

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: P483970

Luminaire Tested: **IFLD-S-SA3D-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483970  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

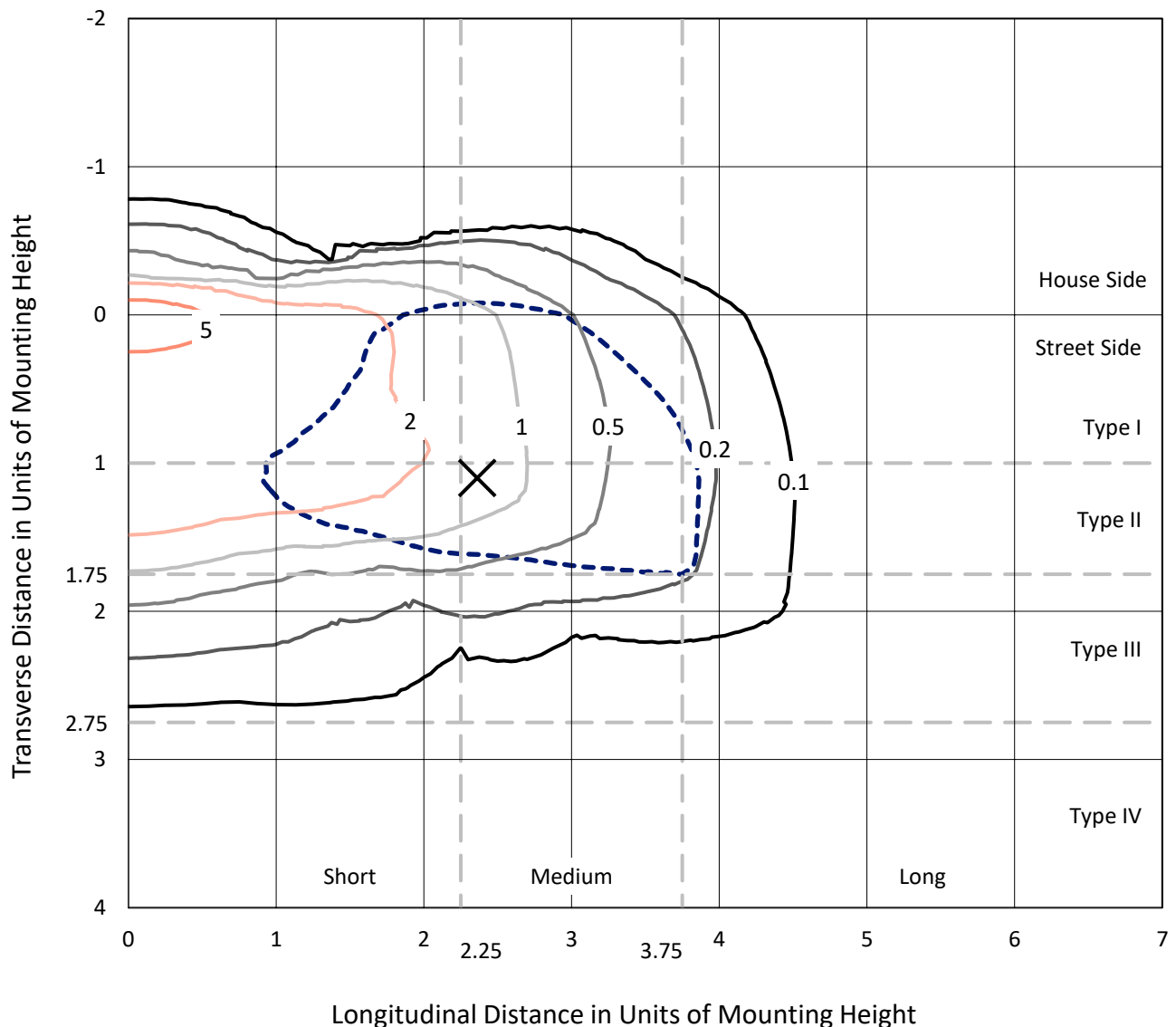
Lumens per Lamp: N/A  
Luminaire Lumens: 18920.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

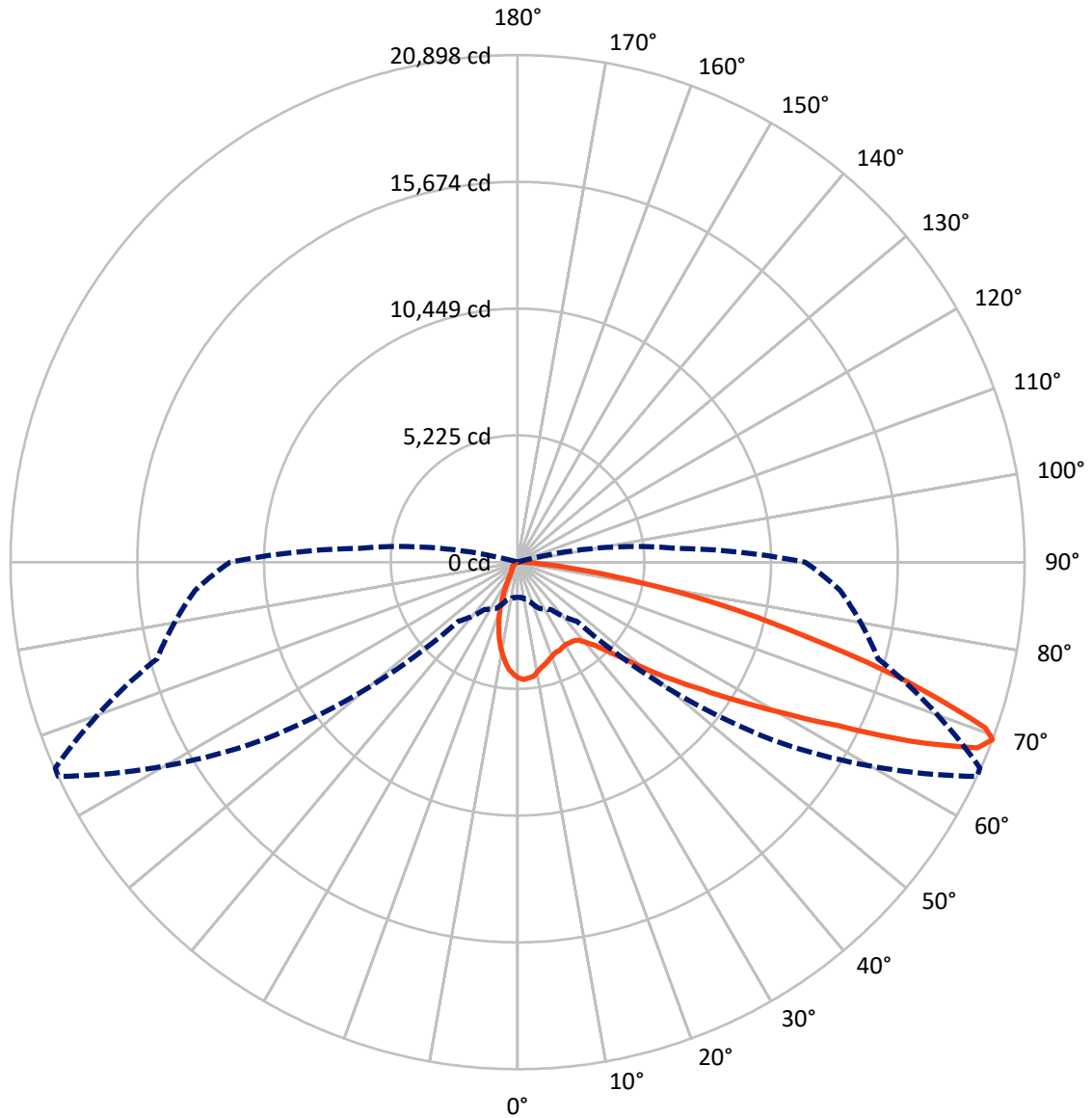
× Max cd  
 - - - 1/2 Max cd



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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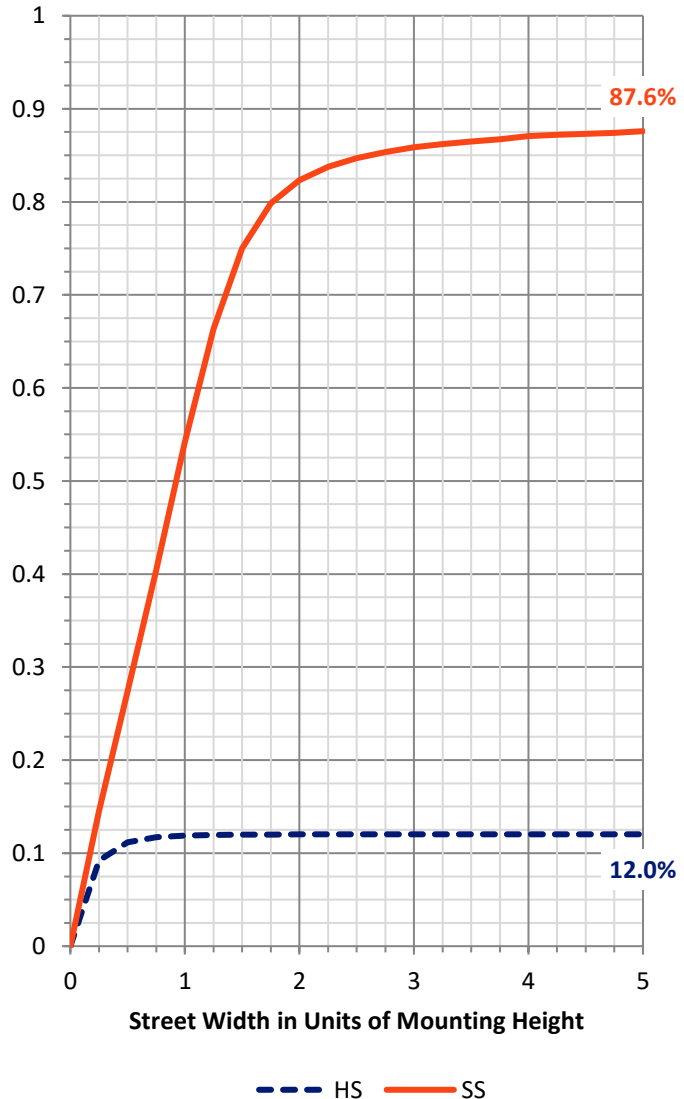
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2295.1	0.0	2295.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16625.0	0.0	16625.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	18920.1	0.0	18920.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.4	2.1
10°-20°	854.1	4.5
20°-30°	1189.1	6.3
30°-40°	1685.1	8.9
40°-50°	2655.6	14.0
50°-60°	4309.1	22.8
60°-70°	4812.4	25.4
70°-80°	2709.9	14.3
80°-90°	314.5	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°	18920.1	100.0
0°-180°	18920.1	100.0

**Coefficient of Utilization**



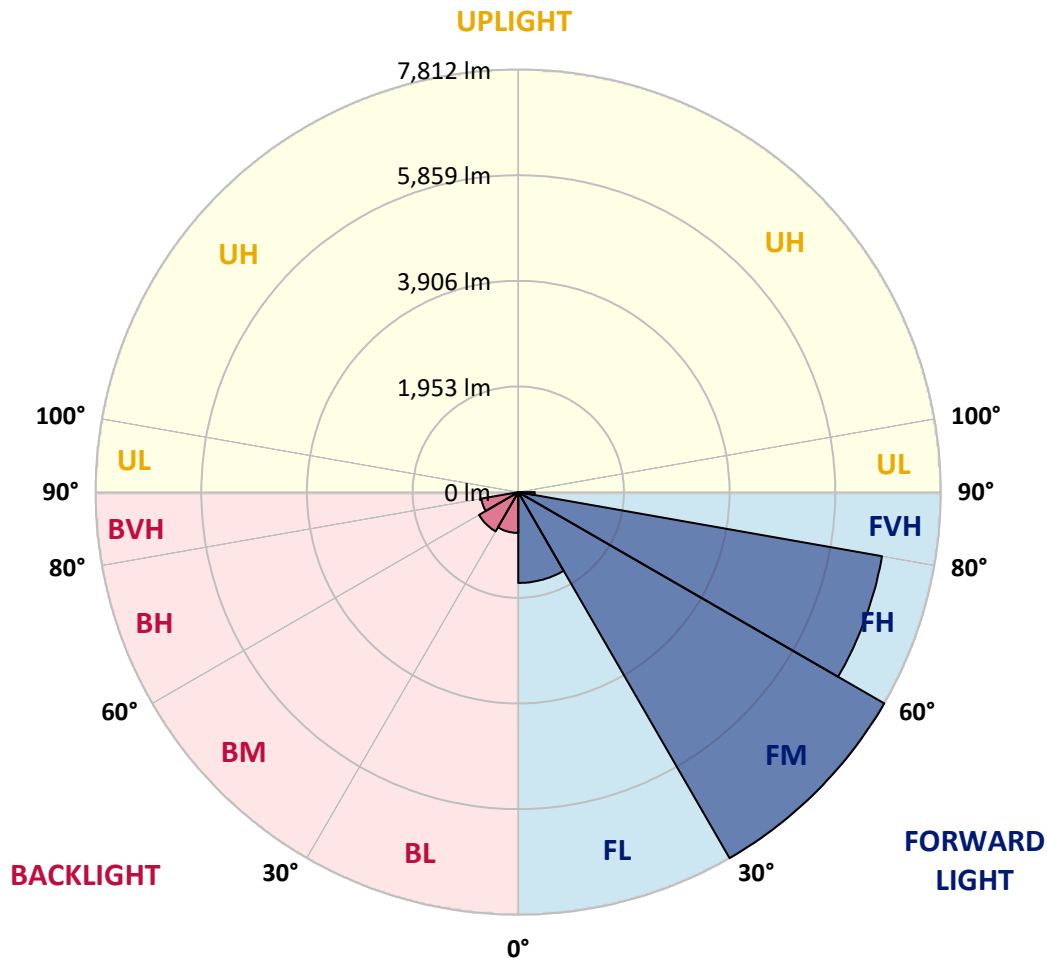
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.0	8.9			
FM (30°-60°)	7812.3	41.3			
FH (60°-80°)	6827.9	36.1			G3/7500
FVH (80°-90°)	305.8	1.6			G3/500
BL (0°-30°)	754.6	4.0	B2/1000		
BM (30°-60°)	837.5	4.4	B1/1000		
BH (60°-80°)	694.4	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°	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2
2.5°	4594.1	4629.8	4640.0	4675.8	4693.6	4770.2	4813.6	4839.1	4826.3	4854.4	4857.0
5°	4267.4	4247.0	4300.6	4338.9	4420.5	4553.2	4688.5	4793.2	4841.7	4887.6	4879.9
7.5°	3917.7	3907.5	3961.1	4047.9	4121.9	4282.7	4499.7	4757.4	4747.2	4859.5	4892.7
10°	3677.8	3688.0	3705.9	3792.7	3902.4	4065.8	4336.3	4576.2	4629.8	4867.2	4933.5
12.5°	3458.3	3476.2	3509.4	3598.7	3726.3	3894.8	4157.6	4438.4	4520.1	4823.8	4956.5
15°	3386.9	3346.0	3412.4	3478.7	3611.5	3762.0	3984.1	4333.8	4369.5	4772.7	4994.8
17.5°	3328.2	3302.6	3333.3	3386.9	3527.2	3649.7	3859.0	4221.5	4287.8	4752.3	4989.7
20°	3346.0	3323.1	3335.8	3376.7	3440.5	3555.3	3749.3	4114.3	4185.7	4657.9	4982.0
22.5°	3397.1	3414.9	3392.0	3402.2	3422.6	3481.3	3690.6	4037.7	4098.9	4640.0	5025.4
25°	3626.8	3596.1	3565.5	3552.8	3432.8	3458.3	3672.7	4032.6	4076.0	4576.2	4989.7
27.5°	3866.7	3841.2	3828.4	3754.4	3591.0	3514.5	3675.3	3961.1	4019.8	4550.7	4946.3
30°	4157.6	4190.8	4139.8	4050.5	3823.3	3634.4	3703.3	3925.4	4007.1	4453.7	4918.2
32.5°	4463.9	4481.8	4507.3	4440.9	4147.4	3815.6	3787.6	3958.6	3963.7	4453.7	4854.4
35°	4811.0	4785.5	4851.9	4857.0	4599.2	4137.2	3948.4	3981.5	4035.1	4433.3	4831.4
37.5°	5109.6	5153.0	5229.6	5352.1	5086.7	4591.5	4198.5	4088.7	4111.7	4527.7	4849.3
40°	5436.3	5479.7	5653.3	5775.8	5625.2	5102.0	4578.8	4338.9	4356.7	4668.1	4941.2
42.5°	5796.2	5880.4	6087.2	6301.6	6260.7	5750.3	5068.8	4706.4	4698.7	5017.8	5130.1
45°	6283.7	6396.0	6620.6	6868.2	6903.9	6493.0	5722.2	5255.1	5280.6	5474.6	5520.6
47.5°	6962.6	6957.5	7177.0	7452.6	7659.4	7263.8	6503.2	5992.7	5990.2	6196.9	6099.9
50°	7618.5	7621.1	7679.8	7998.8	8534.8	8333.2	7470.5	6972.8	6944.7	7046.8	6891.1
52.5°	7922.2	7886.5	7843.1	8228.5	9208.6	9680.8	8695.6	8083.0	8060.1	7998.8	7958.0
55°	7603.2	7616.0	7613.4	8014.1	9563.4	11102.4	10267.8	9305.6	9267.3	9075.9	9132.0
57.5°	6579.8	6538.9	6628.2	7253.6	9157.5	12072.2	12516.3	10847.1	10747.6	10112.1	9984.5
60°	4897.8	4910.6	4984.6	5722.2	8149.4	12276.4	14667.9	12656.7	12227.9	10842.0	10665.9
62.5°	3420.0	3394.5	3422.6	3836.1	5826.8	11459.7	16122.7	14856.8	14443.3	11671.5	11569.4
65°	2447.6	2414.4	2526.7	2779.4	3499.2	8761.9	16329.4	17786.8	17416.7	12996.2	12751.1
67.5°	1761.1	1756.0	1886.1	2345.5	2485.9	5045.8	14798.1	20441.1	20216.5	14568.4	13470.9
69°	1457.3	1459.9	1585.0	2100.5	2373.6	3445.6	12733.3	20898.0	20857.2	15380.0	13335.6
70°	1271.0	1281.2	1426.7	1955.0	2327.7	2833.0	10977.3	20448.8	20408.0	15538.2	12889.0
72.5°	783.5	791.2	982.6	1567.1	2212.8	2312.4	6564.4	16730.1	16870.5	14813.4	11104.9
75°	375.2	377.7	515.6	1133.2	2133.7	2192.4	3517.0	12345.3	12641.4	11959.9	8677.7
77.5°	199.1	199.1	247.6	602.3	1727.9	2062.2	2087.8	8708.3	8953.4	7562.4	4933.5
80°	99.5	102.1	150.6	313.9	1072.0	2021.4	1630.9	5193.9	5326.6	3085.7	1536.5
82.5°	38.3	40.8	71.5	188.9	556.4	1707.5	1431.8	2554.8	2521.6	722.3	375.2
85°	5.1	5.1	25.5	112.3	237.4	752.9	1181.7	1066.8	1031.1	158.2	181.2
87.5°	0.0	0.0	5.1	33.2	71.5	219.5	456.9	293.5	326.7	43.4	89.3
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°	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2	4770.2
2.5°	4844.2	4790.6	4708.9	4629.8	4545.6	4443.5	4331.2	4290.4	4218.9	4213.8	4254.6
5°	4839.1	4752.3	4609.4	4440.9	4201.0	4019.8	3823.3	3680.4	3570.6	3499.2	3517.0
7.5°	4864.6	4760.0	4512.4	4150.0	3841.2	3481.3	3177.6	2968.3	2776.9	2682.4	2672.2
10°	4823.8	4683.4	4321.0	3813.1	3358.8	2856.0	2411.9	2131.1	1845.3	1740.6	1745.8
12.5°	4846.8	4650.2	4114.3	3466.0	2840.7	2187.3	1656.4	1273.6	1005.6	918.8	908.6
15°	4862.1	4578.8	3915.2	3050.0	2266.4	1490.5	959.7	722.3	638.1	622.8	620.2
17.5°	4803.4	4492.0	3634.4	2639.0	1679.4	906.1	638.1	589.6	574.3	564.1	558.9
20°	4800.8	4440.9	3392.0	2217.9	1120.4	617.6	551.3	533.4	510.5	502.8	502.8
22.5°	4757.4	4333.8	3101.0	1756.0	714.6	530.9	495.1	467.1	441.5	431.3	428.8
25°	4744.7	4208.7	2827.9	1319.5	543.6	474.7	439.0	398.2	367.5	352.2	344.6
27.5°	4708.9	4101.5	2552.3	929.0	474.7	423.7	377.7	334.3	298.6	275.6	273.1
30°	4581.3	3989.2	2246.0	643.2	431.3	375.2	324.1	273.1	237.4	222.0	216.9
32.5°	4527.7	3884.6	1911.7	495.1	393.0	331.8	273.1	227.2	199.1	183.8	181.2
35°	4463.9	3731.4	1587.5	431.3	357.3	288.4	229.7	191.4	168.4	155.7	155.7
37.5°	4471.6	3608.9	1283.8	390.5	319.0	247.6	196.5	163.3	142.9	130.2	130.2
40°	4448.6	3511.9	997.9	354.8	283.3	211.8	165.9	137.8	120.0	107.2	104.6
42.5°	4553.2	3486.4	752.9	324.1	247.6	181.2	142.9	117.4	99.5	84.2	84.2
45°	4729.4	3527.2	587.0	296.1	211.8	155.7	122.5	97.0	79.1	68.9	66.4
47.5°	5199.0	3688.0	459.4	273.1	181.2	135.3	102.1	79.1	63.8	53.6	51.0
50°	5880.4	4047.9	390.5	239.9	153.1	114.9	84.2	61.3	51.0	40.8	38.3
52.5°	6850.3	4652.8	354.8	211.8	127.6	94.4	66.4	48.5	38.3	30.6	28.1
55°	7906.9	5408.3	321.6	178.7	107.2	76.6	53.6	38.3	28.1	20.4	17.9
57.5°	8731.3	6061.6	293.5	148.0	86.8	61.3	40.8	28.1	20.4	12.8	10.2
60°	9632.3	6521.0	257.8	117.4	71.5	45.9	30.6	20.4	15.3	7.7	7.7
62.5°	10561.3	7059.6	211.8	91.9	56.1	35.7	23.0	15.3	10.2	2.6	2.6
65°	11852.7	7480.7	163.3	71.5	43.4	25.5	17.9	12.8	5.1	0.0	0.0
67.5°	12217.7	7274.0	120.0	56.1	30.6	17.9	12.8	7.7	2.6	0.0	0.0
69°	11852.7	6551.7	104.6	48.5	25.5	15.3	10.2	5.1	2.6	0.0	0.0
70°	11186.6	5990.2	91.9	40.8	23.0	15.3	7.7	5.1	2.6	0.0	0.0
72.5°	9356.6	4594.1	71.5	30.6	17.9	12.8	7.7	5.1	0.0	0.0	0.0
75°	6863.1	2838.1	53.6	23.0	15.3	10.2	7.7	5.1	0.0	0.0	0.0
77.5°	3677.8	1036.2	38.3	15.3	10.2	7.7	7.7	5.1	0.0	0.0	0.0
80°	1008.1	306.3	28.1	10.2	7.7	5.1	5.1	2.6	0.0	0.0	0.0
82.5°	275.6	79.1	17.9	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	148.0	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)