

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: P480673

Luminaire Tested: **IFLD-M-SA4B-830-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480673  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

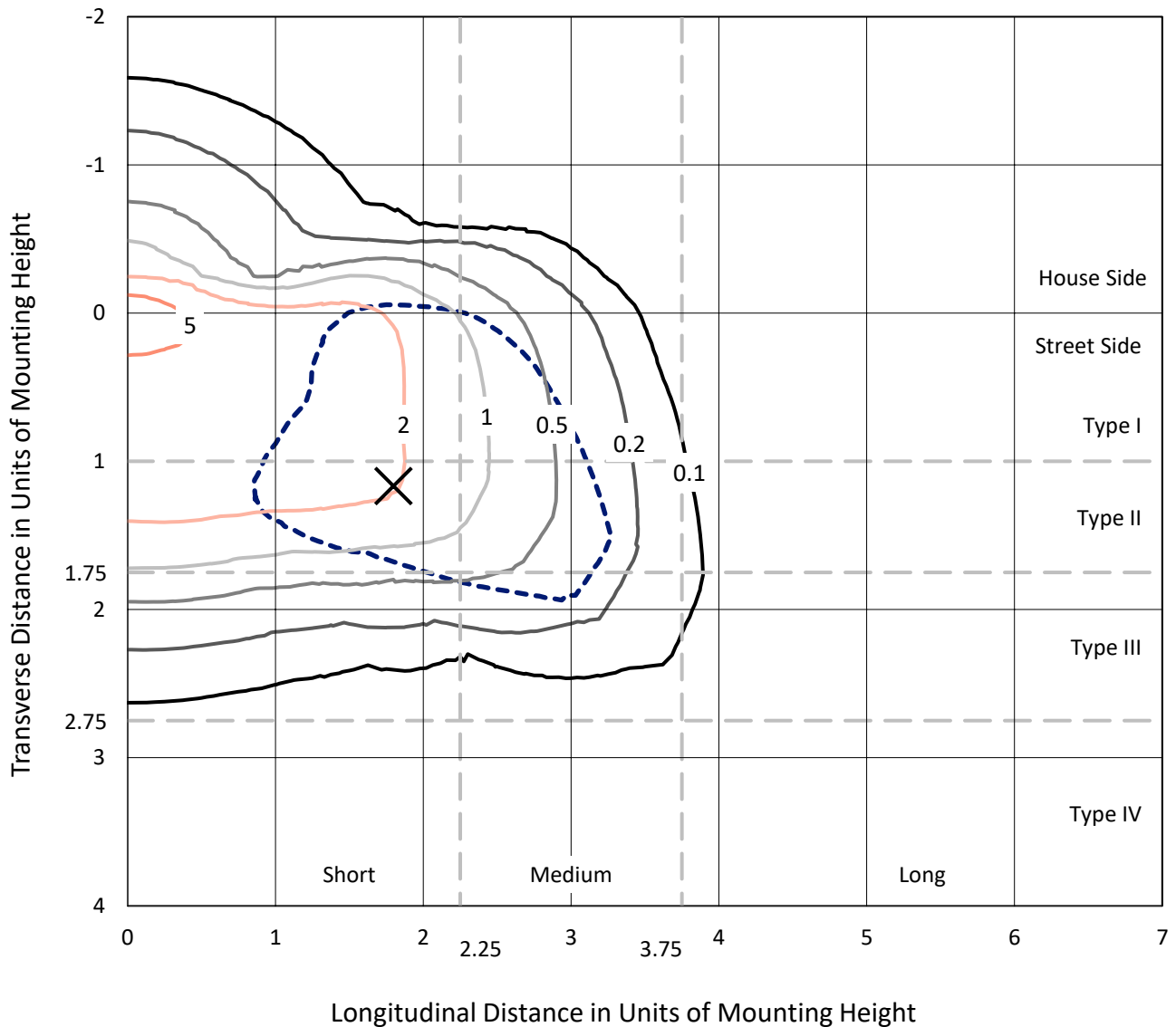
Lumens per Lamp: N/A  
Luminaire Lumens: 17907.3 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

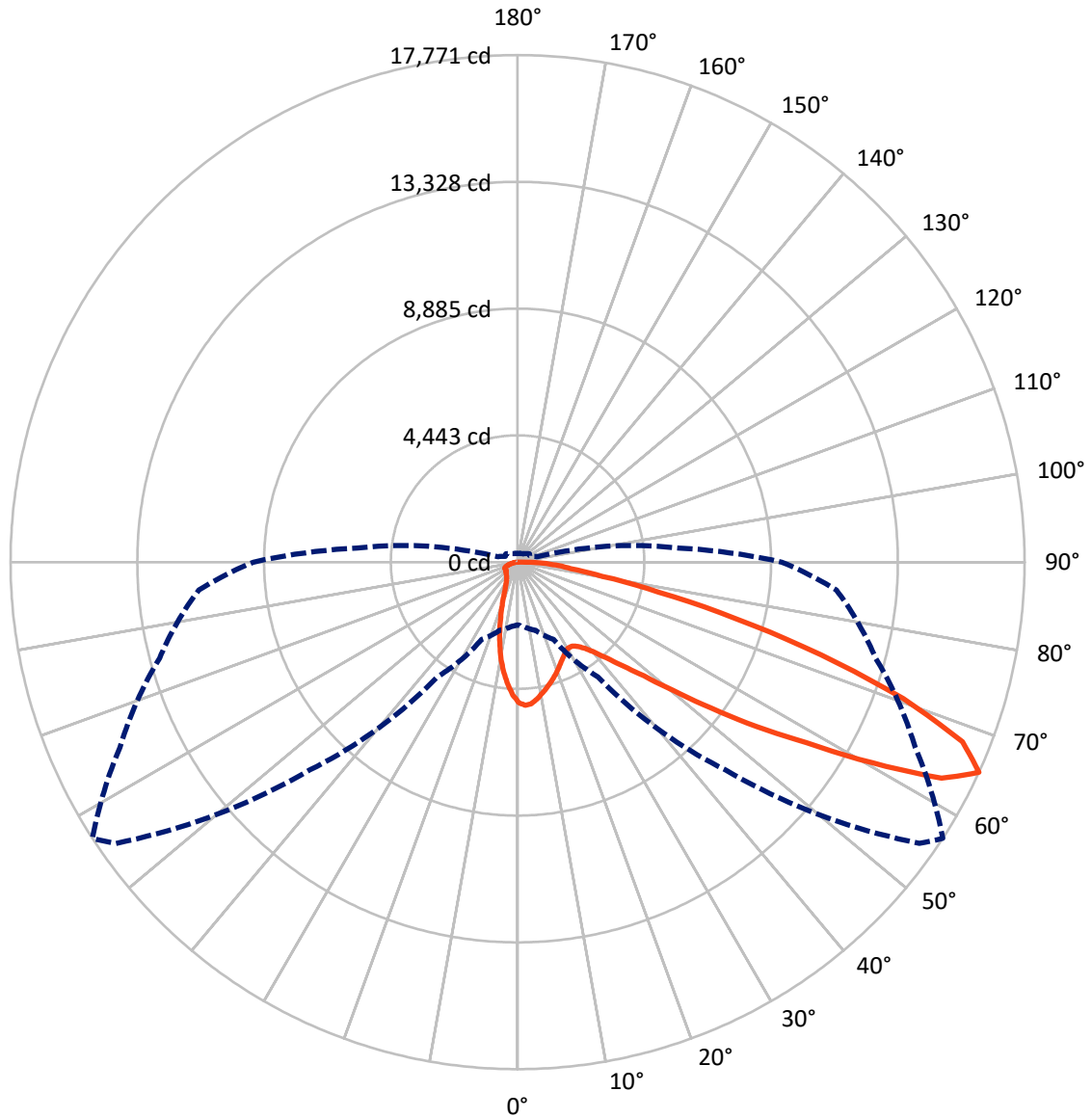
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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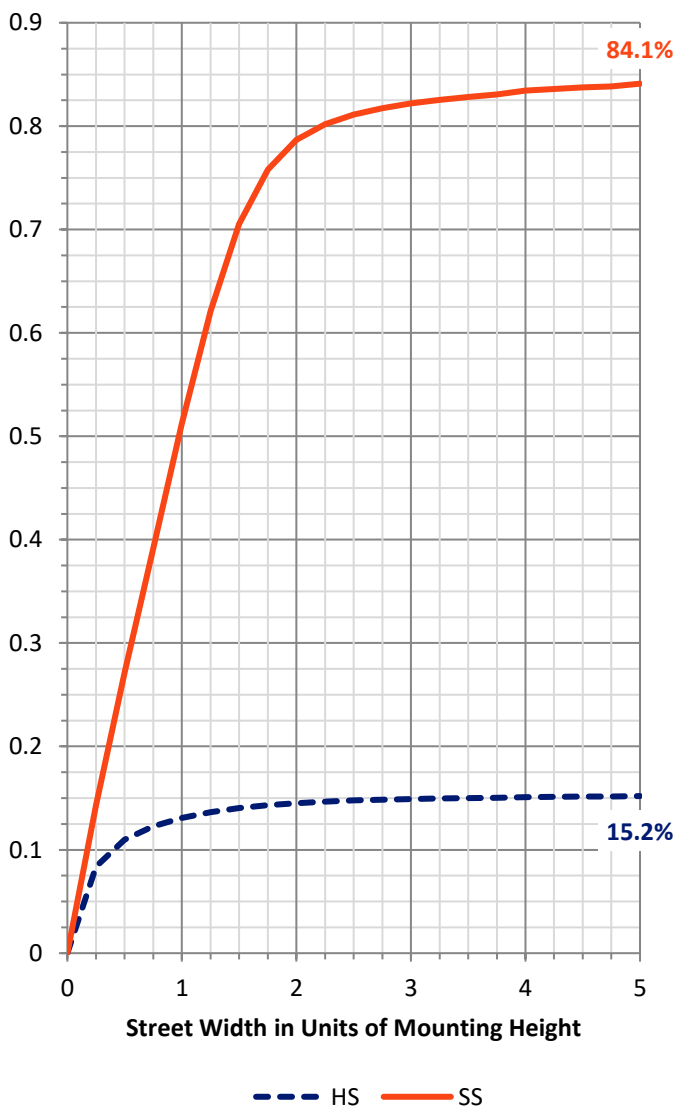
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2746.3	0.0	2746.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	15161.1	0.0	15161.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	17907.3	0.0	17907.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.4	2.3
10°-20°	887.5	5.0
20°-30°	1147.4	6.4
30°-40°	1544.1	8.6
40°-50°	2462.1	13.7
50°-60°	4348.7	24.3
60°-70°	4784.1	26.7
70°-80°	2001.3	11.2
80°-90°	319.8	1.8
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°	17907.3	100.0
0°-180°	17907.3	100.0

**Coefficient of Utilization**



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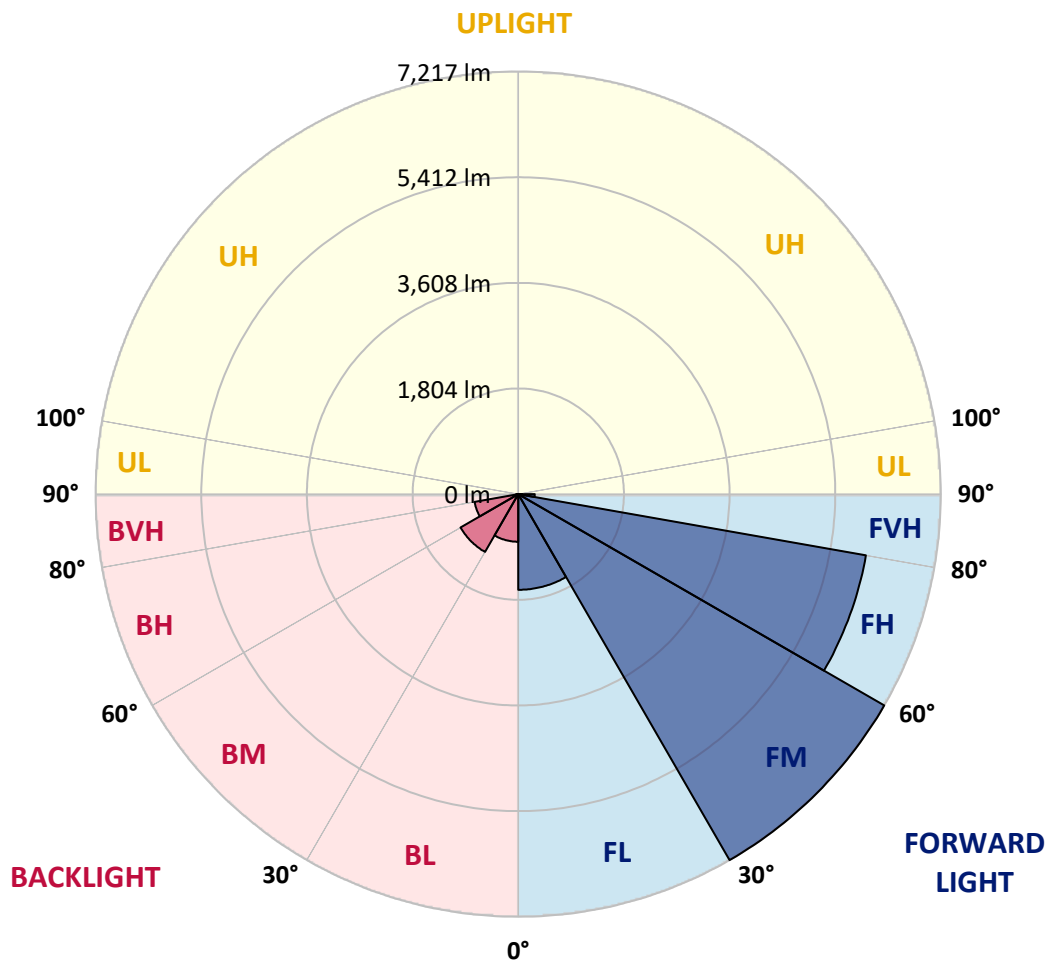
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.0	9.1			
FM (30°-60°)	7216.6	40.3			
FH (60°-80°)	6028.1	33.7			G3/7500
FVH (80°-90°)	282.3	1.6			G3/500
BL (0°-30°)	813.3	4.5	B2/1000		
BM (30°-60°)	1138.2	6.4	B2/2500		
BH (60°-80°)	757.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	37.5	0.2			G1/100
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°	57°	65°	75°	85°
0°	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3
2.5°	5057.2	5065.3	5065.3	5081.4	5027.0	5053.2	5049.2	5025.0	5033.1	4990.7	4948.4
5°	4914.2	4908.1	4940.4	4944.4	4986.7	4998.8	5008.9	4992.8	4996.8	4904.1	4863.8
7.5°	4547.5	4545.5	4599.9	4646.2	4734.9	4817.5	4871.9	4855.8	4877.9	4819.5	4724.8
10°	4112.3	4158.6	4215.0	4261.4	4424.6	4529.4	4670.4	4684.5	4769.1	4755.0	4583.8
12.5°	3785.9	3806.0	3848.3	3981.3	4130.4	4303.7	4505.2	4523.3	4605.9	4646.2	4497.1
15°	3517.9	3536.0	3590.4	3689.2	3856.4	4061.9	4317.8	4364.1	4529.4	4543.5	4384.3
17.5°	3322.5	3336.6	3372.8	3471.6	3608.6	3872.5	4114.3	4196.9	4414.5	4483.0	4267.4
20°	3245.9	3215.7	3235.8	3298.3	3435.3	3638.8	3951.1	4023.6	4301.7	4436.7	4156.6
22.5°	3211.6	3185.5	3197.5	3193.5	3302.3	3447.4	3775.8	3852.4	4194.9	4382.3	4057.9
25°	3237.8	3237.8	3225.8	3215.7	3227.8	3322.5	3586.4	3705.3	4051.8	4335.9	3957.1
27.5°	3378.9	3324.5	3330.5	3288.2	3276.1	3276.1	3501.8	3572.3	4005.5	4309.7	3874.5
30°	3469.5	3495.7	3497.8	3435.3	3372.8	3260.0	3423.2	3491.7	3967.2	4342.0	3826.2
32.5°	3701.3	3689.2	3654.9	3642.8	3550.1	3423.2	3461.5	3507.8	3945.0	4414.5	3840.3
35°	3933.0	3926.9	3928.9	3922.9	3826.2	3638.8	3564.2	3626.7	3985.3	4541.4	3888.6
37.5°	4172.7	4188.8	4257.3	4257.3	4154.6	3951.1	3852.4	3834.2	4132.4	4749.0	4003.5
40°	4412.5	4452.8	4539.4	4676.4	4531.4	4342.0	4182.8	4154.6	4309.7	5027.0	4279.5
42.5°	4642.2	4708.7	4879.9	5083.4	5035.1	4845.7	4634.1	4601.9	4674.4	5440.1	4664.3
45°	4936.3	4992.8	5262.8	5575.1	5641.5	5474.3	5226.5	5200.3	5196.3	6044.5	5194.2
47.5°	5383.6	5444.1	5714.1	6028.4	6233.9	6260.1	5982.0	5953.8	5857.1	6860.5	5970.0
50°	5943.8	6042.5	6270.2	6636.9	6935.1	7215.1	7136.5	7053.9	6864.5	7809.5	6953.2
52.5°	6352.8	6473.7	6781.9	7251.4	7777.3	8222.5	8504.6	8504.6	8069.4	8851.2	8135.9
55°	6461.6	6534.1	6923.0	7602.0	8502.6	9628.9	10219.2	10174.9	9504.0	9947.2	9512.0
57.5°	6028.4	6123.1	6594.6	7305.8	8883.4	10944.6	11921.8	11931.9	11071.5	11220.6	10870.0
60°	4835.6	4865.8	5421.9	6372.9	8516.7	12004.4	14246.9	14285.2	12854.7	12355.0	11561.1
62.5°	3342.6	3439.3	3858.4	4692.6	7056.0	11885.5	16489.4	16678.8	14283.2	12953.4	11669.9
65°	2200.2	2258.6	2482.3	2990.0	4912.2	10301.9	17186.6	17770.9	15375.2	12987.6	11214.6
67.5°	1595.8	1605.8	1672.3	1934.2	2951.7	7408.6	15995.8	16819.9	15784.2	12701.5	10146.7
70°	1289.5	1297.6	1321.7	1489.0	1906.0	4636.1	13046.1	14337.6	14557.2	11345.5	8172.2
72.5°	1047.7	1057.8	1088.0	1245.2	1571.6	2579.0	9540.2	11113.8	11841.2	8393.8	5432.0
75°	824.1	832.1	904.7	1059.8	1476.9	1771.0	6328.6	7869.9	7968.7	4906.1	2542.7
77.5°	564.2	578.3	666.9	898.6	1390.2	1549.4	3945.0	5041.1	4523.3	1920.1	874.4
80°	358.6	378.8	431.2	681.0	1229.1	1478.9	2454.1	3010.2	1980.6	656.8	421.1
82.5°	211.6	231.7	284.1	441.2	965.1	1372.1	1728.7	1883.9	928.8	336.5	253.9
85°	116.9	131.0	171.3	266.0	566.2	1219.0	1384.2	1352.0	531.9	179.3	159.2
87.5°	38.3	44.3	62.5	106.8	233.7	574.2	830.1	779.7	276.0	82.6	62.5
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°	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3	4924.3
2.5°	4920.2	4914.2	4823.5	4755.0	4638.2	4541.4	4503.2	4450.8	4448.8	4410.5	4400.4
5°	4801.4	4738.9	4599.9	4466.9	4259.4	4120.3	3993.4	3904.8	3868.5	3789.9	3771.8
7.5°	4648.2	4565.6	4352.0	4102.2	3858.4	3640.8	3443.4	3245.9	3135.1	3096.8	3054.5
10°	4489.1	4344.0	4027.7	3747.6	3407.1	3072.6	2762.3	2484.3	2333.2	2226.4	2180.1
12.5°	4362.1	4168.7	3765.7	3346.6	2897.3	2450.0	2089.4	1797.2	1626.0	1545.4	1509.1
15°	4219.1	3963.2	3479.6	2949.7	2389.6	1881.9	1529.3	1299.6	1231.1	1192.8	1186.7
17.5°	4068.0	3771.8	3169.3	2558.8	1893.9	1416.4	1188.8	1096.1	1065.8	1049.7	1041.7
20°	3926.9	3600.5	2851.0	2123.6	1482.9	1136.4	1029.6	981.2	979.2	987.3	985.3
22.5°	3727.4	3376.9	2536.7	1720.7	1184.7	989.3	920.8	908.7	920.8	930.9	934.9
25°	3614.6	3193.5	2186.1	1366.1	979.2	878.5	856.3	852.3	870.4	882.5	880.5
27.5°	3497.8	3004.1	1859.7	1094.1	858.3	799.9	795.9	799.9	818.0	836.2	834.1
30°	3407.1	2853.0	1553.4	914.7	765.6	743.5	739.4	743.5	753.5	755.6	755.6
32.5°	3332.5	2673.7	1293.5	793.8	709.2	691.1	695.1	693.1	695.1	697.1	699.1
35°	3288.2	2566.9	1080.0	719.3	662.9	648.8	646.8	640.7	642.7	644.7	642.7
37.5°	3382.9	2514.5	910.7	666.9	630.6	618.6	614.5	610.5	604.5	604.5	604.5
40°	3526.0	2486.3	807.9	632.7	606.5	592.4	580.3	576.2	576.2	578.3	580.3
42.5°	3810.1	2532.6	737.4	606.5	576.2	560.1	548.0	550.1	556.1	562.1	558.1
45°	4221.1	2673.7	705.2	586.3	558.1	535.9	527.9	525.9	531.9	542.0	550.1
47.5°	4759.0	2893.3	693.1	568.2	546.0	515.8	505.7	511.8	519.8	533.9	527.9
50°	5639.5	3386.9	703.2	552.1	527.9	505.7	493.6	487.6	493.6	503.7	507.7
52.5°	6790.0	4283.5	741.5	544.0	515.8	497.7	477.5	467.4	473.5	481.5	481.5
55°	8166.1	5508.6	848.2	533.9	495.6	485.6	463.4	443.3	447.3	447.3	445.3
57.5°	9379.1	6433.4	975.2	519.8	483.6	469.5	441.2	417.1	413.0	415.1	417.1
60°	9923.1	6679.2	1035.6	515.8	483.6	449.3	411.0	386.8	380.8	376.8	376.8
62.5°	9828.4	6254.1	912.7	497.7	495.6	433.2	382.8	356.6	348.6	340.5	342.5
65°	9256.2	5647.6	719.3	473.5	497.7	423.1	354.6	328.4	314.3	304.2	302.2
67.5°	8210.5	4821.5	570.2	455.4	477.5	405.0	330.4	300.2	288.1	278.0	274.0
70°	6423.3	3779.8	495.6	431.2	429.2	360.7	302.2	276.0	257.9	245.8	245.8
72.5°	4164.7	2389.6	425.1	382.8	370.7	302.2	261.9	245.8	231.7	221.6	221.6
75°	1885.9	1110.2	342.5	320.4	302.2	241.8	221.6	213.6	201.5	191.4	191.4
77.5°	677.0	473.5	255.9	251.9	225.7	187.4	179.3	173.3	165.2	155.1	155.1
80°	378.8	300.2	191.4	183.4	157.2	139.0	128.9	128.9	124.9	118.9	116.9
82.5°	239.8	195.4	141.0	122.9	102.8	92.7	88.7	86.6	84.6	76.6	74.5
85°	151.1	133.0	92.7	72.5	60.4	46.3	44.3	42.3	38.3	34.3	34.3
87.5°	68.5	76.6	36.3	22.2	16.1	10.1	6.0	2.0	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)