

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: P480148

Luminaire Tested: **IFLD-S-SA3D-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480148  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

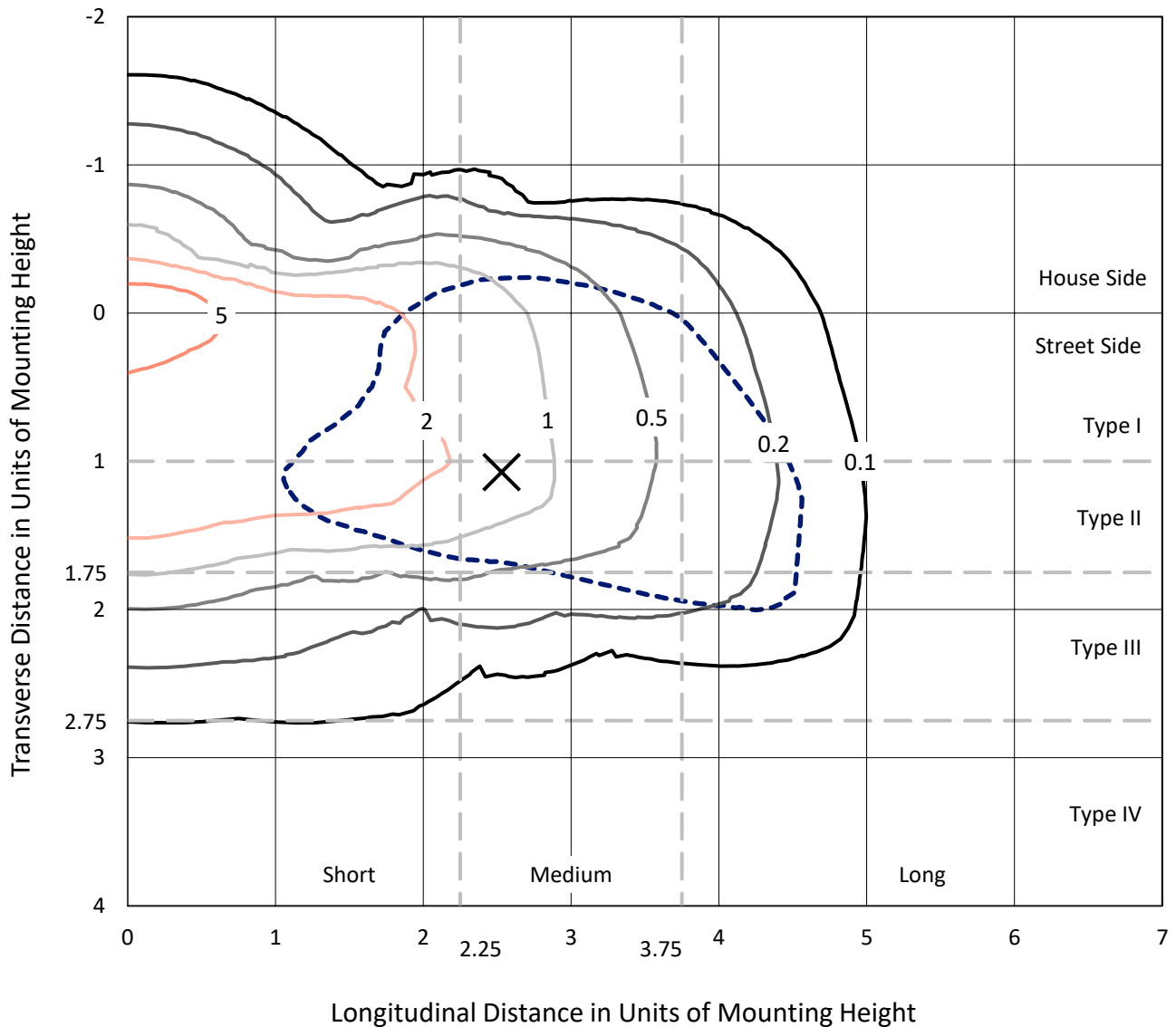
Lumens per Lamp: N/A  
Luminaire Lumens: 23770.6 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

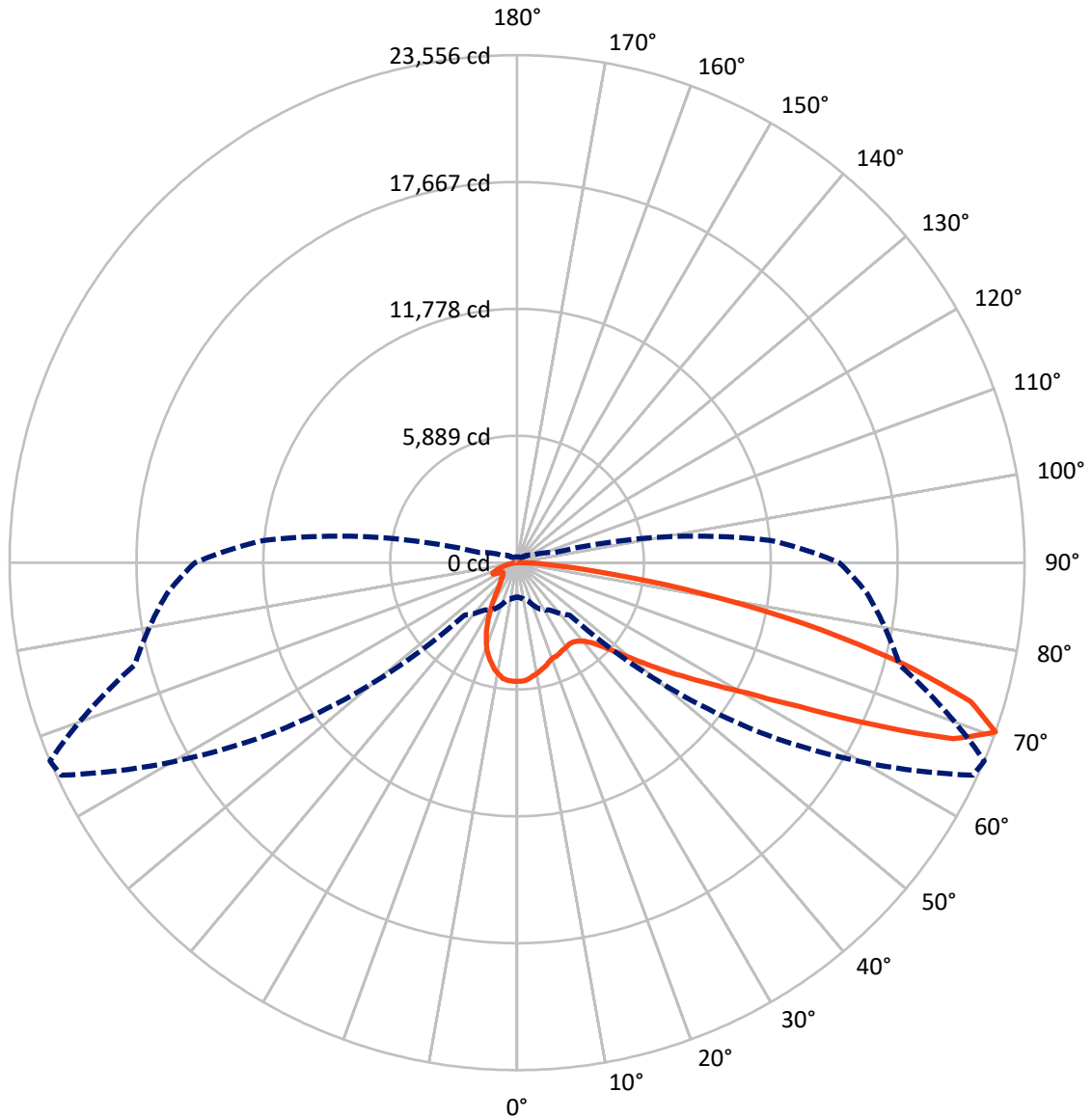
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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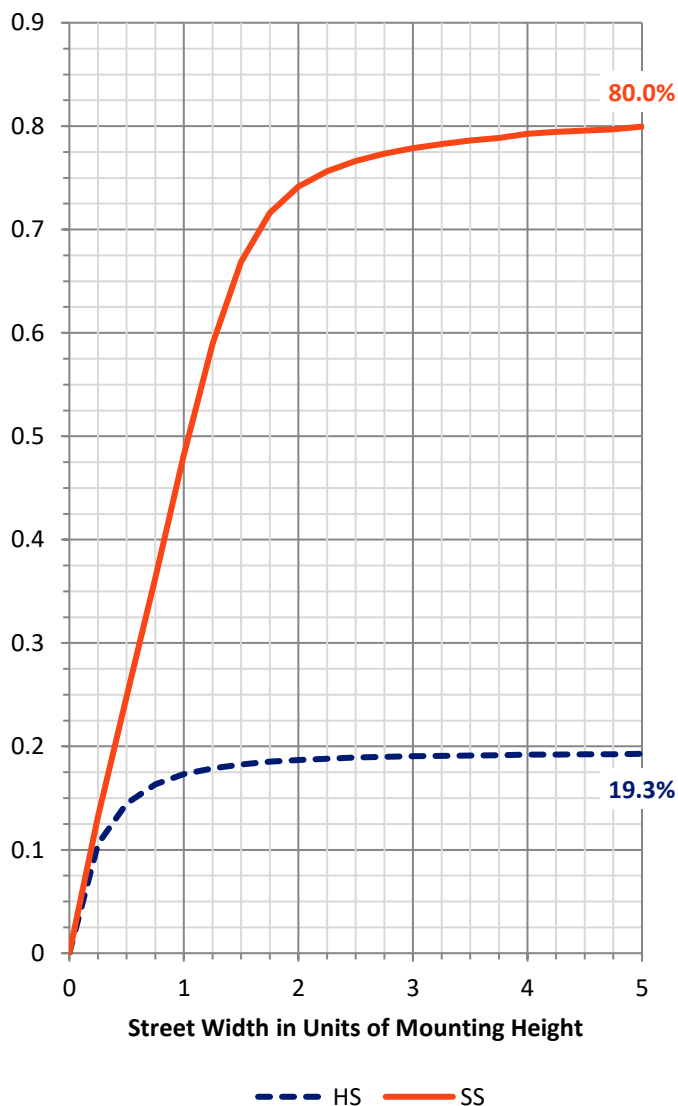
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4629.6	0.0	4629.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	19141.0	0.0	19141.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	23770.6	0.0	23770.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.1	2.0
10°-20°	1149.9	4.8
20°-30°	1552.9	6.5
30°-40°	2077.9	8.7
40°-50°	3055.4	12.9
50°-60°	4762.7	20.0
60°-70°	5866.8	24.7
70°-80°	4145.4	17.4
80°-90°	679.5	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°	23770.6	100.0
0°-180°	23770.6	100.0

**Coefficient of Utilization**



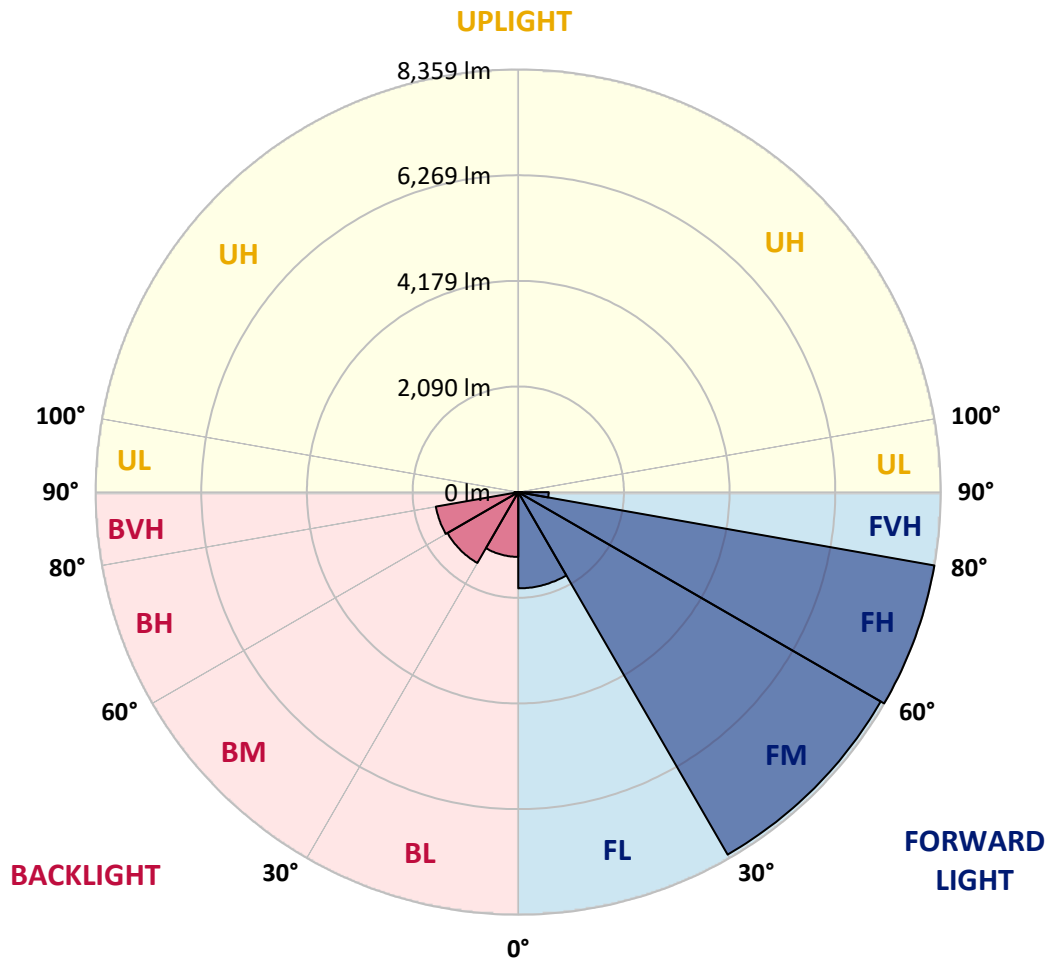
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.7	8.0			
FM (30°-60°)	8278.8	34.8			
FH (60°-80°)	8358.5	35.2			G4/12000
FVH (80°-90°)	601.1	2.5			G4/750
BL (0°-30°)	1280.2	5.4	B3/2500		
BM (30°-60°)	1617.2	6.8	B2/2500		
BH (60°-80°)	1653.7	7.0	B3/2500		G3/2500
BVH (80°-90°)	78.4	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°	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8
2.5°	5123.9	5181.8	5202.8	5234.4	5316.0	5376.5	5413.3	5455.4	5505.4	5547.6	5573.9
5°	4766.0	4797.5	4847.5	4881.7	4984.4	5147.5	5258.1	5437.0	5431.8	5497.6	5597.6
7.5°	4418.6	4450.2	4473.8	4542.3	4689.6	4837.0	5039.6	5329.1	5308.1	5460.7	5616.0
10°	4202.8	4179.1	4187.0	4302.8	4418.6	4584.4	4839.6	5134.4	5210.7	5447.6	5668.6
12.5°	4000.1	3973.8	4037.0	4110.7	4252.8	4402.8	4708.1	4973.9	5089.6	5400.2	5692.3
15°	3873.8	3855.4	3934.3	3965.9	4134.4	4313.3	4529.1	4852.8	4979.1	5342.3	5655.5
17.5°	3802.8	3818.6	3847.5	3915.9	4023.8	4176.5	4413.3	4771.2	4826.5	5271.2	5647.6
20°	3815.9	3834.3	3837.0	3865.9	3939.6	4058.0	4300.1	4684.4	4721.2	5258.1	5668.6
22.5°	3921.2	3894.9	3905.4	3887.0	3908.0	4000.1	4213.3	4568.6	4710.7	5147.5	5623.9
25°	4079.1	4042.2	4037.0	3973.8	3934.3	3960.7	4197.5	4539.6	4631.7	5113.3	5621.2
27.5°	4358.0	4302.8	4302.8	4208.0	4047.5	4005.4	4152.8	4492.3	4573.8	5081.8	5560.7
30°	4626.5	4626.5	4629.1	4494.9	4315.9	4108.0	4171.2	4473.8	4526.5	4987.0	5479.1
32.5°	4952.8	4944.9	4931.7	4866.0	4589.6	4279.1	4260.7	4450.2	4476.5	4955.4	5455.4
35°	5271.2	5250.2	5352.8	5294.9	5013.3	4613.3	4352.8	4460.7	4518.6	4908.1	5381.8
37.5°	5510.7	5523.9	5737.0	5773.9	5531.8	4992.3	4613.3	4565.9	4621.2	4976.5	5381.8
40°	5821.2	5873.9	6073.9	6197.6	6050.2	5492.3	5026.5	4742.3	4781.7	5129.1	5497.6
42.5°	6229.2	6273.9	6529.2	6689.7	6647.6	6129.2	5434.4	5110.7	5079.1	5384.4	5671.2
45°	6768.7	6776.5	7034.4	7255.5	7342.4	6795.0	6081.8	5576.5	5550.2	5823.9	5989.7
47.5°	7410.8	7402.9	7563.4	7800.3	8034.5	7589.7	6826.5	6284.4	6189.7	6452.9	6518.6
50°	8031.9	7997.6	8034.5	8337.1	8787.1	8584.5	7731.8	7150.2	7055.5	7200.2	7313.4
52.5°	8374.0	8416.1	8316.1	8716.1	9587.2	9760.9	8931.9	8184.5	8102.9	8174.0	8371.3
55°	8134.5	8221.3	8155.5	8534.5	9937.2	11195.1	10484.6	9381.9	9276.6	9250.3	9574.0
57.5°	7116.0	7273.9	7287.1	7887.1	9816.1	12305.7	12668.9	10795.1	10637.2	10368.8	10703.0
60°	5463.3	5621.2	5742.3	6452.9	8779.2	12968.9	15200.5	12805.7	12284.6	11589.9	11789.9
62.5°	3829.1	3937.0	4058.0	4494.9	6768.7	12579.4	17390.1	15637.4	14676.8	12876.8	13126.8
65°	2789.6	2873.8	2997.5	3255.4	4158.0	10408.2	18405.9	19000.6	18090.1	14513.6	14482.1
67.5°	2100.1	2152.7	2315.9	2729.0	2881.7	6429.2	17353.2	22553.4	21816.5	16332.1	15571.6
70°	1589.5	1634.3	1786.9	2352.7	2692.2	3447.5	13689.9	23345.5	23556.1	18371.7	16303.2
72.5°	1094.8	1144.8	1315.8	1960.6	2563.2	2734.3	8592.4	21208.6	22006.0	19211.2	15518.9
75°	671.1	705.3	805.3	1486.9	2544.8	2673.8	4729.1	17379.5	18224.3	17750.6	13576.8
77.5°	473.7	471.1	489.5	871.1	2205.3	2689.6	2915.9	12734.6	13555.7	13082.0	9213.5
80°	344.7	347.4	365.8	521.1	1497.4	2734.3	2297.4	8529.2	8774.0	6821.3	3634.3
82.5°	207.9	218.4	263.2	352.6	900.0	2468.5	2123.8	4739.6	4434.4	2189.5	1000.0
85°	110.5	110.5	155.3	223.7	479.0	1842.2	2044.8	2255.3	1889.5	679.0	371.1
87.5°	26.3	26.3	44.7	89.5	192.1	881.6	1394.8	897.4	718.4	229.0	152.6
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°	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8	5502.8
2.5°	5563.3	5531.8	5571.2	5492.3	5429.1	5431.8	5334.4	5329.1	5316.0	5247.5	5271.2
5°	5626.5	5600.2	5555.5	5468.6	5329.1	5189.6	5105.4	4997.5	4952.8	4929.1	4939.6
7.5°	5687.0	5639.7	5510.7	5389.7	5173.9	4910.7	4758.1	4613.3	4429.1	4408.0	4371.2
10°	5702.8	5602.8	5437.0	5179.1	4892.3	4600.2	4252.8	3984.3	3842.2	3731.7	3689.6
12.5°	5679.1	5637.0	5318.6	4987.0	4552.8	4094.9	3689.6	3310.6	3047.5	2910.6	2873.8
15°	5676.5	5602.8	5187.0	4694.9	4139.6	3542.2	2965.9	2510.6	2234.3	2121.1	2121.1
17.5°	5679.1	5502.8	5031.7	4400.1	3652.8	2844.8	2210.6	1836.9	1684.3	1668.5	1681.6
20°	5626.5	5429.1	4868.6	4052.8	3042.2	2136.9	1605.3	1452.7	1452.7	1473.7	1481.6
22.5°	5579.1	5318.6	4610.7	3623.8	2421.1	1547.4	1305.3	1260.6	1310.6	1347.4	1363.2
25°	5513.3	5226.5	4347.5	3179.1	1842.2	1247.4	1134.2	1144.8	1192.1	1257.9	1252.7
27.5°	5418.6	5066.0	4034.3	2663.2	1371.1	1076.4	1047.4	1052.7	1102.7	1131.6	1126.4
30°	5310.7	4902.8	3744.9	2150.1	1086.9	986.9	984.2	997.4	1005.3	1021.1	1018.5
32.5°	5173.9	4687.0	3437.0	1671.1	979.0	936.9	926.3	918.5	926.3	923.7	915.8
35°	5076.5	4571.2	3123.8	1273.7	918.5	892.1	884.2	871.1	860.6	844.8	842.1
37.5°	5050.2	4455.4	2794.8	1039.5	871.1	857.9	831.6	807.9	794.8	786.9	781.6
40°	5034.4	4379.1	2473.8	913.2	831.6	818.4	786.9	755.3	742.1	734.2	736.9
42.5°	5089.6	4337.0	2147.4	850.0	797.4	773.7	739.5	702.7	700.0	694.8	702.7
45°	5284.4	4389.6	1844.8	805.3	763.2	723.7	679.0	660.5	657.9	652.7	657.9
47.5°	5726.5	4521.2	1586.9	776.3	726.3	692.1	644.8	618.4	615.8	613.2	613.2
50°	6337.1	4926.5	1371.1	742.1	702.7	655.3	610.5	581.6	576.3	565.8	565.8
52.5°	7295.0	5608.1	1242.1	723.7	660.5	621.1	573.7	542.1	529.0	518.4	518.4
55°	8374.0	6452.9	1218.5	692.1	615.8	579.0	536.9	505.3	492.1	479.0	473.7
57.5°	9603.0	7571.3	1386.9	671.1	584.2	536.9	489.5	460.5	450.0	436.9	431.6
60°	10747.7	8687.1	1910.6	639.5	555.3	497.4	450.0	421.1	407.9	394.8	394.8
62.5°	12071.5	10068.8	2797.5	639.5	529.0	455.3	407.9	386.9	379.0	365.8	363.2
65°	13637.3	11497.8	3444.9	679.0	521.1	418.4	368.4	347.4	339.5	331.6	329.0
67.5°	14829.4	12318.8	2963.3	784.2	555.3	386.9	329.0	315.8	310.5	302.6	297.4
70°	14955.8	11818.8	1786.9	847.4	589.5	355.3	294.7	281.6	281.6	273.7	268.4
72.5°	13821.5	10487.2	1202.7	755.3	534.2	318.4	260.5	250.0	244.7	239.5	236.9
75°	11566.2	8895.0	950.0	602.7	410.5	263.2	226.3	215.8	207.9	205.3	200.0
77.5°	7768.7	5781.8	702.7	471.1	302.6	213.2	189.5	179.0	171.1	168.4	160.5
80°	2984.3	2202.7	452.6	342.1	213.2	168.4	150.0	139.5	134.2	126.3	121.1
82.5°	879.0	713.2	252.6	210.5	136.8	115.8	107.9	100.0	92.1	84.2	81.6
85°	363.2	326.3	155.3	110.5	84.2	68.4	63.2	55.3	47.4	42.1	36.8
87.5°	168.4	139.5	71.1	42.1	28.9	15.8	7.9	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)