

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: P484105

Luminaire Tested: **IFLD-M-SA4B-760-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484105  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-760-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

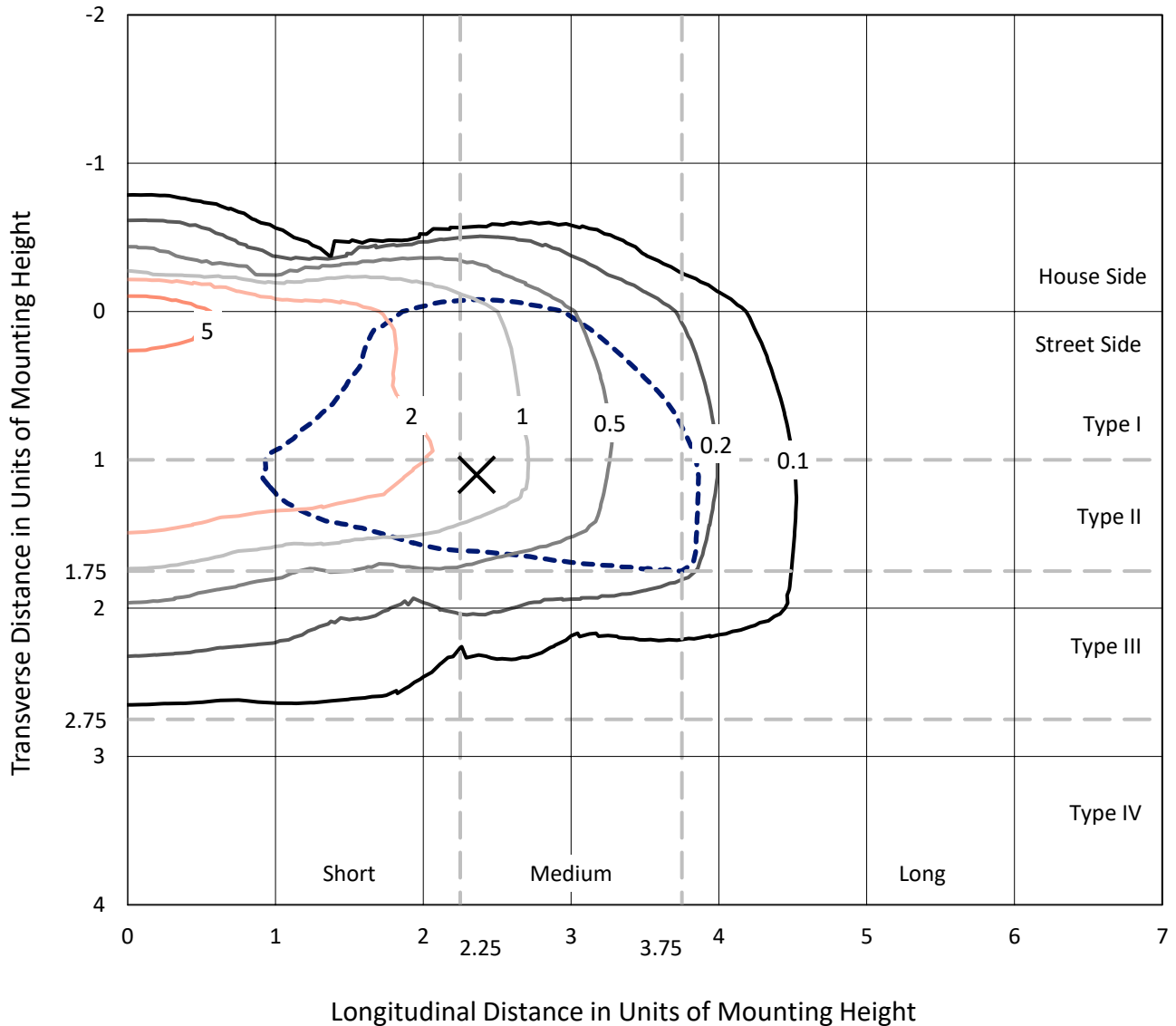
Lumens per Lamp: N/A  
Luminaire Lumens: 19228.5 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

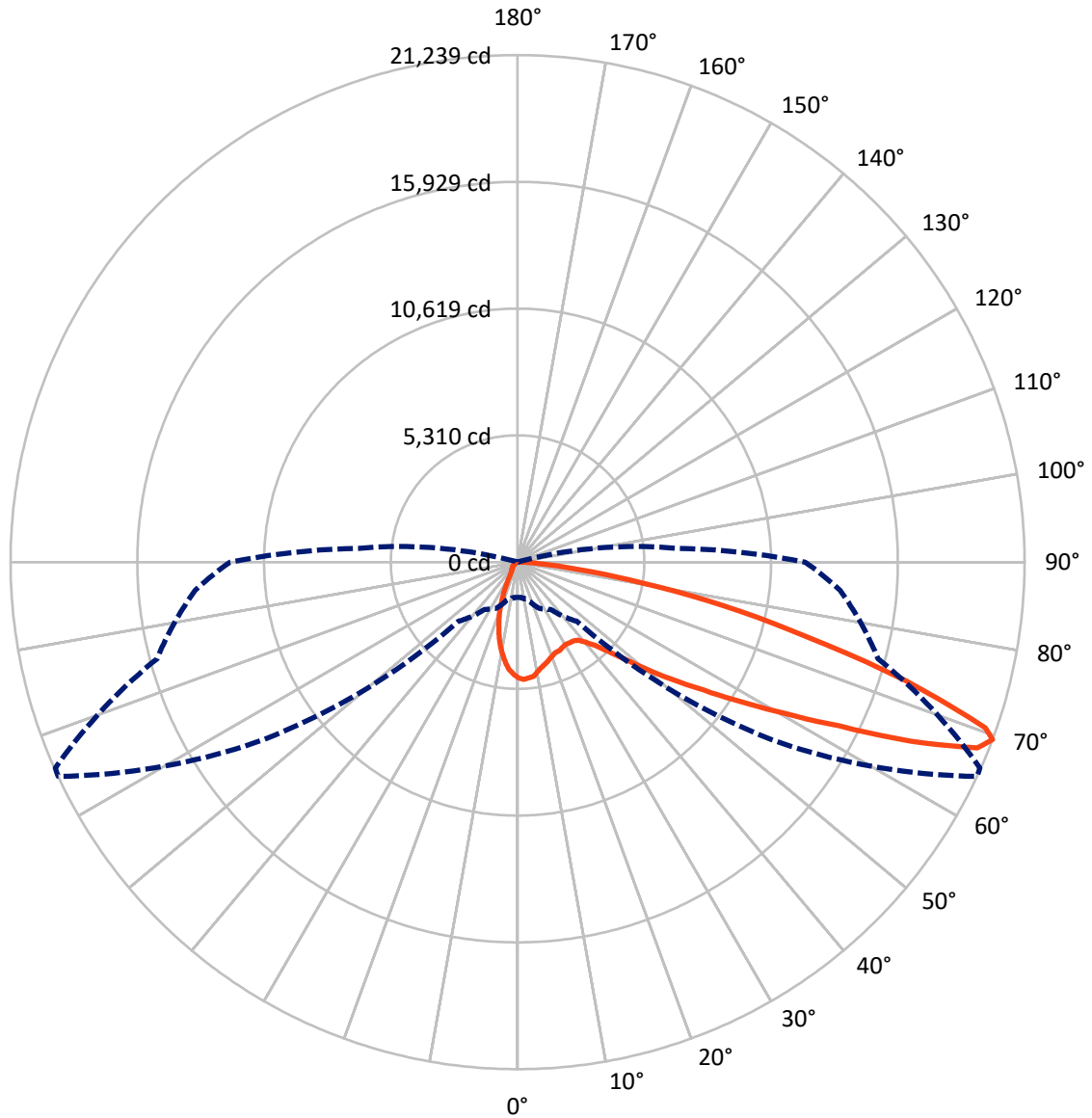
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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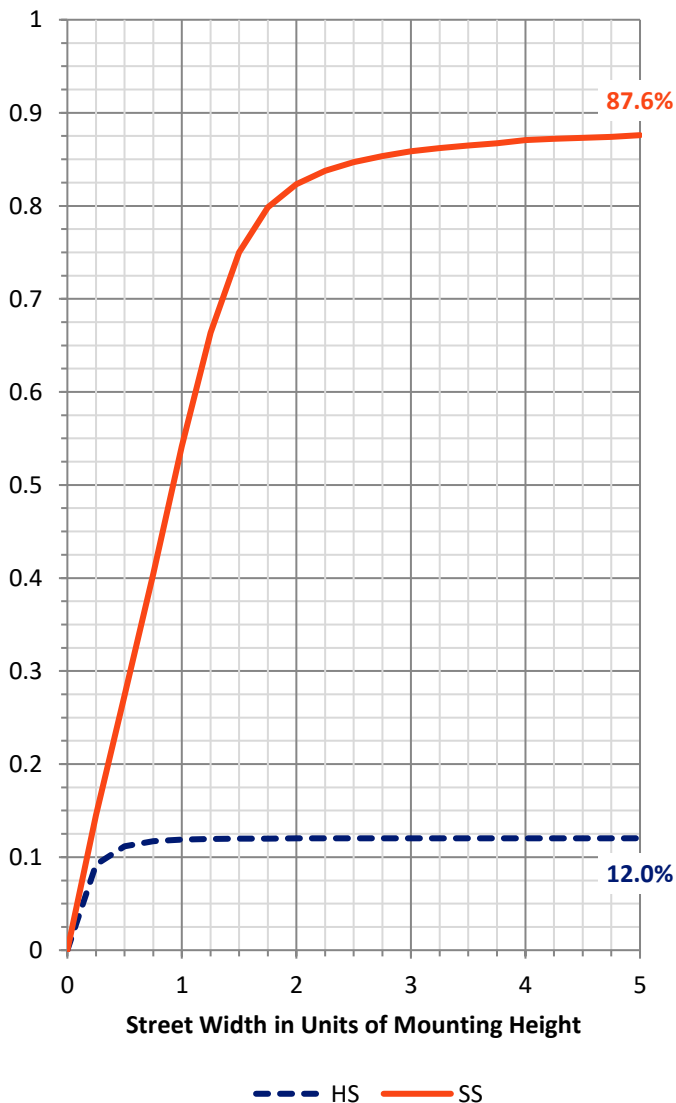
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2332.6	0.0	2332.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	16896.0	0.0	16896.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	19228.5	0.0	19228.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.7	2.1
10°-20°	868.0	4.5
20°-30°	1208.5	6.3
30°-40°	1712.5	8.9
40°-50°	2698.9	14.0
50°-60°	4379.4	22.8
60°-70°	4890.9	25.4
70°-80°	2754.1	14.3
80°-90°	319.6	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°	19228.5	100.0
0°-180°	19228.5	100.0



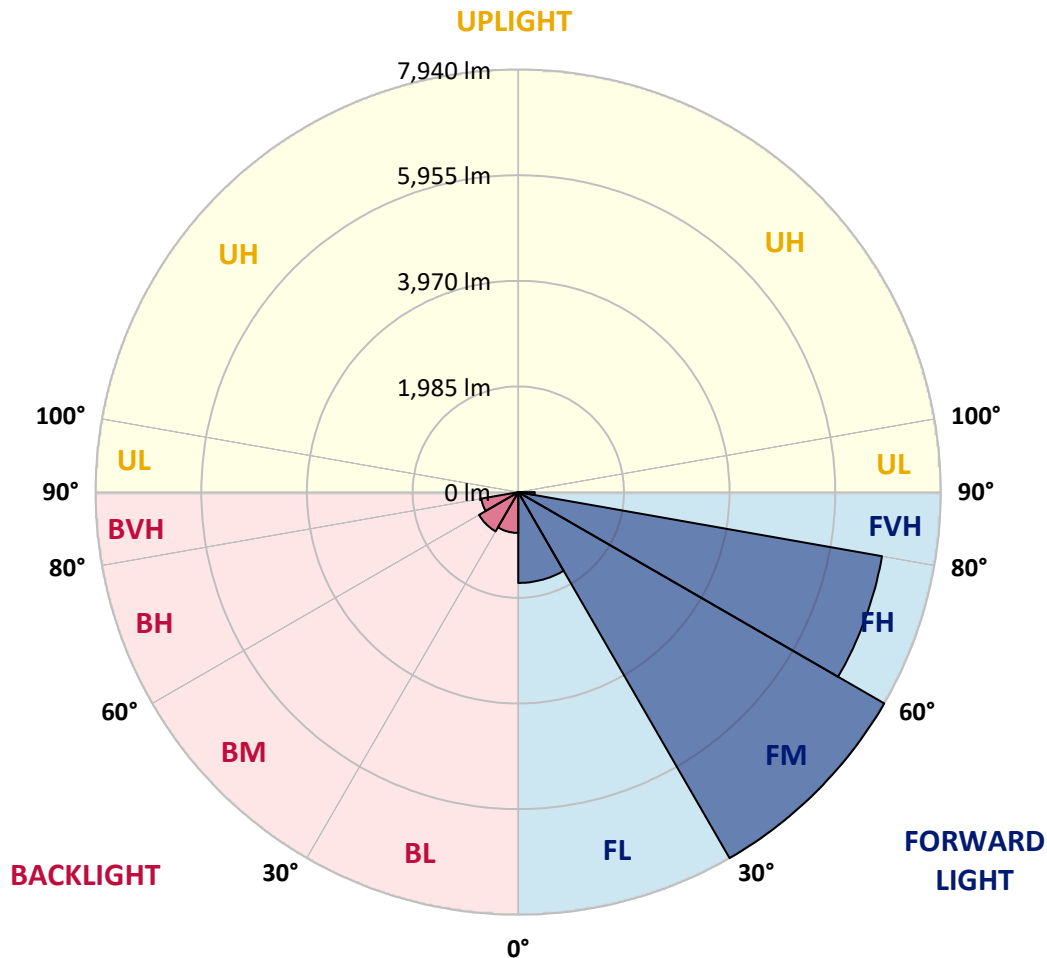
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.3	8.9			
FM (30°-60°)	7939.6	41.3			
FH (60°-80°)	6939.2	36.1			G3/7500
FVH (80°-90°)	310.8	1.6			G3/500
BL (0°-30°)	766.9	4.0	B2/1000		
BM (30°-60°)	851.1	4.4	B1/1000		
BH (60°-80°)	705.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0
2.5°	4669.0	4705.3	4715.7	4752.0	4770.1	4848.0	4892.1	4918.0	4905.0	4933.6	4936.2
5°	4337.0	4316.2	4370.7	4409.6	4492.6	4627.5	4765.0	4871.3	4920.6	4967.3	4959.5
7.5°	3981.6	3971.2	4025.7	4113.9	4189.1	4352.5	4573.0	4835.0	4824.6	4938.7	4972.5
10°	3737.8	3748.2	3766.3	3854.5	3966.0	4132.0	4407.0	4650.8	4705.3	4946.5	5014.0
12.5°	3514.7	3532.9	3566.6	3657.4	3787.1	3958.3	4225.4	4510.8	4593.8	4902.4	5037.3
15°	3442.1	3400.6	3468.0	3535.5	3670.3	3823.4	4049.0	4404.4	4440.7	4850.6	5076.2
17.5°	3382.4	3356.5	3387.6	3442.1	3584.7	3709.2	3921.9	4290.3	4357.7	4829.8	5071.0
20°	3400.6	3377.2	3390.2	3431.7	3496.5	3613.3	3810.4	4181.3	4254.0	4733.8	5063.3
22.5°	3452.5	3470.6	3447.3	3457.6	3478.4	3538.1	3750.7	4103.5	4165.8	4715.7	5107.3
25°	3685.9	3654.8	3623.6	3610.7	3488.8	3514.7	3732.6	4098.3	4142.4	4650.8	5071.0
27.5°	3929.7	3903.8	3890.8	3815.6	3649.6	3571.8	3735.2	4025.7	4085.4	4624.9	5026.9
30°	4225.4	4259.1	4207.3	4116.5	3885.6	3693.7	3763.7	3989.4	4072.4	4526.3	4998.4
32.5°	4536.7	4554.9	4580.8	4513.3	4215.1	3877.8	3849.3	4023.1	4028.3	4526.3	4933.6
35°	4889.5	4863.5	4931.0	4936.2	4674.2	4204.7	4012.7	4046.5	4100.9	4505.6	4910.2
37.5°	5192.9	5237.0	5314.9	5439.4	5169.6	4666.4	4266.9	4155.4	4178.7	4601.5	4928.4
40°	5525.0	5569.1	5745.4	5869.9	5716.9	5185.2	4653.4	4409.6	4427.8	4744.2	5021.8
42.5°	5890.7	5976.3	6186.4	6404.3	6362.8	5844.0	5151.4	4783.1	4775.3	5099.6	5213.7
45°	6386.1	6500.3	6728.5	6980.1	7016.4	6598.8	5815.5	5340.8	5366.7	5563.9	5610.6
47.5°	7076.1	7070.9	7294.0	7574.1	7784.2	7382.2	6609.2	6090.4	6087.8	6297.9	6199.4
50°	7742.7	7745.3	7805.0	8129.2	8673.9	8469.0	7592.3	7086.5	7057.9	7161.7	7003.5
52.5°	8051.4	8015.1	7971.0	8362.7	9358.7	9838.6	8837.3	8214.8	8191.5	8129.2	8087.7
55°	7727.2	7740.1	7737.5	8144.8	9719.3	11283.4	10435.2	9457.3	9418.4	9223.8	9280.9
57.5°	6687.0	6645.5	6736.3	7371.8	9306.8	12269.0	12720.4	11024.0	10922.8	10276.9	10147.3
60°	4977.7	4990.6	5065.8	5815.5	8282.3	12476.6	14907.0	12863.0	12427.3	11018.8	10839.8
62.5°	3475.8	3449.9	3478.4	3898.6	5921.8	11646.5	16385.5	15099.0	14678.8	11861.8	11758.1
65°	2487.5	2453.8	2567.9	2824.7	3556.2	8904.8	16595.6	18076.7	17700.6	13208.0	12959.0
67.5°	1789.8	1784.6	1916.9	2383.8	2526.4	5128.1	15039.3	20774.4	20546.1	14805.9	13690.5
69°	1481.1	1483.7	1610.8	2134.8	2412.3	3501.7	12940.9	21238.7	21197.2	15630.7	13553.0
70°	1291.8	1302.1	1450.0	1986.9	2365.6	2879.2	11156.3	20782.2	20740.7	15791.5	13099.1
72.5°	796.3	804.1	998.6	1592.6	2248.9	2350.1	6671.5	17002.9	17145.5	15054.9	11286.0
75°	381.3	383.9	524.0	1151.7	2168.5	2228.1	3574.4	12546.6	12847.5	12154.9	8819.2
77.5°	202.3	202.3	251.6	612.2	1756.1	2095.9	2121.8	8850.3	9099.3	7685.7	5014.0
80°	101.2	103.8	153.0	319.0	1089.4	2054.4	1657.5	5278.5	5413.4	3136.0	1561.5
82.5°	38.9	41.5	72.6	191.9	565.5	1735.3	1455.2	2596.5	2562.8	734.1	381.3
85°	5.2	5.2	25.9	114.1	241.2	765.2	1201.0	1084.2	1047.9	160.8	184.2
87.5°	0.0	0.0	5.2	33.7	72.6	223.1	464.3	298.3	332.0	44.1	90.8
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°	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0	4848.0
2.5°	4923.2	4868.7	4785.7	4705.3	4619.7	4515.9	4401.8	4360.3	4287.7	4282.5	4324.0
5°	4918.0	4829.8	4684.5	4513.3	4269.5	4085.4	3885.6	3740.4	3628.8	3556.2	3574.4
7.5°	4943.9	4837.6	4586.0	4217.6	3903.8	3538.1	3229.4	3016.7	2822.1	2726.2	2715.8
10°	4902.4	4759.8	4391.4	3875.3	3413.5	2902.6	2451.2	2165.9	1875.4	1769.0	1774.2
12.5°	4925.8	4726.0	4181.3	3522.5	2887.0	2223.0	1683.4	1294.3	1022.0	933.8	923.4
15°	4941.3	4653.4	3979.0	3099.7	2303.4	1514.8	975.3	734.1	648.5	632.9	630.3
17.5°	4881.7	4565.2	3693.7	2682.1	1706.8	920.8	648.5	599.2	583.6	573.2	568.1
20°	4879.1	4513.3	3447.3	2254.1	1138.7	627.7	560.3	542.1	518.8	511.0	511.0
22.5°	4835.0	4404.4	3151.6	1784.6	726.3	539.5	503.2	474.7	448.7	438.4	435.8
25°	4822.0	4277.3	2874.0	1341.0	552.5	482.5	446.1	404.6	373.5	358.0	350.2
27.5°	4785.7	4168.4	2593.9	944.2	482.5	430.6	383.9	339.8	303.5	280.1	277.5
30°	4656.0	4054.2	2282.6	653.7	438.4	381.3	329.4	277.5	241.2	225.7	220.5
32.5°	4601.5	3947.9	1942.8	503.2	399.5	337.2	277.5	230.9	202.3	186.8	184.2
35°	4536.7	3792.3	1613.4	438.4	363.1	293.1	233.4	194.5	171.2	158.2	158.2
37.5°	4544.5	3667.7	1304.7	396.9	324.2	251.6	199.7	166.0	145.3	132.3	132.3
40°	4521.1	3569.2	1014.2	360.5	287.9	215.3	168.6	140.1	121.9	108.9	106.3
42.5°	4627.5	3543.2	765.2	329.4	251.6	184.2	145.3	119.3	101.2	85.6	85.6
45°	4806.5	3584.7	596.6	300.9	215.3	158.2	124.5	98.6	80.4	70.0	67.4
47.5°	5283.7	3748.2	466.9	277.5	184.2	137.5	103.8	80.4	64.8	54.5	51.9
50°	5976.3	4113.9	396.9	243.8	155.6	116.7	85.6	62.3	51.9	41.5	38.9
52.5°	6962.0	4728.6	360.5	215.3	129.7	96.0	67.4	49.3	38.9	31.1	28.5
55°	8035.8	5496.4	326.8	181.6	108.9	77.8	54.5	38.9	28.5	20.8	18.2
57.5°	8873.7	6160.5	298.3	150.4	88.2	62.3	41.5	28.5	20.8	13.0	10.4
60°	9789.3	6627.4	262.0	119.3	72.6	46.7	31.1	20.8	15.6	7.8	7.8
62.5°	10733.5	7174.7	215.3	93.4	57.1	36.3	23.3	15.6	10.4	2.6	2.6
65°	12046.0	7602.7	166.0	72.6	44.1	25.9	18.2	13.0	5.2	0.0	0.0
67.5°	12416.9	7392.6	121.9	57.1	31.1	18.2	13.0	7.8	2.6	0.0	0.0
69°	12046.0	6658.5	106.3	49.3	25.9	15.6	10.4	5.2	2.6	0.0	0.0
70°	11369.0	6087.8	93.4	41.5	23.3	15.6	7.8	5.2	2.6	0.0	0.0
72.5°	9509.2	4669.0	72.6	31.1	18.2	13.0	7.8	5.2	0.0	0.0	0.0
75°	6974.9	2884.4	54.5	23.3	15.6	10.4	7.8	5.2	0.0	0.0	0.0
77.5°	3737.8	1053.1	38.9	15.6	10.4	7.8	7.8	5.2	0.0	0.0	0.0
80°	1024.6	311.3	28.5	10.4	7.8	5.2	5.2	2.6	0.0	0.0	0.0
82.5°	280.1	80.4	18.2	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
85°	150.4	31.1	10.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	77.8	10.4	7.8	5.2	5.2	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)