4021.4	4552.5	4948.3
30°	4159.3	4192.5	4141.4	4052.1	3824.8	3635.9	3704.8	3926.9	4008.7	4455.5	4920.2
32.5°	4465.7	4483.6	4509.1	4442.7	4149.1	3817.2	3789.1	3960.1	3965.2	4455.5	4856.3
35°	4812.9	4787.4	4853.8	4858.9	4601.0	4138.9	3949.9	3983.1	4036.7	4435.1	4833.4
37.5°	5111.7	5155.1	5231.7	5354.2	5088.7	4593.4	4200.1	4090.4	4113.3	4529.5	4851.2
40°	5438.5	5481.9	5655.5	5778.1	5627.4	5104.0	4580.6	4340.6	4358.5	4670.0	4943.2
42.5°	5798.5	5882.8	6089.6	6304.1	6263.2	5752.5	5070.8	4708.3	4700.6	5019.8	5132.1
45°	6286.2	6398.5	6623.2	6870.9	6906.6	6495.5	5724.5	5257.2	5282.7	5476.8	5522.7
47.5°	6965.4	6960.2	7179.8	7455.6	7662.4	7266.6	6505.8	5995.1	5992.6	6199.4	6102.3
50°	7621.5	7624.1	7682.8	8002.0	8538.2	8336.5	7473.5	6975.6	6947.5	7049.6	6893.9
52.5°	7925.4	7889.6	7846.2	8231.8	9212.2	9684.6	8699.0	8086.2	8063.3	8002.0	7961.1
55°	7606.2	7619.0	7616.4	8017.3	9567.1	11106.8	10271.9	9309.3	9271.0	9079.5	9135.6
57.5°	6582.4	6541.5	6630.9	7256.4	9161.2	12077.0	12521.3	10851.4	10751.9	10116.1	9988.4
60°	4899.7	4912.5	4986.6	5724.5	8152.6	12281.3	14673.7	12661.7	12232.8	10846.3	10670.2
62.5°	3421.4	3395.9	3424.0	3837.6	5829.1	11464.2	16129.1	14862.7	14449.0	11676.2	11574.0
65°	2448.6	2415.4	2527.7	2780.5	3500.5	8765.4	16335.9	17793.8	17423.6	13001.3	12756.2
67.5°	1761.8	1756.7	1886.9	2346.5	2486.9	5047.8	14803.9	20449.2	20224.5	14574.1	13476.2
69°	1457.9	1460.5	1585.6	2101.4	2374.6	3446.9	12738.3	20906.3	20865.4	15386.1	13340.9
70°	1271.5	1281.7	1427.3	1955.8	2328.6	2834.1	10981.7	20456.9	20416.0	15544.4	12894.1
72.5°	783.9	791.5	983.0	1567.7	2213.7	2313.3	6567.0	16736.8	16877.2	14819.2	11109.3
75°	375.3	377.9	515.8	1133.7	2134.5	2193.3	3518.4	12350.2	12646.4	11964.7	8681.2
77.5°	199.2	199.2	247.7	602.6	1728.6	2063.1	2088.6	8711.8	8956.9	7565.4	4935.5
80°	99.6	102.1	150.6	314.1	1072.4	2022.2	1631.5	5195.9	5328.7	3086.9	1537.1
82.5°	38.3	40.9	71.5	188.9	556.6	1708.1	1432.4	2555.8	2522.6	722.6	375.3
85°	5.1	5.1	25.5	112.3	237.5	753.2	1182.2	1067.3	1031.5	158.3	181.3
87.5°	0.0	0.0	5.1	33.2	71.5	219.6	457.0	293.6	326.8	43.4	89.4
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°	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1	4772.1
2.5°	4846.1	4792.5	4710.8	4631.7	4547.4	4445.3	4332.9	4292.1	4220.6	4215.5	4256.3
5°	4841.0	4754.2	4611.2	4442.7	4202.7	4021.4	3824.8	3681.8	3572.0	3500.5	3518.4
7.5°	4866.6	4761.9	4514.2	4151.6	3842.7	3482.7	3178.8	2969.5	2778.0	2683.5	2673.3
10°	4825.7	4685.3	4322.7	3814.6	3360.1	2857.1	2412.9	2132.0	1846.0	1741.3	1746.4
12.5°	4848.7	4652.1	4115.9	3467.4	2841.8	2188.2	1657.1	1274.1	1006.0	919.2	909.0
15°	4864.0	4580.6	3916.7	3051.2	2267.3	1491.1	960.0	722.6	638.3	623.0	620.4
17.5°	4805.3	4493.8	3635.9	2640.1	1680.1	906.4	638.3	589.8	574.5	564.3	559.2
20°	4802.7	4442.7	3393.3	2218.8	1120.9	617.9	551.5	533.6	510.7	503.0	503.0
22.5°	4759.3	4335.5	3102.2	1756.7	714.9	531.1	495.3	467.3	441.7	431.5	429.0
25°	4746.6	4210.4	2829.0	1320.0	543.8	474.9	439.2	398.3	367.7	352.4	344.7
27.5°	4710.8	4103.1	2553.3	929.4	474.9	423.8	377.9	334.5	298.7	275.8	273.2
30°	4583.1	3990.8	2246.9	643.4	431.5	375.3	324.3	273.2	237.5	222.1	217.0
32.5°	4529.5	3886.1	1912.4	495.3	393.2	331.9	273.2	227.2	199.2	183.8	181.3
35°	4465.7	3732.9	1588.1	431.5	357.5	288.5	229.8	191.5	168.5	155.8	155.8
37.5°	4473.3	3610.3	1284.3	390.7	319.2	247.7	196.6	163.4	143.0	130.2	130.2
40°	4450.4	3513.3	998.3	354.9	283.4	211.9	166.0	137.9	120.0	107.2	104.7
42.5°	4555.1	3487.8	753.2	324.3	247.7	181.3	143.0	117.5	99.6	84.3	84.3
45°	4731.2	3528.6	587.3	296.2	211.9	155.8	122.6	97.0	79.2	68.9	66.4
47.5°	5201.0	3689.5	459.6	273.2	181.3	135.3	102.1	79.2	63.8	53.6	51.1
50°	5882.8	4049.5	390.7	240.0	153.2	114.9	84.3	61.3	51.1	40.9	38.3
52.5°	6853.0	4654.6	354.9	211.9	127.7	94.5	66.4	48.5	38.3	30.6	28.1
55°	7910.1	5410.4	321.7	178.7	107.2	76.6	53.6	38.3	28.1	20.4	17.9
57.5°	8734.8	6064.0	293.6	148.1	86.8	61.3	40.9	28.1	20.4	12.8	10.2
60°	9636.1	6523.6	257.9	117.5	71.5	46.0	30.6	20.4	15.3	7.7	7.7
62.5°	10565.5	7062.4	211.9	91.9	56.2	35.7	23.0	15.3	10.2	2.6	2.6
65°	11857.4	7483.7	163.4	71.5	43.4	25.5	17.9	12.8	5.1	0.0	0.0
67.5°	12222.6	7276.9	120.0	56.2	30.6	17.9	12.8	7.7	2.6	0.0	0.0
69°	11857.4	6554.3	104.7	48.5	25.5	15.3	10.2	5.1	2.6	0.0	0.0
70°	11191.0	5992.6	91.9	40.9	23.0	15.3	7.7	5.1	2.6	0.0	0.0
72.5°	9360.3	4595.9	71.5	30.6	17.9	12.8	7.7	5.1	0.0	0.0	0.0
75°	6865.8	2839.2	53.6	23.0	15.3	10.2	7.7	5.1	0.0	0.0	0.0
77.5°	3679.3	1036.6	38.3	15.3	10.2	7.7	7.7	5.1	0.0	0.0	0.0
80°	1008.5	306.4	28.1	10.2	7.7	5.1	5.1	2.6	0.0	0.0	0.0
82.5°	275.8	79.2	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	148.1	30.6	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	76.6	10.2	7.7	5.1	5.1	2.6	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)