

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: P480248

Luminaire Tested: **IFLD-L-SA7A-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480248
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

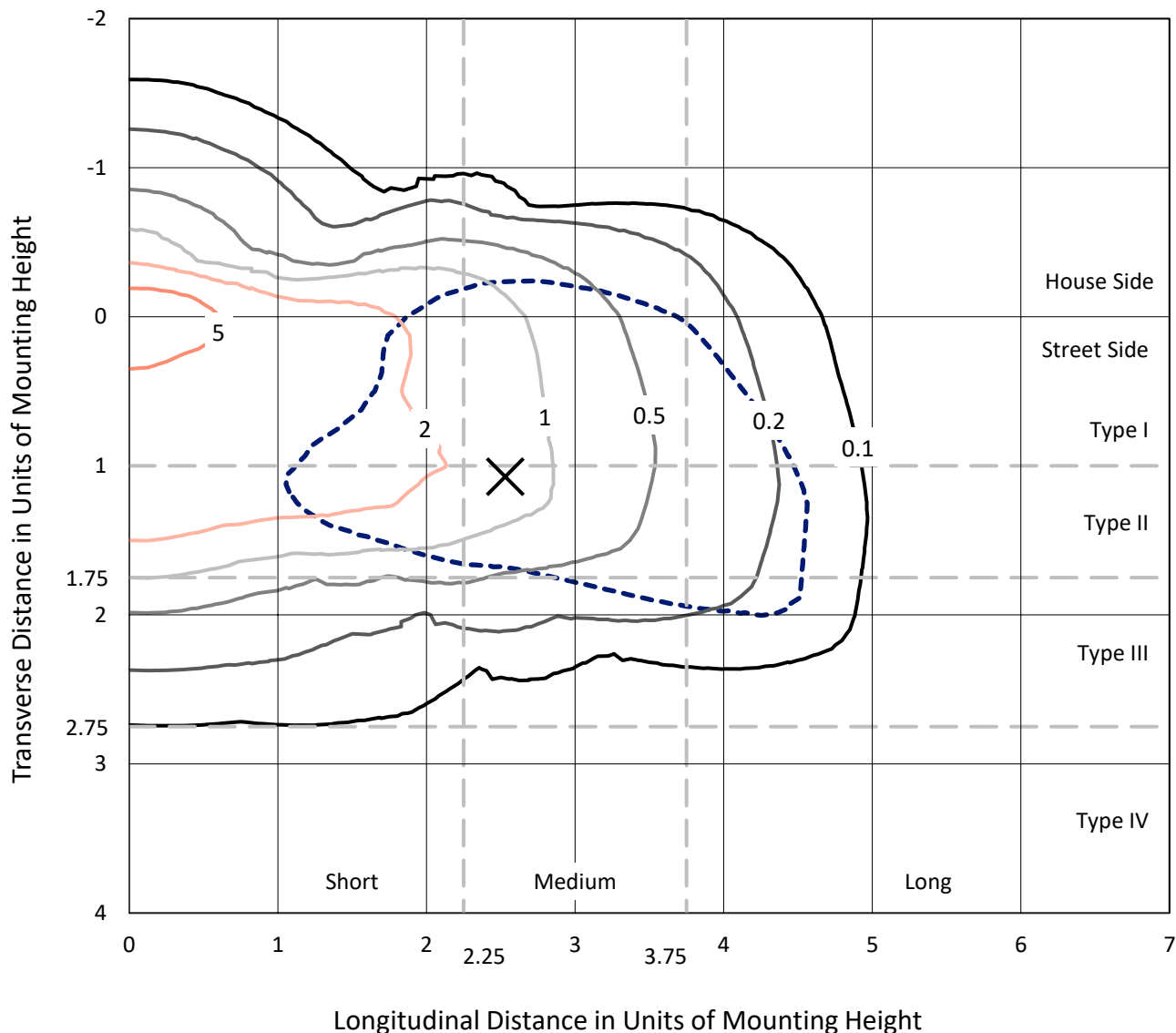
Lumens per Lamp: N/A
Luminaire Lumens: 22941.3 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

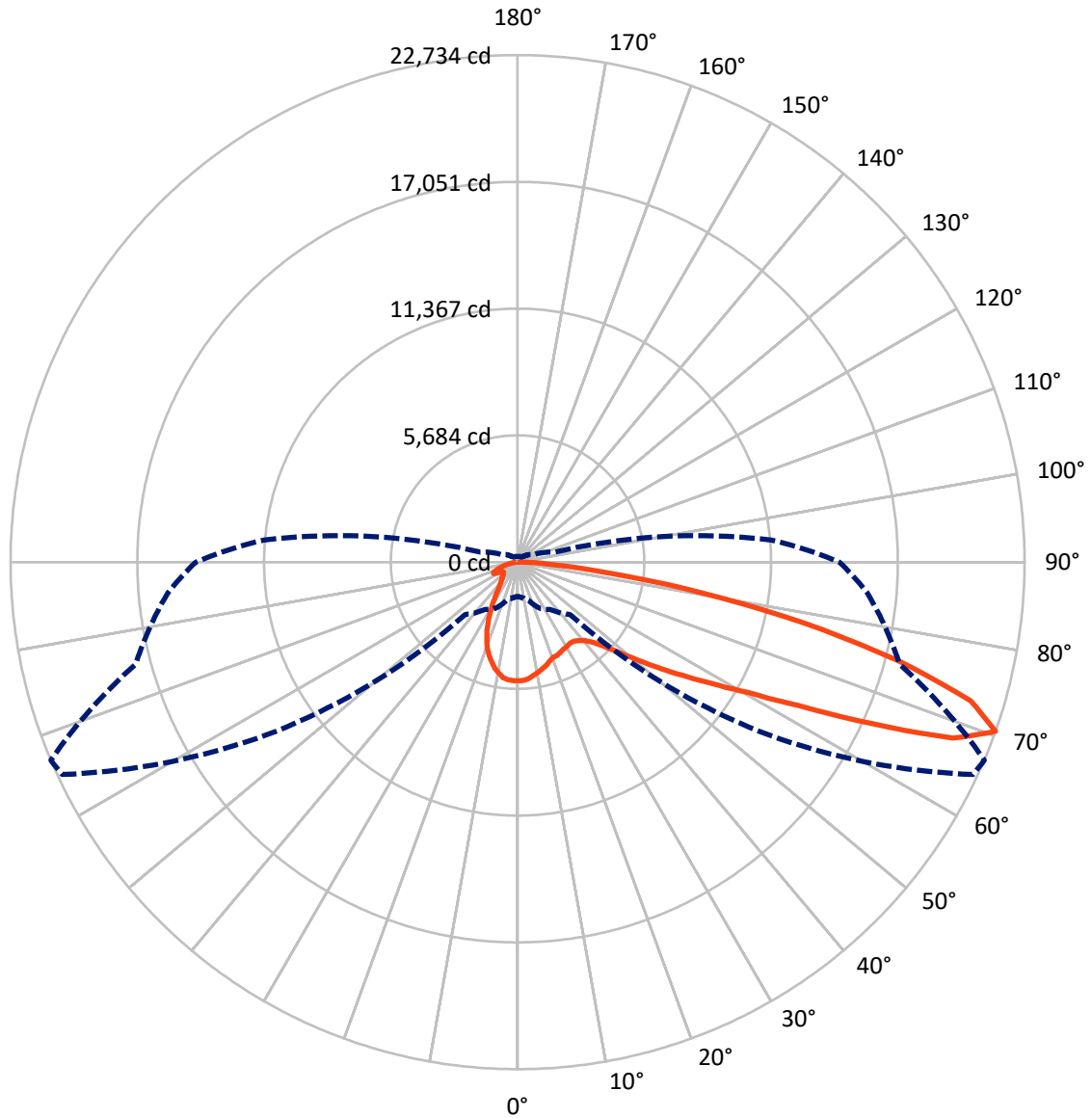
× Max cd
 - - - 1/2 Max cd



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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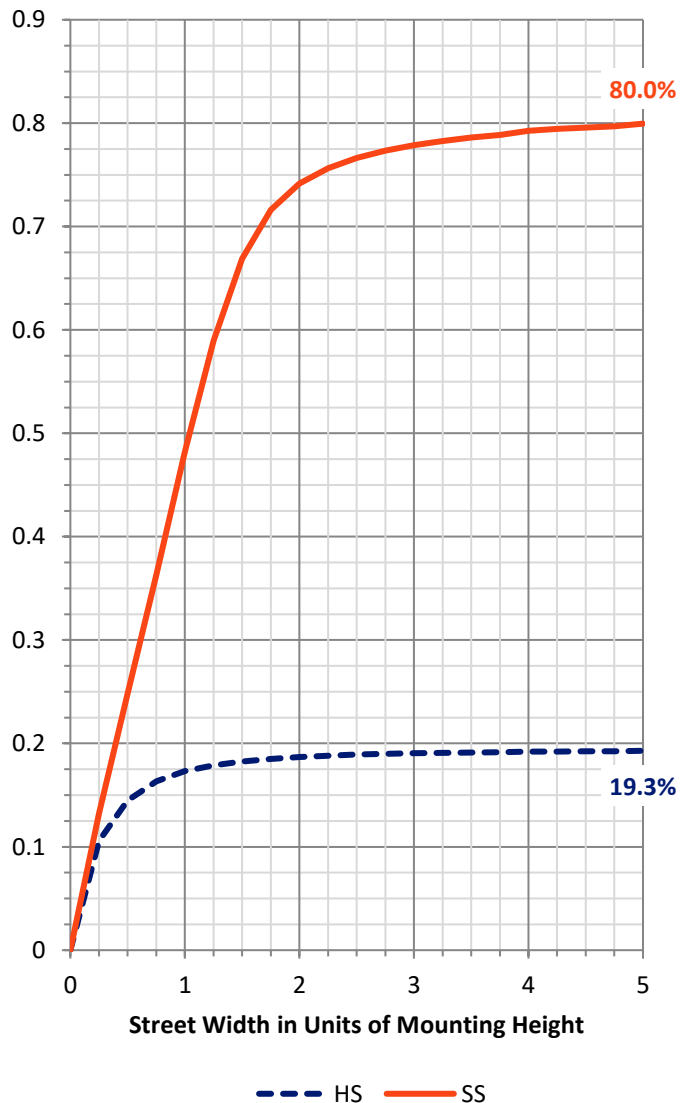
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4468.0	0.0	4468.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18473.3	0.0	18473.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	22941.3	0.0	22941.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	2.0
10°-20°	1109.8	4.8
20°-30°	1498.7	6.5
30°-40°	2005.4	8.7
40°-50°	2948.9	12.9
50°-60°	4596.5	20.0
60°-70°	5662.2	24.7
70°-80°	4000.8	17.4
80°-90°	655.8	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°	22941.3	100.0
0°-180°	22941.3	100.0

Coefficient of Utilization



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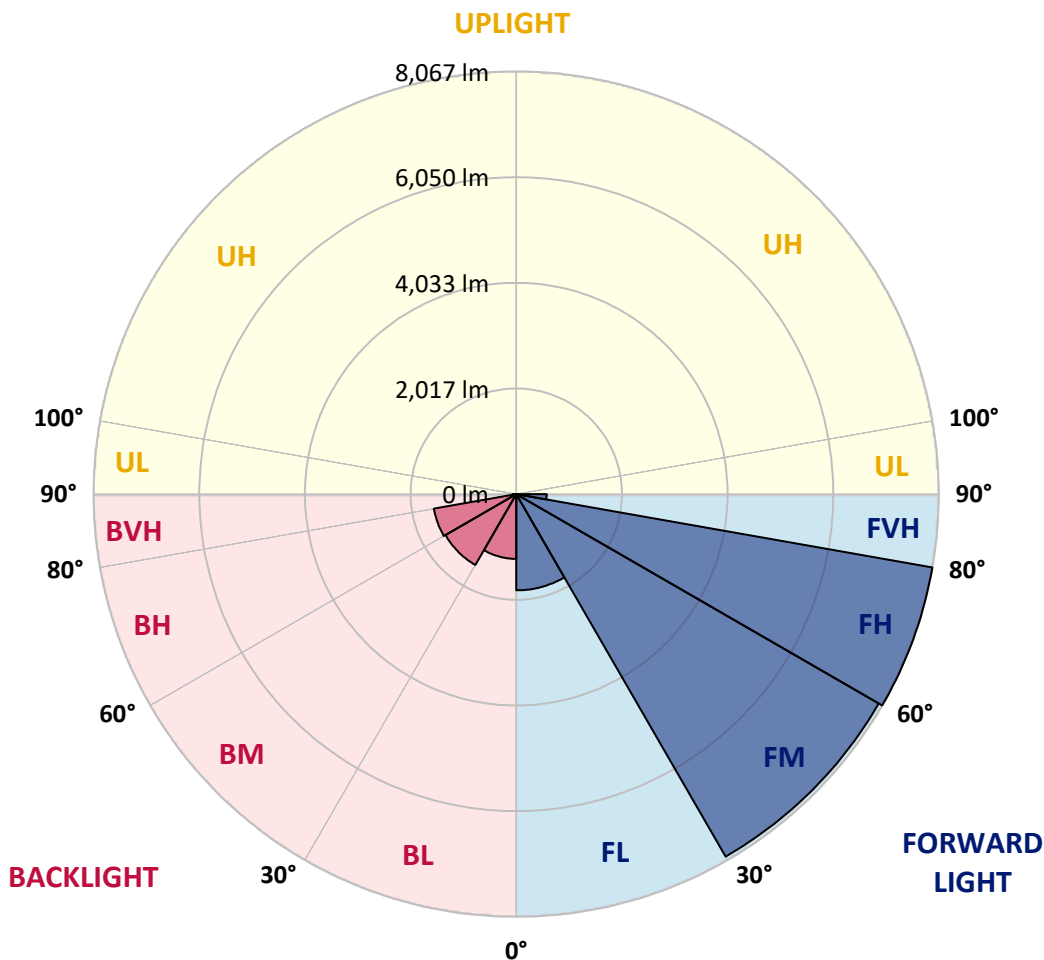
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1836.3	8.0			
FM	(30°-60°)	7990.0	34.8			
FH	(60°-80°)	8066.9	35.2			G4/12000
FVH	(80°-90°)	580.1	2.5			G4/750
BL	(0°-30°)	1235.6	5.4	B3/2500		
BM	(30°-60°)	1560.8	6.8	B2/2500		
BH	(60°-80°)	1596.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	75.6	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°	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8
2.5°	4945.1	5001.0	5021.3	5051.8	5130.5	5188.9	5224.5	5265.1	5313.4	5354.0	5379.4
5°	4599.7	4630.2	4678.4	4711.4	4810.5	4968.0	5074.6	5247.3	5242.3	5305.8	5402.3
7.5°	4264.4	4294.9	4317.8	4383.8	4526.0	4668.3	4863.8	5143.2	5122.9	5270.2	5420.1
10°	4056.2	4033.3	4040.9	4152.7	4264.4	4424.4	4670.8	4955.3	5028.9	5257.5	5470.9
12.5°	3860.6	3835.2	3896.1	3967.3	4104.4	4249.2	4543.8	4800.3	4912.1	5211.8	5493.7
15°	3738.7	3720.9	3797.1	3827.6	3990.1	4162.8	4371.1	4683.5	4805.4	5155.9	5458.2
17.5°	3670.1	3685.3	3713.3	3779.3	3883.4	4030.8	4259.3	4604.8	4658.1	5087.3	5450.5
20°	3682.8	3700.6	3703.1	3731.1	3802.2	3916.5	4150.1	4520.9	4556.5	5074.6	5470.9
22.5°	3784.4	3759.0	3769.1	3751.4	3771.7	3860.6	4066.3	4409.2	4546.3	4968.0	5427.7
25°	3936.8	3901.2	3896.1	3835.2	3797.1	3822.5	4051.1	4381.3	4470.1	4934.9	5425.1
27.5°	4206.0	4152.7	4152.7	4061.2	3906.3	3865.7	4007.9	4335.5	4414.3	4904.5	5366.7
30°	4465.1	4465.1	4467.6	4338.1	4165.4	3964.7	4025.7	4317.8	4368.6	4813.0	5288.0
32.5°	4780.0	4772.4	4759.7	4696.2	4429.5	4129.8	4112.0	4294.9	4320.3	4782.6	5265.1
35°	5087.3	5067.0	5166.1	5110.2	4838.4	4452.4	4200.9	4305.1	4360.9	4736.8	5194.0
37.5°	5318.5	5331.2	5536.9	5572.4	5338.8	4818.1	4452.4	4406.7	4460.0	4802.9	5194.0
40°	5618.2	5669.0	5862.0	5981.4	5839.1	5300.7	4851.1	4576.8	4614.9	4950.2	5305.8
42.5°	6011.8	6055.0	6301.4	6456.3	6415.7	5915.3	5244.8	4932.4	4901.9	5196.5	5473.4
45°	6532.5	6540.1	6789.0	7002.4	7086.2	6557.9	5869.6	5382.0	5356.6	5620.7	5780.7
47.5°	7152.2	7144.6	7299.6	7528.1	7754.2	7324.9	6588.4	6065.2	5973.7	6227.7	6291.2
50°	7751.6	7718.6	7754.2	8046.3	8480.6	8285.0	7462.1	6900.8	6809.4	6949.1	7058.3
52.5°	8081.8	8122.5	8026.0	8412.0	9252.7	9420.3	8620.3	7899.0	7820.2	7888.8	8079.3
55°	7850.7	7934.5	7871.0	8236.8	9590.5	10804.6	10118.8	9054.6	8953.0	8927.6	9240.0
57.5°	6867.8	7020.2	7032.9	7612.0	9473.7	11876.4	12226.9	10418.5	10266.1	10007.0	10329.6
60°	5272.7	5425.1	5542.0	6227.7	8473.0	12516.4	14670.2	12358.9	11856.1	11185.5	11378.6
62.5°	3695.5	3799.6	3916.5	4338.1	6532.5	12140.5	16783.4	15091.8	14164.8	12427.5	12668.8
65°	2692.2	2773.5	2892.9	3141.8	4013.0	10045.1	17763.8	18337.8	17459.0	14007.3	13976.8
67.5°	2026.8	2077.6	2235.1	2633.8	2781.1	6204.9	16747.8	21766.6	21055.4	15762.4	15028.3
70°	1534.1	1577.3	1724.6	2270.6	2598.3	3327.2	13212.3	22531.1	22734.3	17730.7	15734.4
72.5°	1056.6	1104.8	1269.9	1892.2	2473.8	2638.9	8292.6	20468.7	21238.3	18541.0	14977.5
75°	647.7	680.7	777.2	1435.0	2456.0	2580.5	4564.1	16773.2	17588.5	17131.3	13103.1
77.5°	457.2	454.6	472.4	840.7	2128.4	2595.7	2814.2	12290.4	13082.8	12625.6	8892.0
80°	332.7	335.3	353.0	502.9	1445.2	2638.9	2217.3	8231.7	8467.9	6583.3	3507.5
82.5°	200.6	210.8	254.0	340.3	868.6	2382.4	2049.7	4574.3	4279.7	2113.2	965.1
85°	106.7	106.7	149.9	215.9	462.3	1777.9	1973.5	2176.7	1823.6	655.3	358.1
87.5°	25.4	25.4	43.2	86.4	185.4	850.9	1346.1	866.1	693.4	221.0	147.3
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°	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8	5310.8
2.5°	5369.3	5338.8	5376.9	5300.7	5239.7	5242.3	5148.3	5143.2	5130.5	5064.5	5087.3
5°	5430.2	5404.8	5361.6	5277.8	5143.2	5008.6	4927.3	4823.2	4780.0	4757.2	4767.3
7.5°	5488.6	5442.9	5318.5	5201.6	4993.4	4739.4	4592.1	4452.4	4274.6	4254.3	4218.7
10°	5503.9	5407.4	5247.3	4998.4	4721.6	4439.7	4104.4	3845.3	3708.2	3601.5	3560.9
12.5°	5481.0	5440.4	5133.1	4813.0	4394.0	3952.0	3560.9	3195.1	2941.2	2809.1	2773.5
15°	5478.5	5407.4	5006.1	4531.1	3995.2	3418.6	2862.4	2423.0	2156.3	2047.1	2047.1
17.5°	5481.0	5310.8	4856.2	4246.6	3525.3	2745.6	2133.5	1772.8	1625.5	1610.3	1623.0
20°	5430.2	5239.7	4698.7	3911.4	2936.1	2062.4	1549.3	1402.0	1402.0	1422.3	1429.9
22.5°	5384.5	5133.1	4449.8	3497.4	2336.7	1493.4	1259.8	1216.6	1264.8	1300.4	1315.6
25°	5321.0	5044.2	4195.8	3068.1	1777.9	1203.9	1094.7	1104.8	1150.6	1214.1	1209.0
27.5°	5229.6	4889.2	3893.6	2570.3	1323.3	1038.8	1010.9	1015.9	1064.2	1092.1	1087.1
30°	5125.4	4731.8	3614.2	2075.1	1049.0	952.4	949.9	962.6	970.2	985.5	982.9
32.5°	4993.4	4523.5	3317.1	1612.8	944.8	904.2	894.0	886.4	894.0	891.5	883.9
35°	4899.4	4411.7	3014.8	1229.3	886.4	861.0	853.4	840.7	830.5	815.3	812.8
37.5°	4874.0	4300.0	2697.3	1003.2	840.7	828.0	802.6	779.7	767.0	759.4	754.3
40°	4858.7	4226.3	2387.5	881.3	802.6	789.9	759.4	728.9	716.2	708.6	711.2
42.5°	4912.1	4185.7	2072.5	820.4	769.6	746.7	713.7	678.1	675.6	670.5	678.1
45°	5100.0	4236.5	1780.4	777.2	736.6	698.5	655.3	637.5	635.0	629.9	635.0
47.5°	5526.7	4363.5	1531.5	749.3	701.0	668.0	622.3	596.9	594.3	591.8	591.8
50°	6116.0	4754.6	1323.3	716.2	678.1	632.4	589.2	561.3	556.2	546.1	546.1
52.5°	7040.5	5412.4	1198.8	698.5	637.5	599.4	553.7	523.2	510.5	500.4	500.4
55°	8081.8	6227.7	1176.0	668.0	594.3	558.8	518.1	487.7	475.0	462.3	457.2
57.5°	9267.9	7307.2	1338.5	647.7	563.8	518.1	472.4	444.5	434.3	421.6	416.5
60°	10372.8	8384.1	1843.9	617.2	535.9	480.0	434.3	406.4	393.7	381.0	381.0
62.5°	11650.3	9717.5	2699.9	617.2	510.5	439.4	393.7	373.4	365.7	353.0	350.5
65°	13161.5	11096.6	3324.7	655.3	502.9	403.8	355.6	335.3	327.6	320.0	317.5
67.5°	14312.1	11889.1	2859.9	756.9	535.9	373.4	317.5	304.8	299.7	292.1	287.0
70°	14434.0	11406.5	1724.6	817.8	568.9	342.9	284.5	271.8	271.8	264.1	259.1
72.5°	13339.3	10121.3	1160.7	728.9	515.6	307.3	251.4	241.3	236.2	231.1	228.6
75°	11162.7	8584.7	916.9	581.6	396.2	254.0	218.4	208.3	200.6	198.1	193.0
77.5°	7497.7	5580.1	678.1	454.6	292.1	205.7	182.9	172.7	165.1	162.6	154.9
80°	2880.2	2125.9	436.9	330.2	205.7	162.6	144.8	134.6	129.5	121.9	116.8
82.5°	848.3	688.3	243.8	203.2	132.1	111.8	104.1	96.5	88.9	81.3	78.7
85°	350.5	314.9	149.9	106.7	81.3	66.0	61.0	53.3	45.7	40.6	35.6
87.5°	162.6	134.6	68.6	40.6	27.9	15.2	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)