

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: P480109

Luminaire Tested: **IFLD-S-SA3D-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480109  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

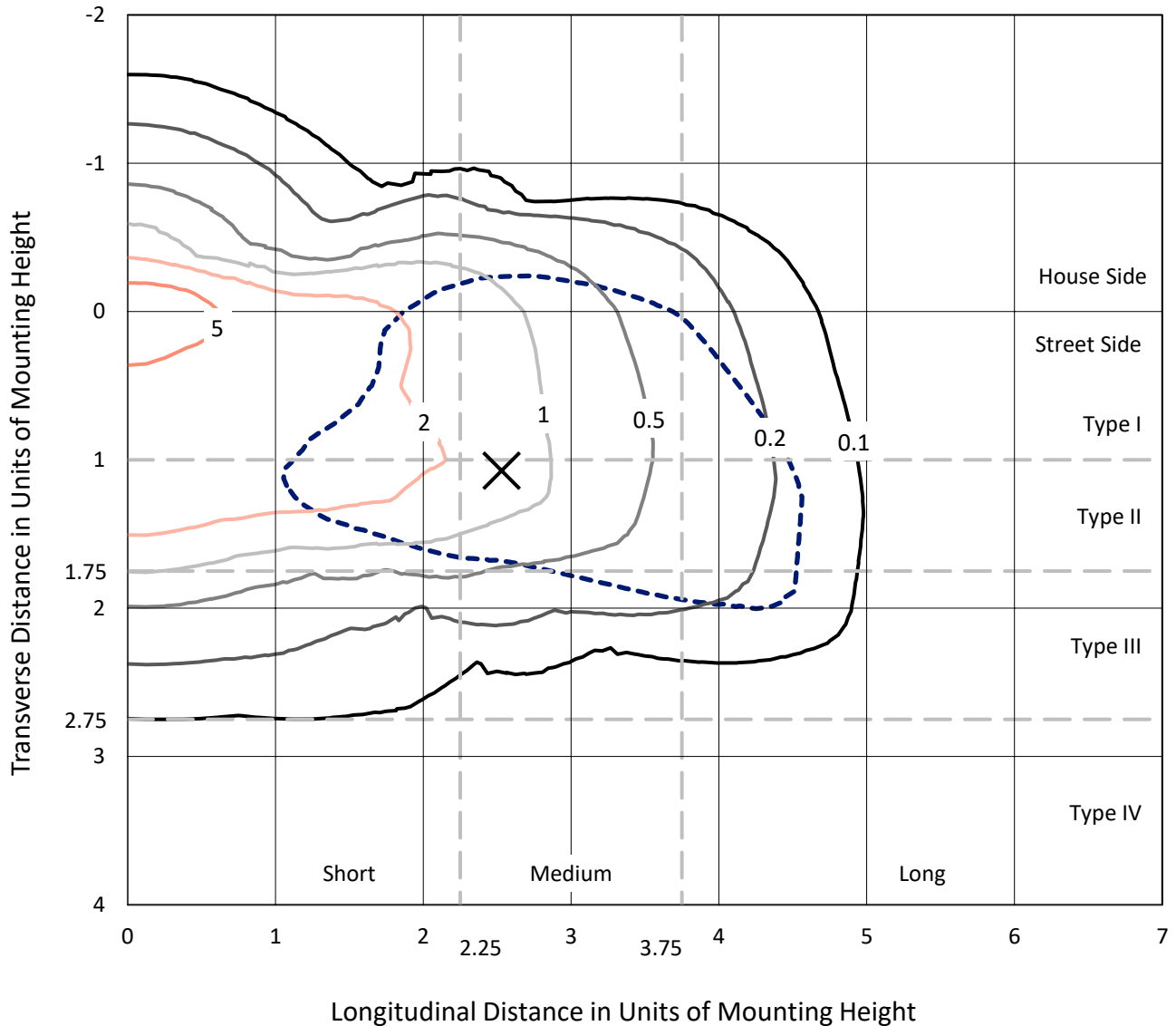
Lumens per Lamp: N/A  
Luminaire Lumens: 23238.4 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

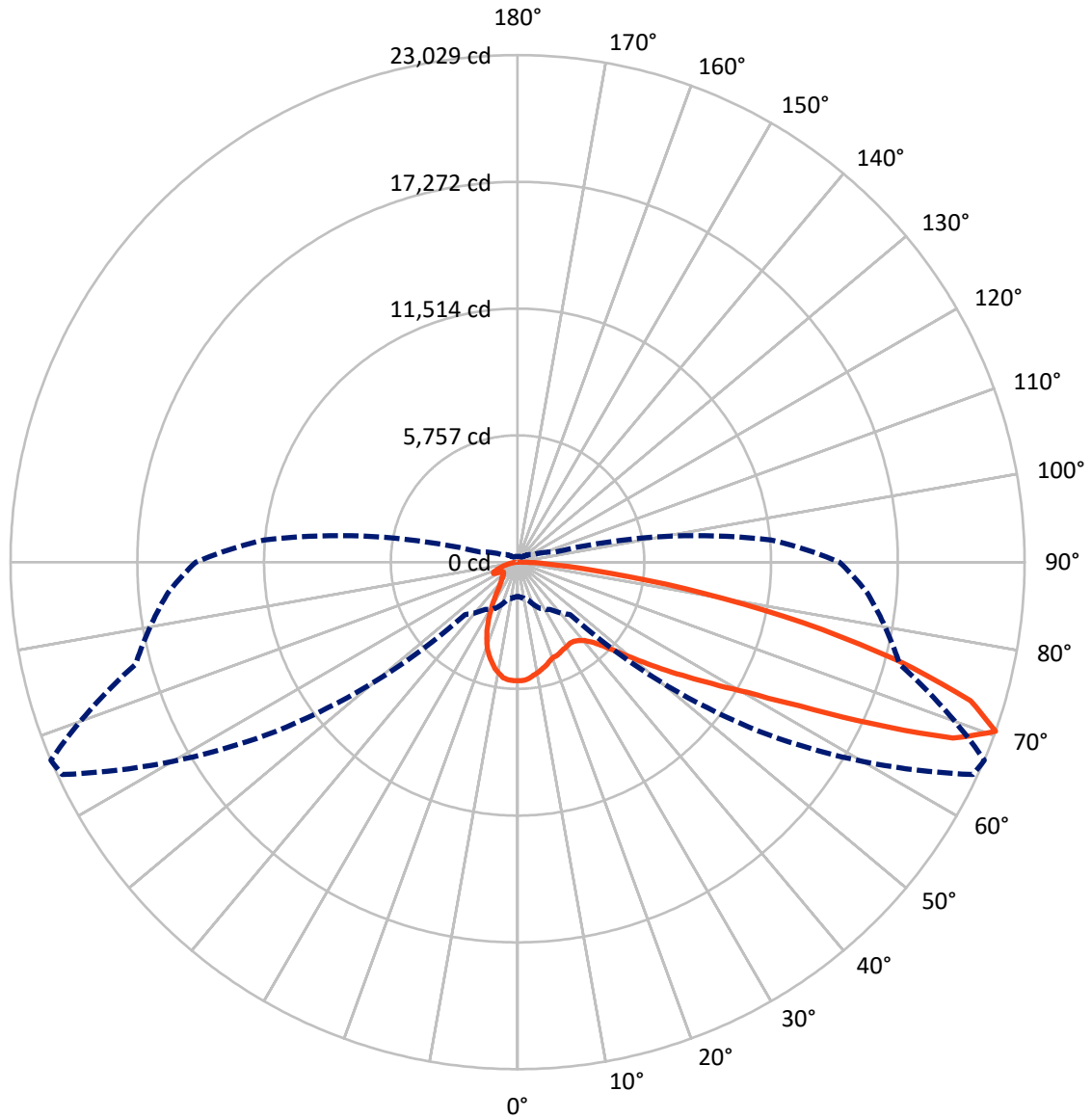
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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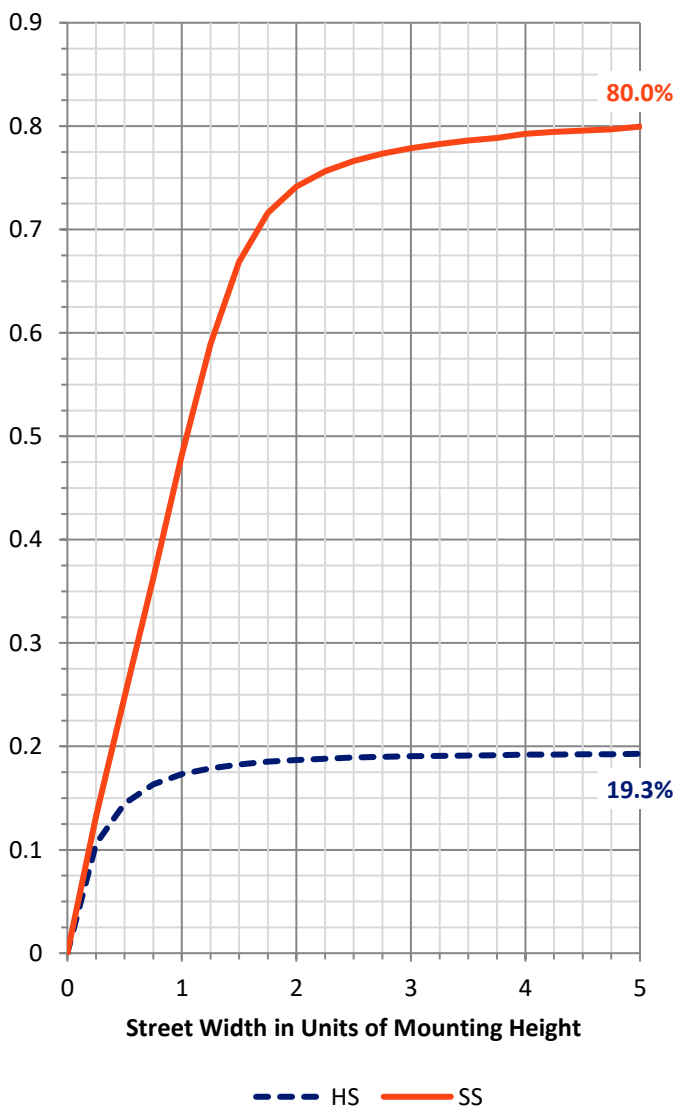
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4525.9	0.0	4525.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18712.5	0.0	18712.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	23238.4	0.0	23238.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.4	2.0
10°-20°	1124.2	4.8
20°-30°	1518.1	6.5
30°-40°	2031.3	8.7
40°-50°	2987.0	12.9
50°-60°	4656.0	20.0
60°-70°	5735.5	24.7
70°-80°	4052.6	17.4
80°-90°	664.2	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°	23238.4	100.0
0°-180°	23238.4	100.0

**Coefficient of Utilization**



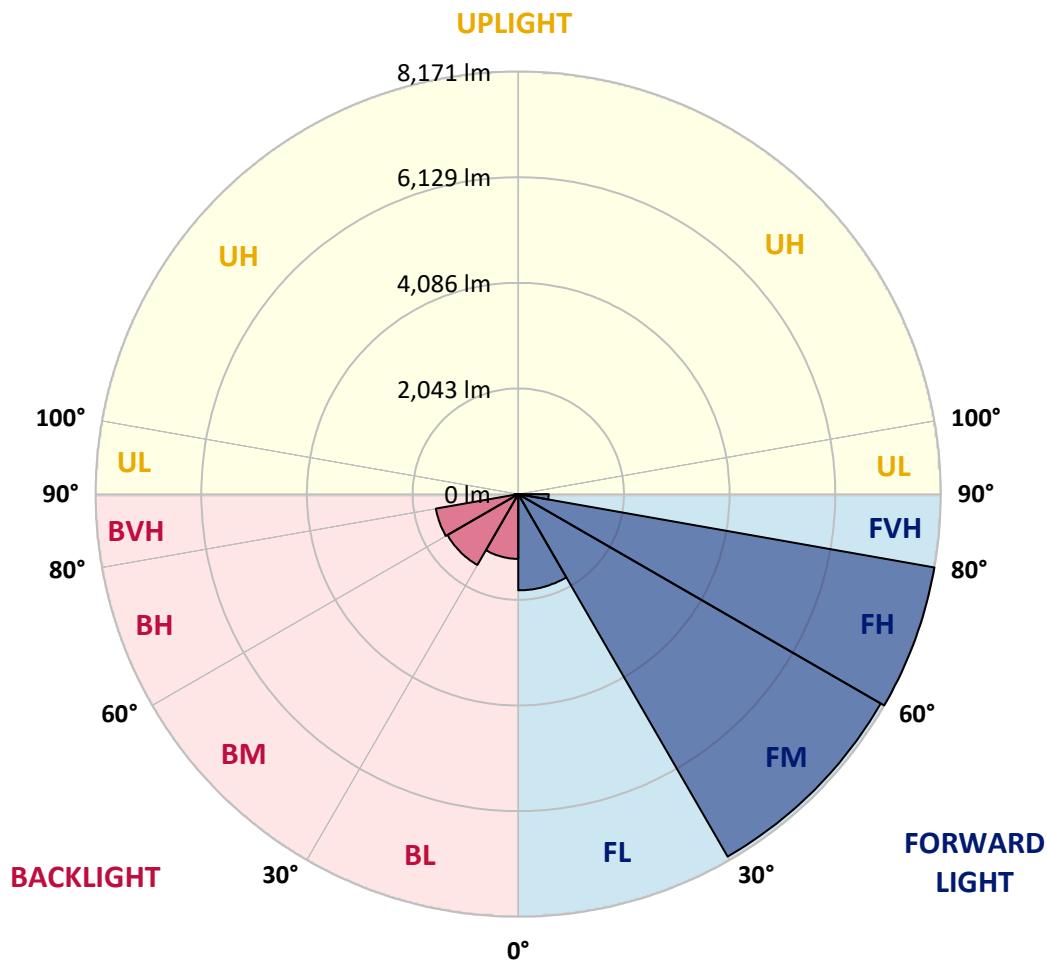
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1860.1	8.0			
FM (30°-60°)	8093.4	34.8			
FH (60°-80°)	8171.4	35.2			G4/12000
FVH (80°-90°)	587.6	2.5			G4/750
BL (0°-30°)	1251.6	5.4	B3/2500		
BM (30°-60°)	1581.0	6.8	B2/2500		
BH (60°-80°)	1616.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	76.6	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°	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6
2.5°	5009.1	5065.7	5086.3	5117.2	5197.0	5256.1	5292.2	5333.3	5382.2	5423.4	5449.1
5°	4659.3	4690.1	4739.0	4772.5	4872.8	5032.3	5140.4	5315.3	5310.2	5374.5	5472.2
7.5°	4319.7	4350.5	4373.7	4440.6	4584.6	4728.7	4926.8	5209.8	5189.2	5338.5	5490.3
10°	4108.7	4085.5	4093.2	4206.4	4319.7	4481.7	4731.3	5019.4	5094.0	5325.6	5541.7
12.5°	3910.6	3884.9	3946.6	4018.6	4157.6	4304.2	4602.7	4862.5	4975.7	5279.3	5564.9
15°	3787.1	3769.1	3846.3	3877.1	4041.8	4216.7	4427.7	4744.2	4867.6	5222.7	5528.8
17.5°	3717.6	3733.1	3761.4	3828.3	3933.7	4083.0	4314.5	4664.4	4718.4	5153.2	5521.1
20°	3730.5	3748.5	3751.1	3779.4	3851.4	3967.2	4203.9	4579.5	4615.5	5140.4	5541.7
22.5°	3833.4	3807.7	3818.0	3800.0	3820.5	3910.6	4119.0	4466.3	4605.2	5032.3	5498.0
25°	3987.8	3951.7	3946.6	3884.9	3846.3	3872.0	4103.5	4438.0	4528.0	4998.9	5495.4
27.5°	4260.5	4206.4	4206.4	4113.8	3956.9	3915.7	4059.8	4391.7	4471.4	4968.0	5436.2
30°	4522.9	4522.9	4525.5	4394.3	4219.3	4016.1	4077.8	4373.7	4425.1	4875.4	5356.5
32.5°	4841.9	4834.2	4821.3	4757.0	4486.9	4183.3	4165.3	4350.5	4376.3	4844.5	5333.3
35°	5153.2	5132.6	5233.0	5176.4	4901.1	4510.0	4255.3	4360.8	4417.4	4798.2	5261.3
37.5°	5387.3	5400.2	5608.6	5644.6	5407.9	4880.5	4510.0	4463.7	4517.8	4865.1	5261.3
40°	5690.9	5742.4	5937.9	6058.8	5914.8	5369.3	4914.0	4636.1	4674.7	5014.3	5374.5
42.5°	6089.7	6133.4	6383.0	6539.9	6498.8	5991.9	5312.7	4996.3	4965.4	5263.9	5544.3
45°	6617.1	6624.8	6877.0	7093.1	7178.0	6642.8	5945.6	5451.7	5425.9	5693.5	5855.6
47.5°	7244.9	7237.2	7394.1	7625.6	7854.6	7419.8	6673.7	6143.7	6051.1	6308.4	6372.7
50°	7852.0	7818.6	7854.6	8150.5	8590.4	8392.3	7558.7	6990.2	6897.5	7039.0	7149.7
52.5°	8186.5	8227.7	8129.9	8521.0	9372.5	9542.3	8731.9	8001.3	7921.5	7991.0	8183.9
55°	7952.4	8037.3	7973.0	8343.4	9714.7	10944.5	10249.8	9171.9	9069.0	9043.2	9359.7
57.5°	6956.7	7111.1	7124.0	7710.5	9596.4	12030.2	12385.2	10553.4	10399.1	10136.6	10463.4
60°	5341.0	5495.4	5613.7	6308.4	8582.7	12678.5	14860.2	12519.0	12009.6	11330.4	11525.9
62.5°	3743.4	3848.8	3967.2	4394.3	6617.1	12297.8	17000.7	15287.3	14348.2	12588.5	12832.9
65°	2727.1	2809.4	2930.4	3182.5	4064.9	10175.2	17993.8	18575.3	17685.1	14188.7	14157.9
67.5°	2053.1	2104.5	2264.0	2667.9	2817.2	6285.2	16964.7	22048.5	21328.1	15966.5	15223.0
70°	1553.9	1597.7	1746.9	2300.0	2631.9	3370.3	13383.5	22822.9	23028.7	17960.4	15938.2
72.5°	1070.3	1119.1	1286.4	1916.7	2505.9	2673.1	8400.0	20733.8	21513.4	18781.1	15171.5
75°	656.1	689.5	787.3	1453.6	2487.9	2613.9	4623.2	16990.5	17816.3	17353.2	13272.8
77.5°	463.1	460.5	478.5	851.6	2156.0	2629.4	2850.6	12449.5	13252.2	12789.2	9007.2
80°	337.0	339.6	357.6	509.4	1463.9	2673.1	2246.0	8338.3	8577.6	6668.6	3553.0
82.5°	203.2	213.5	257.3	344.7	879.9	2413.2	2076.2	4633.5	4335.1	2140.5	977.6
85°	108.1	108.1	151.8	218.7	468.2	1800.9	1999.0	2204.8	1847.2	663.8	362.8
87.5°	25.7	25.7	43.7	87.5	187.8	861.9	1363.6	877.3	702.4	223.8	149.2
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°	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6
2.5°	5438.8	5407.9	5446.5	5369.3	5307.6	5310.2	5215.0	5209.8	5197.0	5130.1	5153.2
5°	5500.5	5474.8	5431.1	5346.2	5209.8	5073.5	4991.1	4885.7	4841.9	4818.8	4829.1
7.5°	5559.7	5513.4	5387.3	5269.0	5058.0	4800.8	4651.5	4510.0	4329.9	4309.4	4273.3
10°	5575.2	5477.4	5315.3	5063.2	4782.7	4497.2	4157.6	3895.1	3756.2	3648.2	3607.0
12.5°	5552.0	5510.8	5199.5	4875.4	4450.9	4003.2	3607.0	3236.5	2979.2	2845.5	2809.4
15°	5549.4	5477.4	5070.9	4589.8	4046.9	3462.9	2899.5	2454.4	2184.3	2073.6	2073.6
17.5°	5552.0	5379.6	4919.1	4301.6	3571.0	2781.1	2161.1	1795.8	1646.6	1631.1	1644.0
20°	5500.5	5307.6	4759.6	3962.0	2974.1	2089.1	1569.4	1420.2	1420.2	1440.7	1448.5
22.5°	5454.2	5199.5	4507.5	3542.7	2366.9	1512.8	1276.1	1232.3	1281.2	1317.2	1332.7
25°	5389.9	5109.5	4250.2	3107.9	1800.9	1219.5	1108.9	1119.1	1165.5	1229.8	1224.6
27.5°	5297.3	4952.5	3944.0	2603.6	1340.4	1052.3	1024.0	1029.1	1078.0	1106.3	1101.1
30°	5191.8	4793.0	3661.0	2101.9	1062.5	964.8	962.2	975.1	982.8	998.2	995.7
32.5°	5058.0	4582.1	3360.0	1633.7	957.1	915.9	905.6	897.9	905.6	903.0	895.3
35°	4962.8	4468.9	3053.9	1245.2	897.9	872.2	864.4	851.6	841.3	825.9	823.3
37.5°	4937.1	4355.7	2732.3	1016.2	851.6	838.7	813.0	789.8	777.0	769.3	764.1
40°	4921.7	4281.1	2418.4	892.7	813.0	800.1	769.3	738.4	725.5	717.8	720.4
42.5°	4975.7	4239.9	2099.4	831.0	779.5	756.4	722.9	686.9	684.4	679.2	686.9
45°	5166.1	4291.4	1803.5	787.3	746.1	707.5	663.8	645.8	643.2	638.0	643.2
47.5°	5598.3	4420.0	1551.4	759.0	710.1	676.6	630.3	604.6	602.0	599.5	599.5
50°	6195.2	4816.2	1340.4	725.5	686.9	640.6	596.9	568.6	563.4	553.1	553.1
52.5°	7131.7	5482.5	1214.3	707.5	645.8	607.2	560.9	530.0	517.1	506.8	506.8
55°	8186.5	6308.4	1191.2	676.6	602.0	566.0	524.8	494.0	481.1	468.2	463.1
57.5°	9388.0	7401.8	1355.8	656.1	571.2	524.8	478.5	450.2	439.9	427.1	421.9
60°	10507.1	8492.7	1867.8	625.2	542.9	486.3	439.9	411.6	398.8	385.9	385.9
62.5°	11801.2	9843.3	2734.8	625.2	517.1	445.1	398.8	378.2	370.5	357.6	355.0
65°	13332.0	11240.4	3367.7	663.8	509.4	409.1	360.2	339.6	331.9	324.2	321.6
67.5°	14497.5	12043.1	2896.9	766.7	542.9	378.2	321.6	308.7	303.6	295.9	290.7
70°	14620.9	11554.2	1746.9	828.4	576.3	347.3	288.1	275.3	275.3	267.6	262.4
72.5°	13512.1	10252.4	1175.7	738.4	522.3	311.3	254.7	244.4	239.3	234.1	231.5
75°	11307.2	8695.9	928.8	589.2	401.3	257.3	221.3	211.0	203.2	200.7	195.5
77.5°	7594.8	5652.3	686.9	460.5	295.9	208.4	185.2	174.9	167.2	164.7	156.9
80°	2917.5	2153.4	442.5	334.5	208.4	164.7	146.6	136.4	131.2	123.5	118.3
82.5°	859.3	697.2	247.0	205.8	133.8	113.2	105.5	97.8	90.0	82.3	79.8
85°	355.0	319.0	151.8	108.1	82.3	66.9	61.7	54.0	46.3	41.2	36.0
87.5°	164.7	136.4	69.5	41.2	28.3	15.4	7.7	2.6	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)