

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: P480147

Luminaire Tested: **IFLD-S-SA3C-750-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480147
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

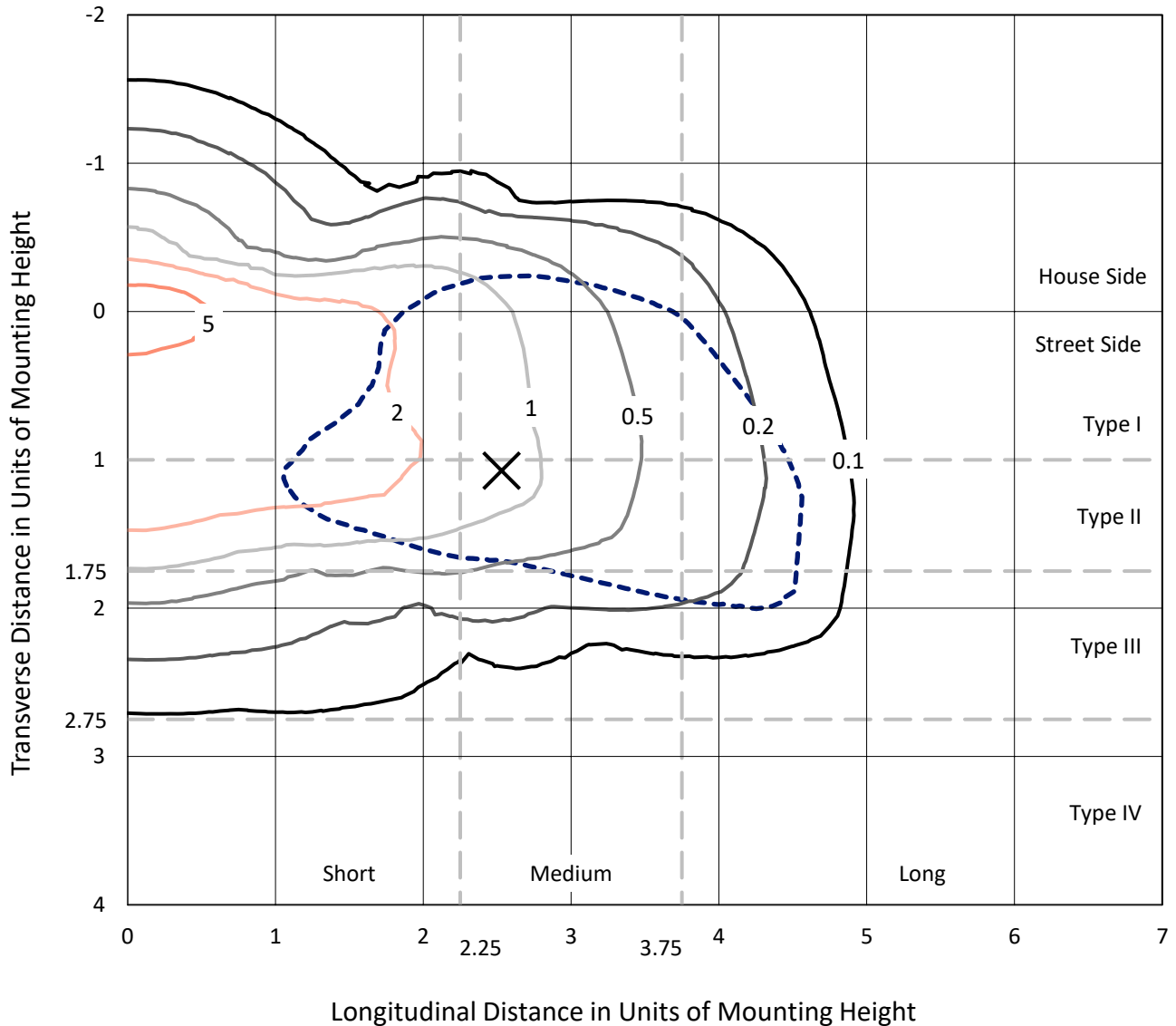
Lumens per Lamp: N/A
Luminaire Lumens: 21603.3 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8
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

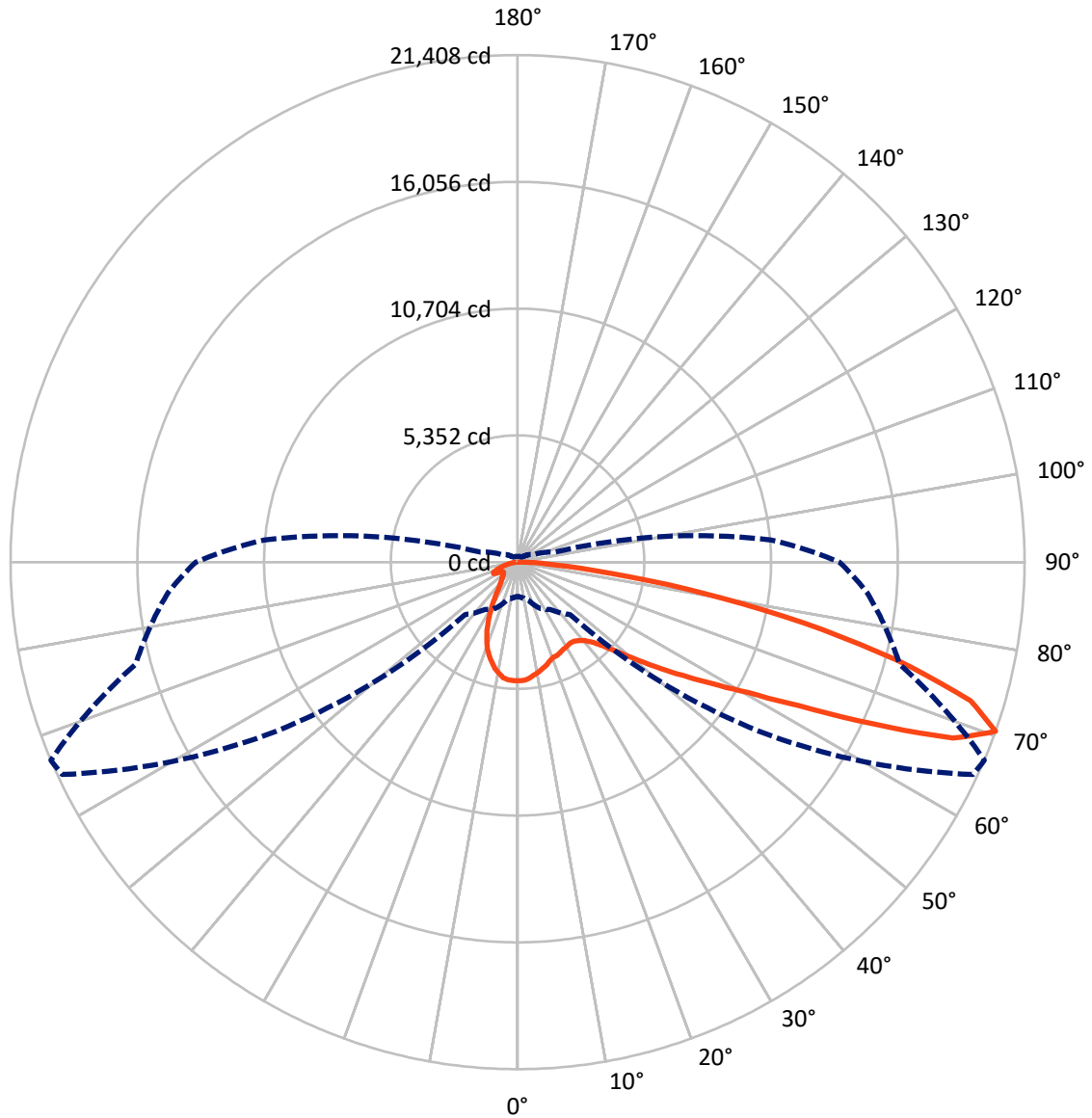
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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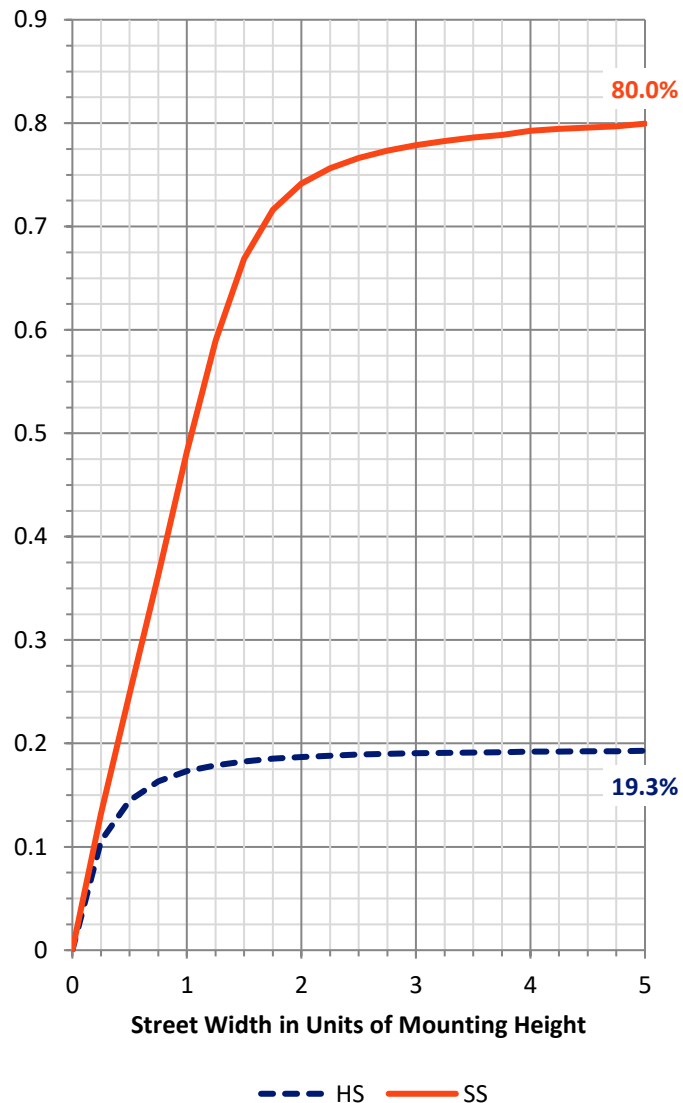
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4207.5	0.0	4207.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17395.8	0.0	17395.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	21603.3	0.0	21603.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.4	2.0
10°-20°	1045.1	4.8
20°-30°	1411.3	6.5
30°-40°	1888.4	8.7
40°-50°	2776.9	12.9
50°-60°	4328.4	20.0
60°-70°	5331.9	24.7
70°-80°	3767.5	17.4
80°-90°	617.5	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°	21603.3	100.0
0°-180°	21603.3	100.0

Coefficient of Utilization

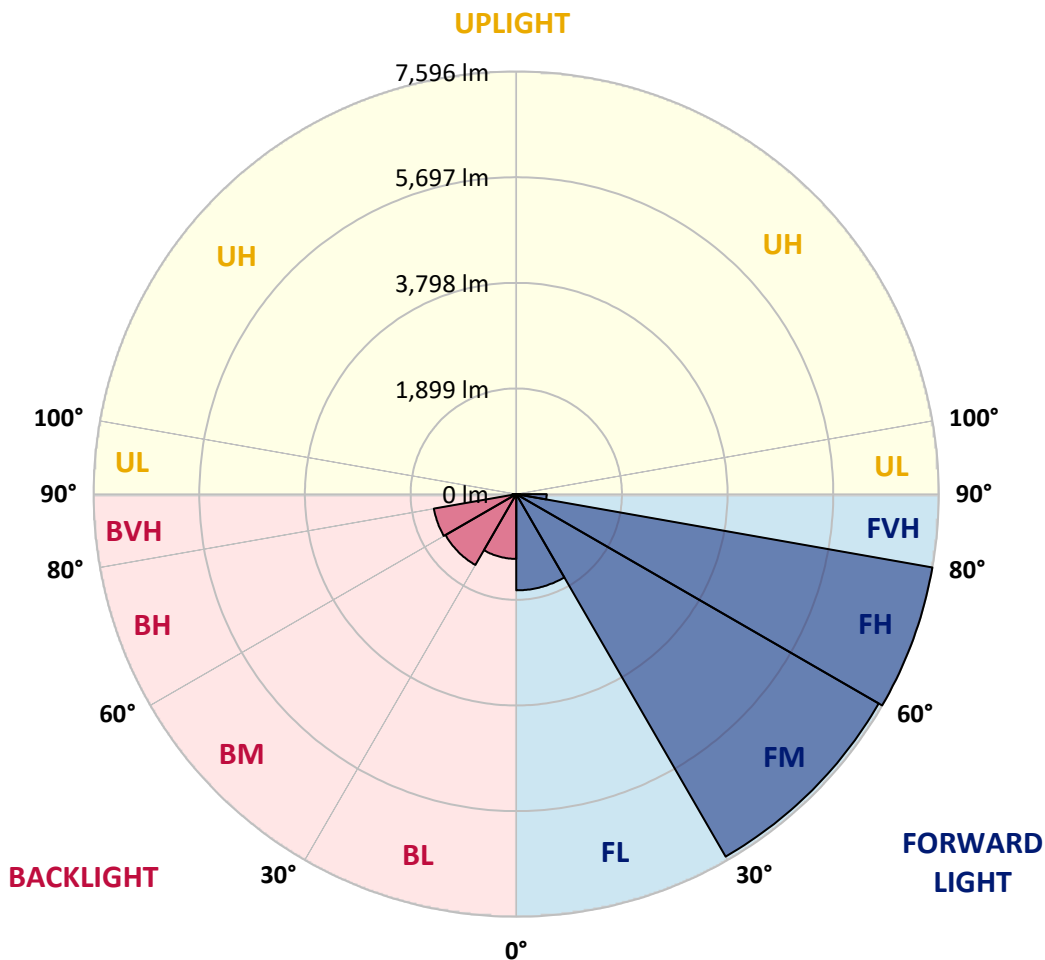


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1729.2	8.0			
FM (30°-60°)	7524.0	34.8			
FH (60°-80°)	7596.4	35.2			G4/12000
FVH (80°-90°)	546.3	2.5			G4/750
BL (0°-30°)	1163.5	5.4	B3/2500		
BM (30°-60°)	1469.8	6.8	B2/2500		
BH (60°-80°)	1503.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	71.2	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°	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1
2.5°	4656.7	4709.3	4728.4	4757.1	4831.3	4886.3	4919.8	4958.0	5003.5	5041.8	5065.7
5°	4331.4	4360.1	4405.6	4436.6	4529.9	4678.2	4778.7	4941.3	4936.5	4996.3	5087.2
7.5°	4015.7	4044.4	4065.9	4128.1	4262.1	4396.0	4580.2	4843.2	4824.1	4962.8	5103.9
10°	3819.6	3798.1	3805.2	3910.5	4015.7	4166.4	4398.4	4666.3	4735.6	4950.9	5151.8
12.5°	3635.4	3611.5	3668.9	3735.9	3865.0	4001.4	4278.8	4520.4	4625.6	4907.8	5173.3
15°	3520.6	3503.9	3575.6	3604.3	3757.4	3920.0	4116.2	4410.3	4525.1	4855.2	5139.8
17.5°	3456.0	3470.4	3496.7	3558.9	3656.9	3795.7	4010.9	4336.2	4386.4	4790.6	5132.6
20°	3468.0	3484.7	3487.1	3513.4	3580.4	3688.0	3908.1	4257.3	4290.8	4778.7	5151.8
22.5°	3563.7	3539.8	3549.3	3532.6	3551.7	3635.4	3829.2	4152.0	4281.2	4678.2	5111.1
25°	3707.2	3673.7	3668.9	3611.5	3575.6	3599.5	3814.8	4125.7	4209.4	4647.1	5108.7
27.5°	3960.7	3910.5	3910.5	3824.4	3678.5	3640.2	3774.1	4082.7	4156.8	4618.4	5053.7
30°	4204.7	4204.7	4207.0	4085.1	3922.4	3733.5	3790.9	4065.9	4113.8	4532.3	4979.6
32.5°	4501.2	4494.0	4482.1	4422.3	4171.2	3888.9	3872.2	4044.4	4068.3	4503.6	4958.0
35°	4790.6	4771.5	4864.8	4812.1	4556.2	4192.7	3955.9	4054.0	4106.6	4460.6	4891.1
37.5°	5008.3	5020.2	5214.0	5247.4	5027.4	4537.1	4192.7	4149.6	4199.9	4522.8	4891.1
40°	5290.5	5338.3	5520.1	5632.5	5498.6	4991.5	4568.2	4309.9	4345.8	4661.5	4996.3
42.5°	5661.2	5701.9	5933.9	6079.8	6041.5	5570.3	4938.9	4644.7	4616.0	4893.5	5154.2
45°	6151.5	6158.7	6393.1	6594.0	6672.9	6175.4	5527.3	5068.1	5044.1	5292.9	5443.6
47.5°	6735.1	6727.9	6873.8	7089.1	7301.9	6897.7	6204.1	5711.4	5625.3	5864.5	5924.3
50°	7299.5	7268.4	7301.9	7577.0	7986.0	7801.8	7026.9	6498.3	6412.2	6543.8	6646.6
52.5°	7610.5	7648.7	7557.8	7921.4	8713.1	8870.9	8117.5	7438.3	7364.1	7428.7	7608.1
55°	7392.8	7471.7	7412.0	7756.4	9031.2	10174.4	9528.6	8526.5	8430.8	8406.9	8701.1
57.5°	6467.2	6610.7	6622.7	7168.0	8921.1	11183.7	11513.8	9810.9	9667.3	9423.4	9727.1
60°	4965.2	5108.7	5218.7	5864.5	7978.8	11786.4	13814.6	11638.1	11164.6	10533.2	10714.9
62.5°	3480.0	3578.0	3688.0	4085.1	6151.5	11432.4	15804.5	14211.6	13338.6	11702.7	11929.9
65°	2535.2	2611.8	2724.2	2958.6	3778.9	9459.3	16727.7	17268.2	16440.7	13190.4	13161.7
67.5°	1908.6	1956.4	2104.7	2480.2	2618.9	5843.0	15771.0	20497.1	19827.4	14843.0	14151.8
70°	1444.6	1485.3	1624.0	2138.2	2446.7	3133.2	12441.7	21217.0	21408.3	16696.6	14816.7
72.5°	995.0	1040.4	1195.9	1781.8	2329.5	2485.0	7809.0	19274.9	19999.6	17459.6	14104.0
75°	609.9	641.0	731.9	1351.3	2312.8	2430.0	4297.9	15794.9	16562.7	16132.2	12338.9
77.5°	430.5	428.1	444.9	791.7	2004.3	2444.3	2650.0	11573.6	12319.8	11889.3	8373.4
80°	313.3	315.7	332.4	473.6	1360.9	2485.0	2088.0	7751.6	7974.0	6199.3	3303.0
82.5°	188.9	198.5	239.2	320.5	818.0	2243.4	1930.1	4307.5	4030.1	1989.9	908.9
85°	100.5	100.5	141.1	203.3	435.3	1674.2	1858.4	2049.7	1717.3	617.1	337.2
87.5°	23.9	23.9	40.7	81.3	174.6	801.2	1267.6	815.6	652.9	208.1	138.7
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°	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1	5001.1
2.5°	5056.1	5027.4	5063.3	4991.5	4934.1	4936.5	4848.0	4843.2	4831.3	4769.1	4790.6
5°	5113.5	5089.6	5048.9	4970.0	4843.2	4716.5	4639.9	4541.9	4501.2	4479.7	4489.3
7.5°	5168.5	5125.5	5008.3	4898.3	4702.1	4463.0	4324.2	4192.7	4025.3	4006.1	3972.7
10°	5182.9	5092.0	4941.3	4706.9	4446.2	4180.7	3865.0	3621.1	3491.9	3391.5	3353.2
12.5°	5161.3	5123.1	4833.7	4532.3	4137.7	3721.5	3353.2	3008.8	2769.6	2645.2	2611.8
15°	5158.9	5092.0	4714.1	4266.8	3762.2	3219.3	2695.5	2281.7	2030.6	1927.7	1927.7
17.5°	5161.3	5001.1	4573.0	3999.0	3319.7	2585.5	2009.0	1669.4	1530.7	1516.4	1528.3
20°	5113.5	4934.1	4424.7	3683.3	2764.8	1942.1	1459.0	1320.2	1320.2	1339.4	1346.5
22.5°	5070.5	4833.7	4190.3	3293.4	2200.4	1406.3	1186.3	1145.6	1191.1	1224.6	1238.9
25°	5010.7	4750.0	3951.1	2889.2	1674.2	1133.7	1030.8	1040.4	1083.5	1143.2	1138.5
27.5°	4924.6	4604.1	3666.5	2420.4	1246.1	978.2	951.9	956.7	1002.1	1028.4	1023.7
30°	4826.5	4455.8	3403.4	1954.0	987.8	896.9	894.5	906.5	913.6	928.0	925.6
32.5°	4702.1	4259.7	3123.6	1518.7	889.7	851.5	841.9	834.7	841.9	839.5	832.3
35°	4613.6	4154.4	2839.0	1157.6	834.7	810.8	803.6	791.7	782.1	767.7	765.4
37.5°	4589.7	4049.2	2540.0	944.7	791.7	779.7	755.8	734.3	722.3	715.1	710.3
40°	4575.4	3979.8	2248.2	829.9	755.8	743.8	715.1	686.4	674.5	667.3	669.7
42.5°	4625.6	3941.6	1951.6	772.5	724.7	703.2	672.1	638.6	636.2	631.4	638.6
45°	4802.6	3989.4	1676.6	731.9	693.6	657.7	617.1	600.3	597.9	593.1	597.9
47.5°	5204.4	4109.0	1442.2	705.6	660.1	629.0	586.0	562.1	559.7	557.3	557.3
50°	5759.3	4477.3	1246.1	674.5	638.6	595.5	554.9	528.6	523.8	514.2	514.2
52.5°	6629.9	5096.8	1128.9	657.7	600.3	564.4	521.4	492.7	480.7	471.2	471.2
55°	7610.5	5864.5	1107.4	629.0	559.7	526.2	487.9	459.2	447.3	435.3	430.5
57.5°	8727.4	6881.0	1260.4	609.9	531.0	487.9	444.9	418.6	409.0	397.0	392.2
60°	9767.8	7895.1	1736.4	581.2	504.7	452.0	409.0	382.7	370.7	358.8	358.8
62.5°	10970.8	9150.7	2542.4	581.2	480.7	413.8	370.7	351.6	344.4	332.4	330.1
65°	12393.9	10449.4	3130.8	617.1	473.6	380.3	334.8	315.7	308.5	301.4	299.0
67.5°	13477.4	11195.7	2693.1	712.7	504.7	351.6	299.0	287.0	282.2	275.0	270.3
70°	13592.2	10741.2	1624.0	770.1	535.7	322.9	267.9	255.9	255.9	248.7	244.0
72.5°	12561.3	9531.0	1093.0	686.4	485.5	289.4	236.8	227.2	222.4	217.6	215.3
75°	10511.6	8084.0	863.4	547.7	373.1	239.2	205.7	196.1	188.9	186.6	181.8
77.5°	7060.4	5254.6	638.6	428.1	275.0	193.7	172.2	162.6	155.5	153.1	145.9
80°	2712.2	2001.9	411.4	310.9	193.7	153.1	136.3	126.8	122.0	114.8	110.0
82.5°	798.8	648.2	229.6	191.3	124.4	105.2	98.1	90.9	83.7	76.5	74.1
85°	330.1	296.6	141.1	100.5	76.5	62.2	57.4	50.2	43.1	38.3	33.5
87.5°	153.1	126.8	64.6	38.3	26.3	14.4	7.2	2.4	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)