

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: P479973

Luminaire Tested: **IFLD-M-SA4D-722-U-SL2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479973  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

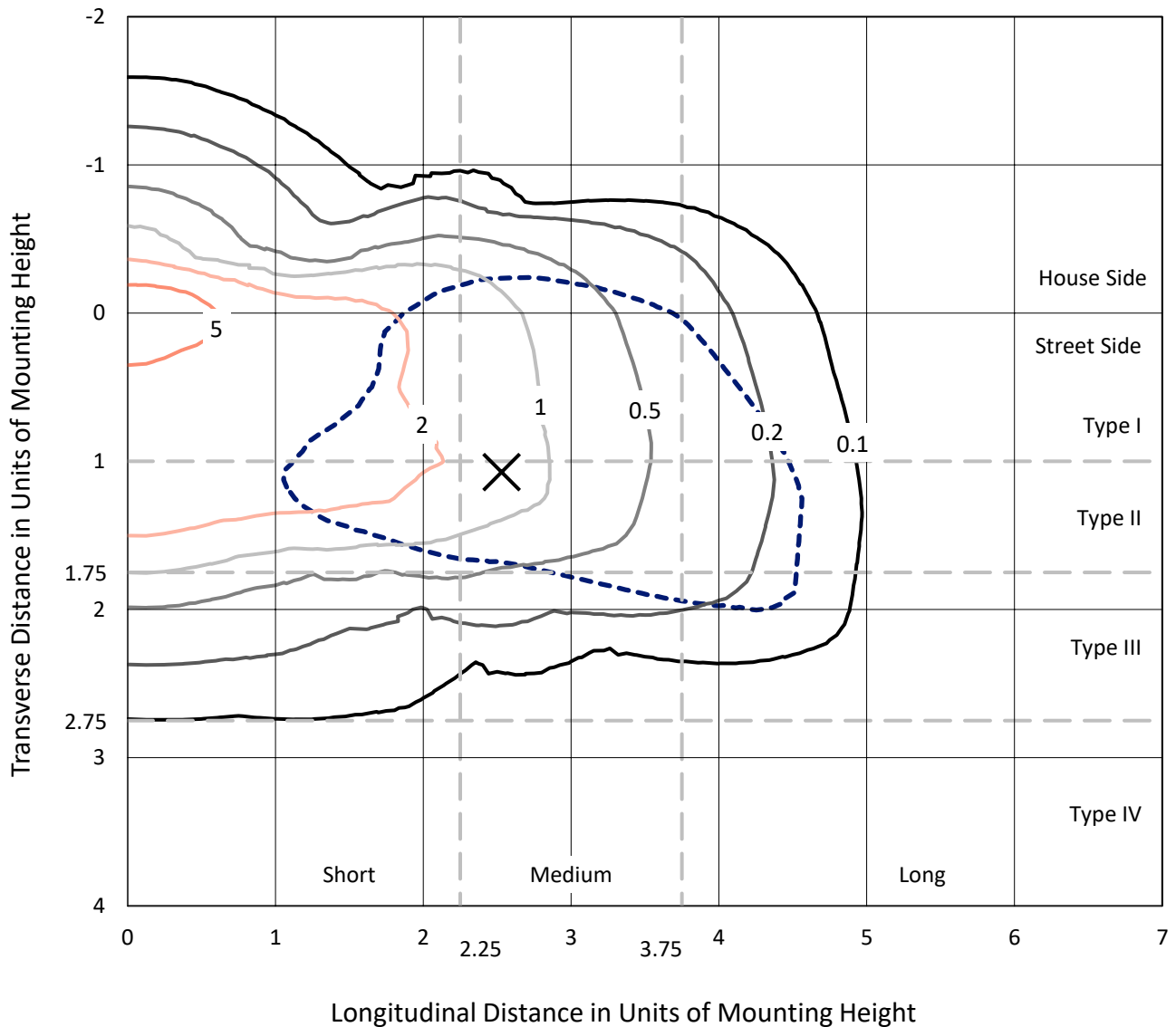
Lumens per Lamp: N/A  
Luminaire Lumens: 22976 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

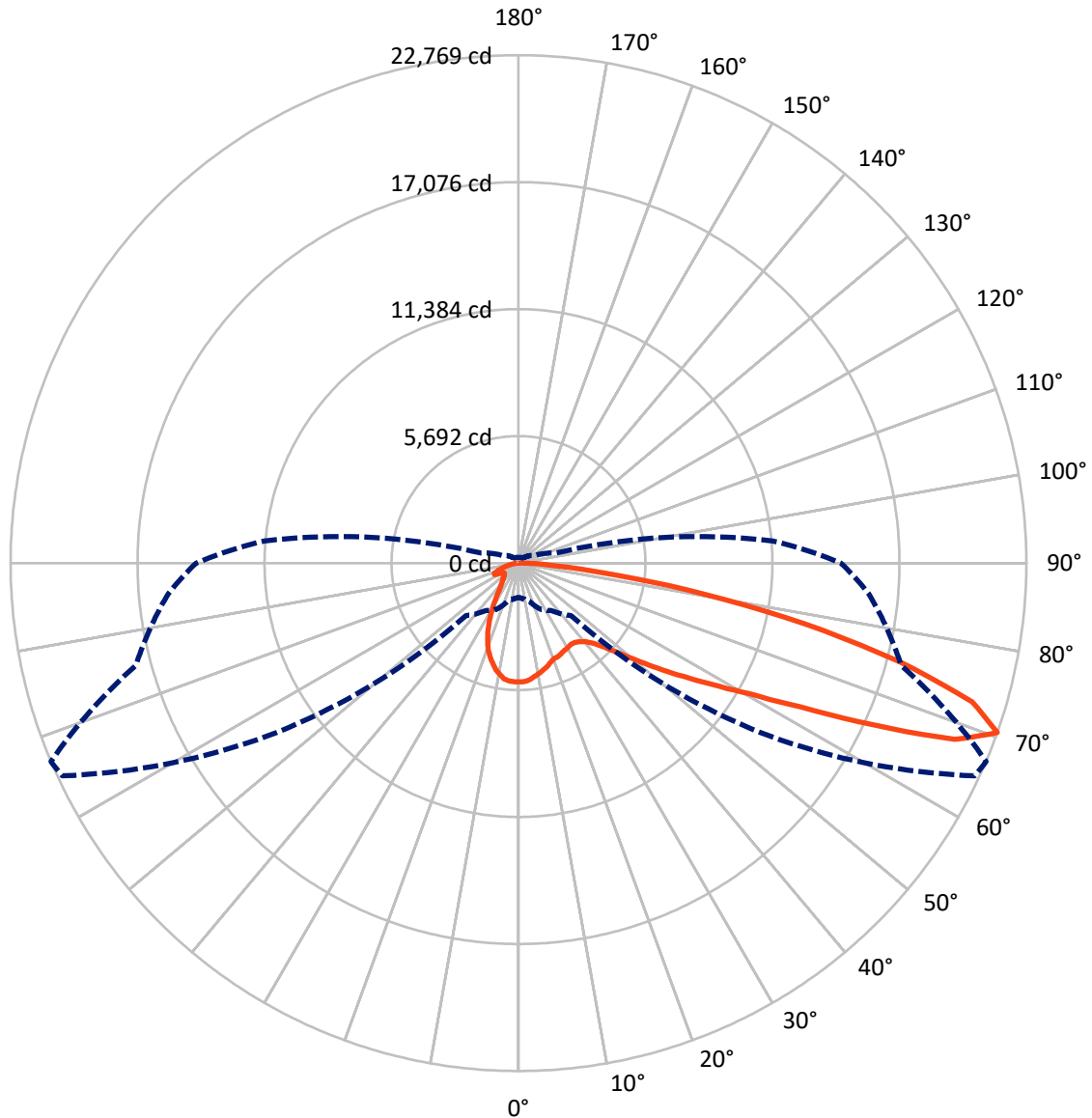
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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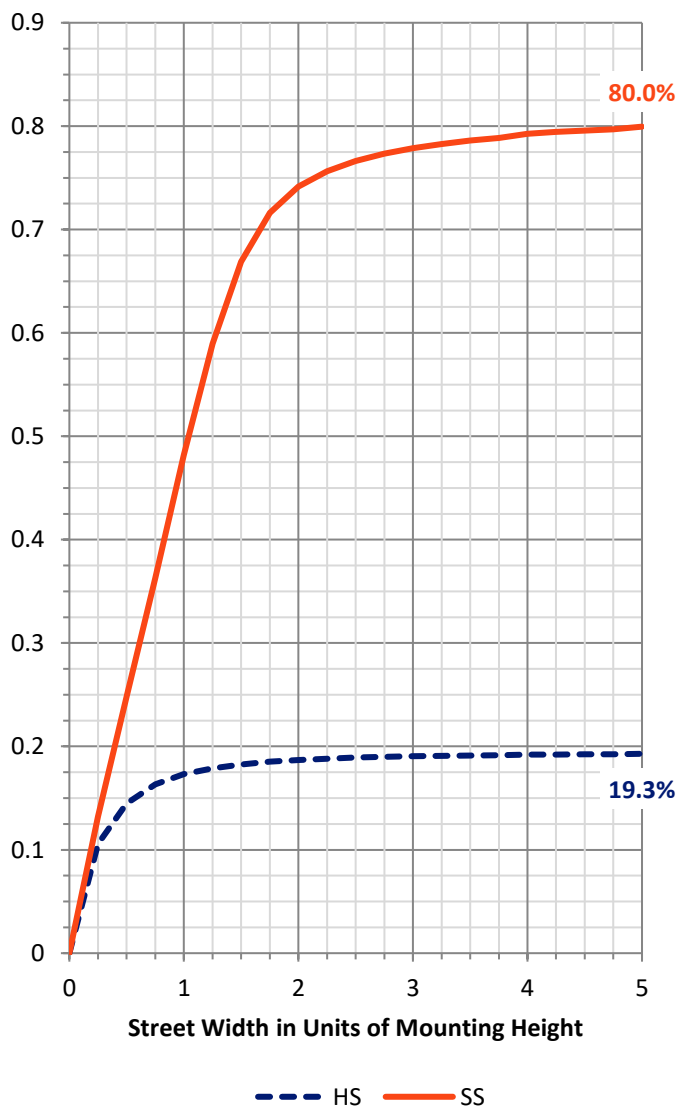
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4474.8	0.0	4474.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18501.2	0.0	18501.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	22976.0	0.0	22976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.1	2.0
10°-20°	1111.5	4.8
20°-30°	1500.9	6.5
30°-40°	2008.4	8.7
40°-50°	2953.3	12.9
50°-60°	4603.5	20.0
60°-70°	5670.7	24.7
70°-80°	4006.9	17.4
80°-90°	656.7	2.9
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°	22976.0	100.0
0°-180°	22976.0	100.0

**Coefficient of Utilization**



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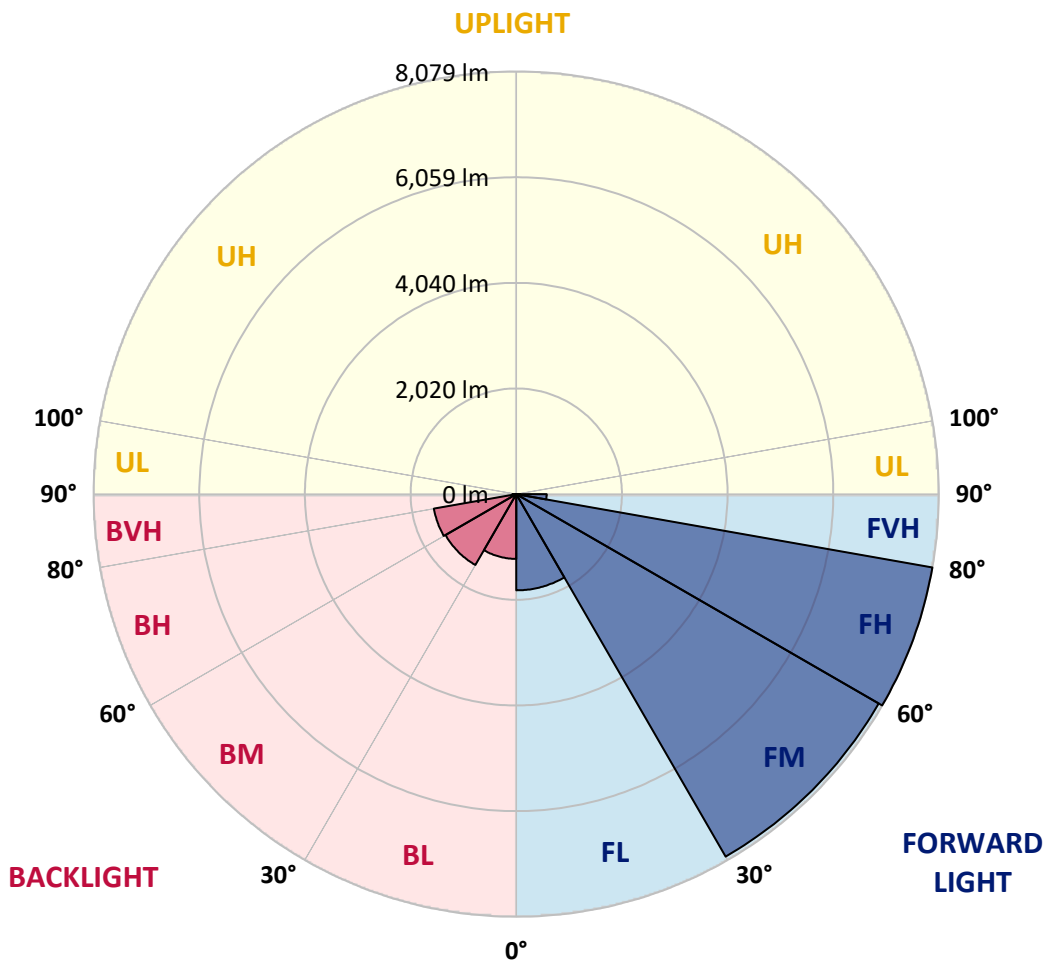
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1839.1	8.0			
FM	(30°-60°)	8002.0	34.8			
FH	(60°-80°)	8079.1	35.2			G4/12000
FVH	(80°-90°)	581.0	2.5			G4/750
BL	(0°-30°)	1237.4	5.4	B3/2500		
BM	(30°-60°)	1563.1	6.8	B2/2500		
BH	(60°-80°)	1598.5	7.0	B3/2500		G3/2500
BVH	(80°-90°)	75.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9
2.5°	4952.6	5008.5	5028.9	5059.4	5138.3	5196.8	5232.4	5273.1	5321.4	5362.1	5387.5
5°	4606.6	4637.1	4685.5	4718.5	4817.8	4975.5	5082.3	5255.3	5250.2	5313.8	5410.4
7.5°	4270.9	4301.4	4324.3	4390.4	4532.9	4675.3	4871.2	5151.0	5130.6	5278.2	5428.2
10°	4062.3	4039.4	4047.0	4158.9	4270.9	4431.1	4677.8	4962.7	5036.5	5265.4	5479.1
12.5°	3866.4	3841.0	3902.0	3973.2	4110.6	4255.6	4550.7	4807.6	4919.5	5219.7	5502.0
15°	3744.3	3726.5	3802.8	3833.3	3996.1	4169.1	4377.7	4690.6	4812.7	5163.7	5466.4
17.5°	3675.6	3690.9	3718.9	3785.0	3889.3	4036.8	4265.8	4611.7	4665.1	5095.0	5458.8
20°	3688.4	3706.2	3708.7	3736.7	3807.9	3922.4	4156.4	4527.8	4563.4	5082.3	5479.1
22.5°	3790.1	3764.7	3774.8	3757.0	3777.4	3866.4	4072.4	4415.8	4553.2	4975.5	5435.9
25°	3942.7	3907.1	3902.0	3841.0	3802.8	3828.3	4057.2	4387.9	4476.9	4942.4	5433.3
27.5°	4212.4	4158.9	4158.9	4067.4	3912.2	3871.5	4013.9	4342.1	4420.9	4911.9	5374.8
30°	4471.8	4471.8	4474.4	4344.6	4171.7	3970.7	4031.8	4324.3	4375.1	4820.3	5296.0
32.5°	4787.2	4779.6	4766.9	4703.3	4436.2	4136.0	4118.2	4301.4	4326.8	4789.8	5273.1
35°	5095.0	5074.7	5173.9	5117.9	4845.7	4459.1	4207.3	4311.6	4367.5	4744.0	5201.8
37.5°	5326.5	5339.2	5545.2	5580.9	5346.8	4825.4	4459.1	4413.3	4466.7	4810.1	5201.8
40°	5626.6	5677.5	5870.8	5990.4	5847.9	5308.7	4858.4	4583.7	4621.9	4957.7	5313.8
42.5°	6020.9	6064.2	6310.9	6466.1	6425.4	5924.3	5252.7	4939.8	4909.3	5204.4	5481.7
45°	6542.4	6550.0	6799.3	7013.0	7096.9	6567.8	5878.5	5390.1	5364.6	5629.2	5789.4
47.5°	7163.0	7155.4	7310.6	7539.5	7765.9	7336.0	6598.3	6074.3	5982.8	6237.1	6300.7
50°	7763.3	7730.3	7765.9	8058.4	8493.4	8297.5	7473.4	6911.2	6819.6	6959.5	7068.9
52.5°	8094.0	8134.7	8038.1	8424.7	9266.7	9434.6	8633.3	7910.9	7832.0	7900.7	8091.5
55°	7862.5	7946.5	7882.9	8249.2	9605.0	10820.9	10134.1	9068.3	8966.5	8941.1	9253.9
57.5°	6878.1	7030.8	7043.5	7623.4	9488.0	11894.3	12245.3	10434.2	10281.6	10022.1	10345.2
60°	5280.7	5433.3	5550.3	6237.1	8485.8	12535.3	14692.4	12377.6	11874.0	11202.4	11395.7
62.5°	3701.1	3805.4	3922.4	4344.6	6542.4	12158.8	16808.7	15114.6	14186.2	12446.3	12687.9
65°	2696.3	2777.7	2897.3	3146.5	4019.0	10060.3	17790.6	18365.4	17485.3	14028.5	13997.9
67.5°	2029.9	2080.7	2238.4	2637.8	2785.3	6214.2	16773.1	21799.4	21087.2	15786.1	15051.0
70°	1536.4	1579.6	1727.2	2274.1	2602.2	3332.2	13232.3	22565.1	22768.6	17757.5	15758.2
72.5°	1058.2	1106.5	1271.8	1895.0	2477.6	2642.9	8305.2	20499.6	21270.3	18568.9	15000.1
75°	648.6	681.7	778.4	1437.2	2459.7	2584.4	4571.0	16798.5	17615.1	17157.2	13122.9
77.5°	457.9	455.3	473.1	842.0	2131.6	2599.7	2818.4	12308.9	13102.6	12644.7	8905.5
80°	333.2	335.8	353.6	503.7	1447.4	2642.9	2220.6	8244.1	8480.7	6593.2	3512.8
82.5°	201.0	211.1	254.4	340.9	869.9	2386.0	2052.8	4581.2	4286.1	2116.4	966.6
85°	106.8	106.8	150.1	216.2	463.0	1780.6	1976.4	2179.9	1826.4	656.3	358.7
87.5°	25.4	25.4	43.2	86.5	185.7	852.1	1348.2	867.4	694.4	221.3	147.5
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°	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9	5318.9
2.5°	5377.4	5346.8	5385.0	5308.7	5247.6	5250.2	5156.1	5151.0	5138.3	5072.1	5095.0
5°	5438.4	5413.0	5369.7	5285.8	5151.0	5016.2	4934.8	4830.5	4787.2	4764.3	4774.5
7.5°	5496.9	5451.1	5326.5	5209.5	5000.9	4746.5	4599.0	4459.1	4281.0	4260.7	4225.1
10°	5512.2	5415.5	5255.3	5006.0	4728.7	4446.4	4110.6	3851.1	3713.8	3607.0	3566.3
12.5°	5489.3	5448.6	5140.8	4820.3	4400.6	3958.0	3566.3	3200.0	2945.6	2813.3	2777.7
15°	5486.7	5415.5	5013.6	4537.9	4001.2	3423.8	2866.7	2426.7	2159.6	2050.2	2050.2
17.5°	5489.3	5318.9	4863.5	4253.1	3530.6	2749.7	2136.7	1775.5	1628.0	1612.7	1625.4
20°	5438.4	5247.6	4705.8	3917.3	2940.5	2065.5	1551.7	1404.1	1404.1	1424.5	1432.1
22.5°	5392.6	5140.8	4456.5	3502.7	2340.2	1495.7	1261.7	1218.4	1266.8	1302.4	1317.6
25°	5329.0	5051.8	4202.2	3072.8	1780.6	1205.7	1096.3	1106.5	1152.3	1215.9	1210.8
27.5°	5237.5	4896.6	3899.5	2574.2	1325.3	1040.4	1012.4	1017.5	1065.8	1093.8	1088.7
30°	5133.2	4738.9	3619.7	2078.2	1050.5	953.9	951.3	964.1	971.7	987.0	984.4
32.5°	5000.9	4530.3	3322.1	1615.2	946.3	905.6	895.4	887.7	895.4	892.8	885.2
35°	4906.8	4418.4	3019.4	1231.1	887.7	862.3	854.7	842.0	831.8	816.5	814.0
37.5°	4881.3	4306.5	2701.4	1004.8	842.0	829.2	803.8	780.9	768.2	760.6	755.5
40°	4866.1	4232.7	2391.1	882.7	803.8	791.1	760.6	730.0	717.3	709.7	712.2
42.5°	4919.5	4192.0	2075.7	821.6	770.7	747.8	714.8	679.2	676.6	671.5	679.2
45°	5107.7	4242.9	1783.1	778.4	737.7	699.5	656.3	638.5	635.9	630.8	635.9
47.5°	5535.1	4370.1	1533.8	750.4	702.1	669.0	623.2	597.8	595.2	592.7	592.7
50°	6125.2	4761.8	1325.3	717.3	679.2	633.4	590.1	562.2	557.1	546.9	546.9
52.5°	7051.1	5420.6	1200.6	699.5	638.5	600.3	554.5	524.0	511.3	501.1	501.1
55°	8094.0	6237.1	1177.7	669.0	595.2	559.6	518.9	488.4	475.7	463.0	457.9
57.5°	9281.9	7318.2	1340.5	648.6	564.7	518.9	473.1	445.1	435.0	422.3	417.2
60°	10388.4	8396.7	1846.7	618.1	536.7	480.8	435.0	407.0	394.3	381.6	381.6
62.5°	11667.9	9732.2	2703.9	618.1	511.3	440.1	394.3	373.9	366.3	353.6	351.0
65°	13181.4	11113.4	3329.7	656.3	503.7	404.4	356.1	335.8	328.1	320.5	318.0
67.5°	14333.7	11907.0	2864.2	758.0	536.7	373.9	318.0	305.2	300.2	292.5	287.4
70°	14455.8	11423.7	1727.2	819.1	569.8	343.4	284.9	272.2	272.2	264.5	259.5
72.5°	13359.5	10136.6	1162.5	730.0	516.4	307.8	251.8	241.7	236.6	231.5	228.9
75°	11179.5	8597.7	918.3	582.5	396.8	254.4	218.8	208.6	201.0	198.4	193.3
77.5°	7509.0	5588.5	679.2	455.3	292.5	206.0	183.1	173.0	165.3	162.8	155.2
80°	2884.5	2129.1	437.5	330.7	206.0	162.8	145.0	134.8	129.7	122.1	117.0
82.5°	849.6	689.3	244.2	203.5	132.3	111.9	104.3	96.7	89.0	81.4	78.9
85°	351.0	315.4	150.1	106.8	81.4	66.1	61.0	53.4	45.8	40.7	35.6
87.5°	162.8	134.8	68.7	40.7	28.0	15.3	7.6	2.5	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)