

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: P480760

Luminaire Tested: **IFLD-L-SA8A-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480760
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

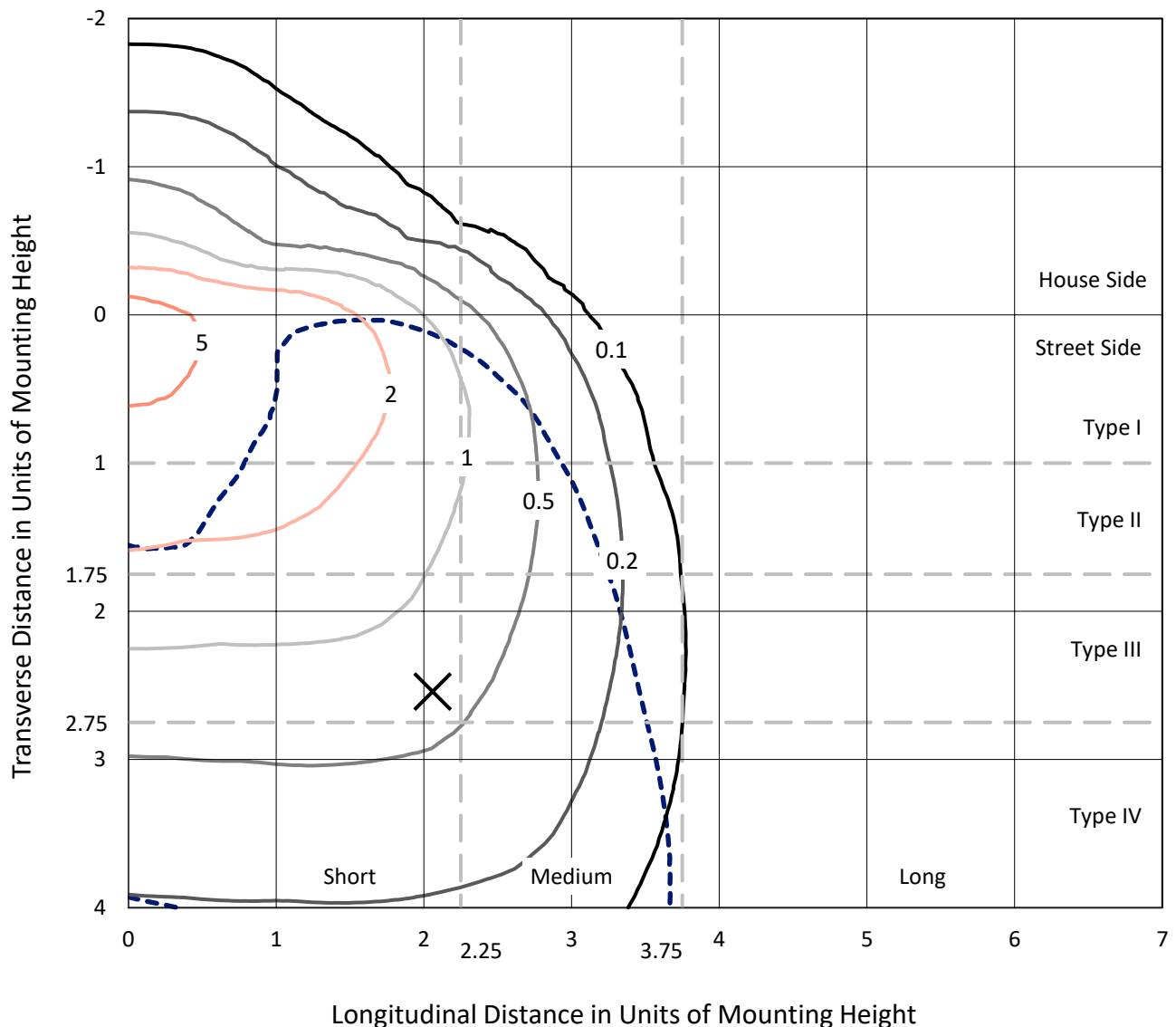
Lumens per Lamp: N/A
Luminaire Lumens: 24407.5 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 247.8
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

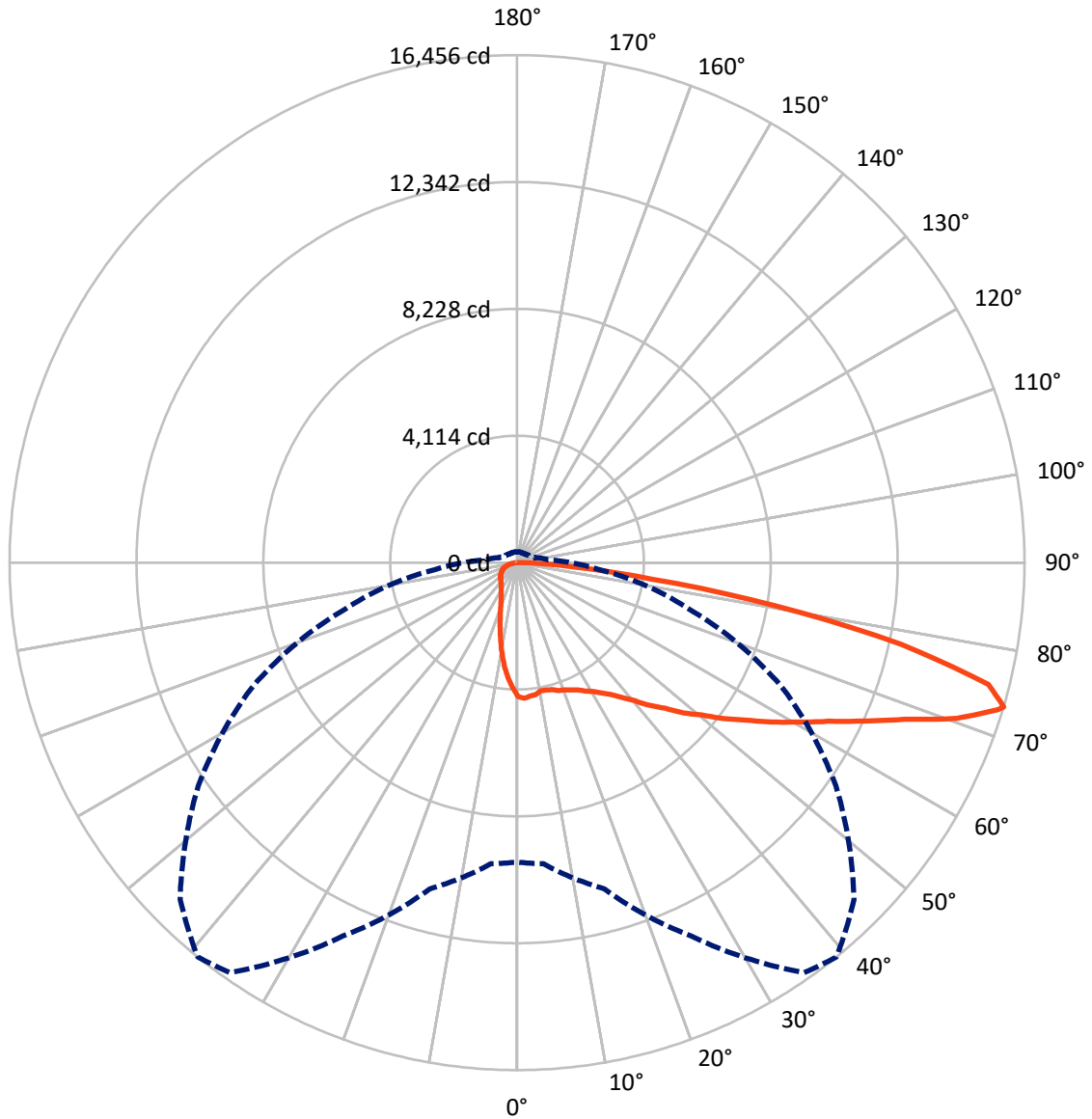
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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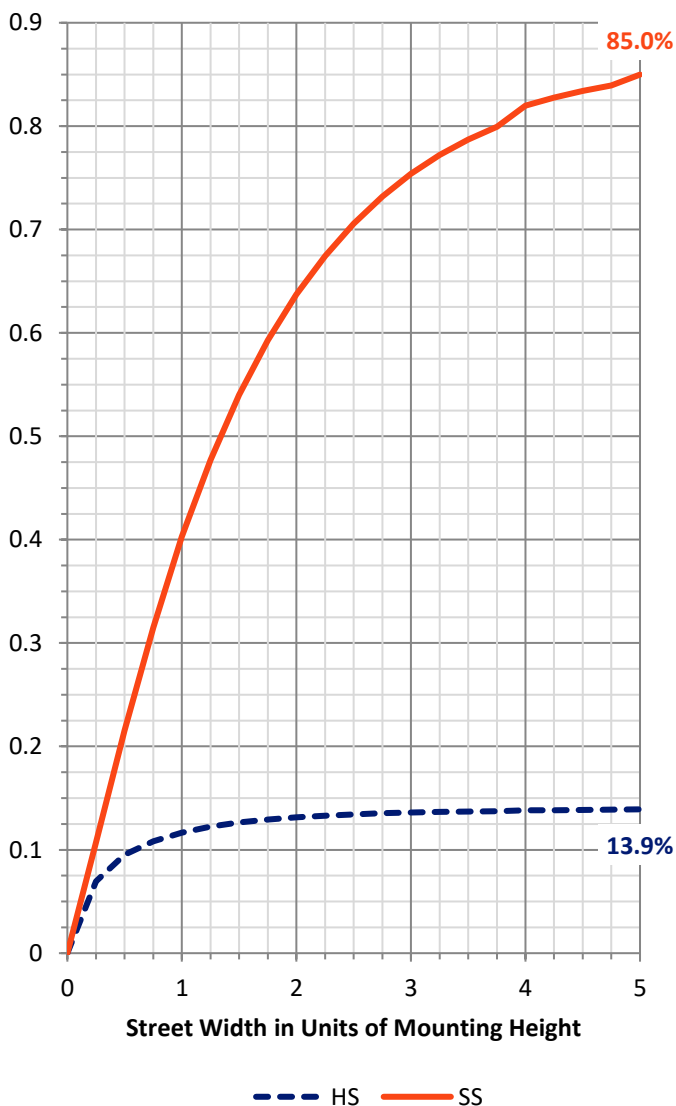
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.0	0.0	3431.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20976.5	0.0	20976.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	24407.5	0.0	24407.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	1.5
10°-20°	958.8	3.9
20°-30°	1465.1	6.0
30°-40°	2136.2	8.8
40°-50°	3228.0	13.2
50°-60°	4674.3	19.2
60°-70°	5939.0	24.3
70°-80°	4814.4	19.7
80°-90°	814.6	3.3
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°	24407.5	100.0
0°-180°	24407.5	100.0

Coefficient of Utilization



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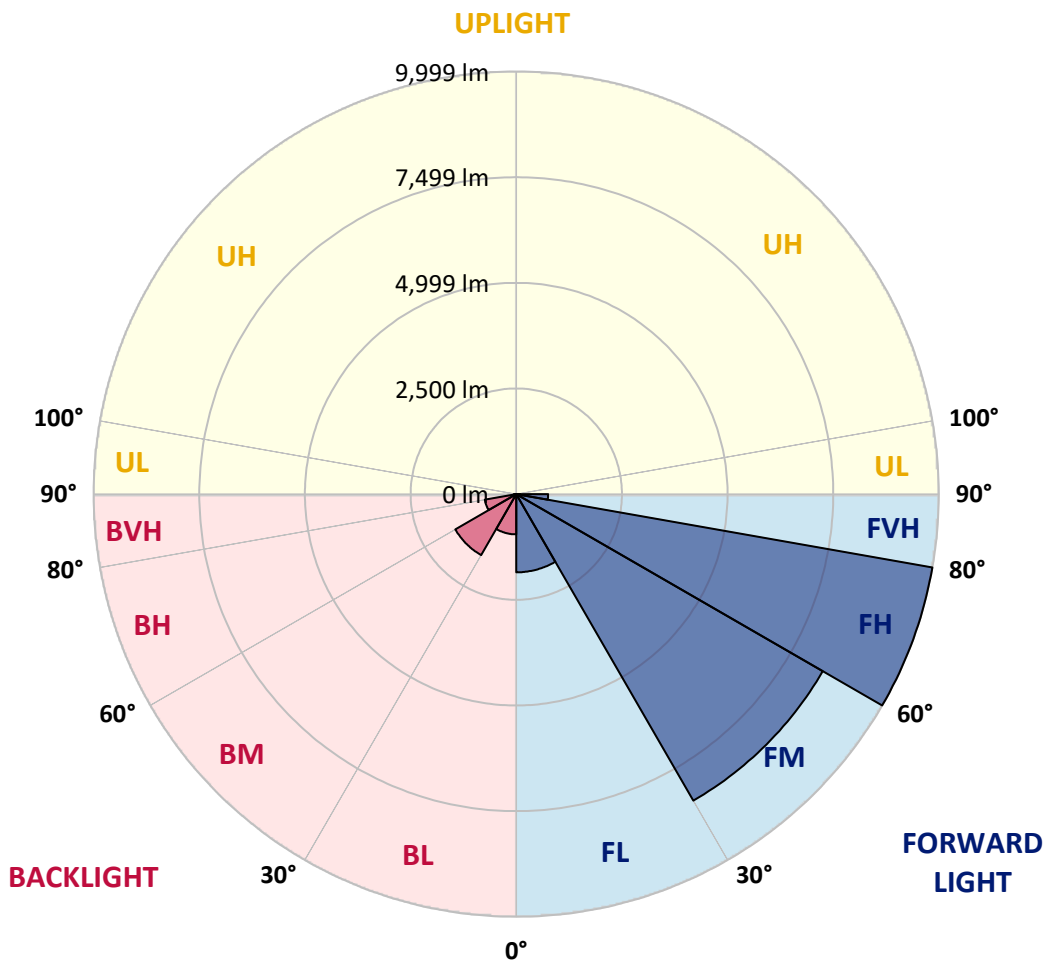
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1849.6	7.6			
FM	(30°-60°)	8373.3	34.3			
FH	(60°-80°)	9998.8	41.0			G4/12000
FVH	(80°-90°)	754.8	3.1			G5
BL	(0°-30°)	951.5	3.9	B2/1000		
BM	(30°-60°)	1665.2	6.8	B2/2500		
BH	(60°-80°)	754.6	3.1	B2/1000		G2/1000
BVH	(80°-90°)	59.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7
2.5°	4448.5	4402.0	4410.2	4393.8	4410.2	4404.8	4396.6	4355.6	4396.6	4355.6	4344.7
5°	4388.4	4388.4	4415.7	4374.7	4380.2	4352.9	4380.2	4350.1	4322.8	4254.6	4235.5
7.5°	4369.3	4366.5	4369.3	4311.9	4339.2	4322.8	4295.5	4262.8	4208.1	4164.5	4101.6
10°	4238.2	4265.5	4235.5	4251.8	4273.7	4224.5	4221.8	4213.6	4189.0	4131.7	4093.5
12.5°	4167.2	4213.6	4230.0	4216.3	4235.5	4240.9	4224.5	4213.6	4183.6	4145.3	4036.1
15°	4197.2	4142.6	4189.0	4279.1	4260.0	4273.7	4276.4	4265.5	4251.8	4180.8	4109.8
17.5°	4205.4	4172.6	4271.0	4290.1	4314.6	4363.8	4331.0	4328.3	4276.4	4227.3	4123.5
20°	4224.5	4210.9	4290.1	4391.1	4393.8	4402.0	4418.4	4377.5	4350.1	4265.5	4107.1
22.5°	4295.5	4342.0	4415.7	4459.4	4484.0	4489.4	4489.4	4407.5	4377.5	4309.2	4183.6
25°	4508.5	4459.4	4563.1	4615.0	4579.5	4571.3	4552.2	4478.5	4445.7	4385.6	4219.1
27.5°	4664.2	4661.5	4721.5	4792.5	4697.0	4716.1	4647.8	4626.0	4552.2	4519.5	4281.9
30°	4877.2	4937.3	4934.5	4956.4	4830.8	4852.6	4765.2	4724.3	4683.3	4702.4	4467.6
32.5°	5150.3	5128.4	5163.9	5147.5	5021.9	5041.0	4937.3	4874.5	4888.1	4945.5	4721.5
35°	5325.0	5303.2	5316.8	5316.8	5278.6	5256.8	5213.1	5131.2	5196.7	5303.2	5005.5
37.5°	5513.5	5540.8	5620.0	5603.6	5554.4	5554.4	5549.0	5491.6	5576.3	5838.4	5458.8
40°	5680.0	5753.8	5802.9	5835.7	5893.0	5893.0	5939.5	5906.7	6059.6	6480.2	6013.2
42.5°	5854.8	5857.5	6125.2	6149.7	6278.1	6332.7	6368.2	6395.5	6682.2	7151.9	6605.8
45°	6078.7	6092.4	6327.2	6515.7	6715.0	6734.1	6867.9	6958.1	7310.3	7886.5	7250.2
47.5°	6373.7	6357.3	6608.5	6908.9	7157.4	7288.5	7449.6	7547.9	7982.1	8683.9	7954.8
50°	6761.4	6712.3	6857.0	7329.4	7621.6	7766.4	8053.1	8216.9	8724.9	9445.8	8438.1
52.5°	7233.9	7151.9	7266.6	7782.8	8110.4	8402.6	8675.7	8858.7	9388.5	10035.7	8795.9
55°	7733.6	7564.3	7597.1	8263.4	8735.8	9011.6	9385.7	9576.9	10117.6	10565.4	9153.6
57.5°	8227.9	8121.4	8055.8	8724.9	9481.3	9746.2	10090.3	10338.8	10797.5	11035.1	9456.7
60°	8642.9	8615.6	8509.1	9440.3	10270.5	10497.2	10857.6	11010.5	11357.4	11469.3	9462.2
62.5°	8984.3	8891.5	9060.8	10016.5	11073.4	11330.0	11726.0	11739.7	11985.4	11739.7	9183.6
65°	9251.9	9257.4	9527.7	10712.9	12001.8	12381.4	12700.9	12665.4	12507.0	11578.5	8525.5
67.5°	9495.0	9598.7	9994.7	11477.5	13195.2	13552.9	13907.9	13438.2	12649.0	10824.8	7239.3
70°	9686.1	9789.9	10625.5	12408.7	14601.5	15125.8	15205.0	13744.1	11996.4	9170.0	5461.6
72.5°	9664.3	9852.7	10983.2	13151.5	15849.5	16302.8	15663.8	12883.9	9994.7	6392.8	3186.8
73°	9710.7	9803.5	10953.2	13359.0	16229.1	16455.7	15450.8	12613.5	9426.7	5734.7	2695.3
75°	8815.0	9129.0	10409.8	13020.4	15822.2	15781.2	14227.4	10510.8	6701.4	3012.1	1305.3
77.5°	6521.1	6720.5	8203.3	10707.4	12987.6	12725.5	10732.0	6717.7	3181.4	1116.9	704.5
80°	3186.8	3342.5	4347.4	6182.5	8492.8	8514.6	6660.4	3495.4	1362.7	630.8	480.6
82.5°	1592.1	1684.9	2089.1	2717.1	4178.1	4377.5	3378.0	1988.0	843.8	357.7	273.1
85°	1040.4	1106.0	1286.2	1329.9	1772.3	1870.6	1572.9	1551.1	548.9	193.9	221.2
87.5°	690.9	701.8	789.2	671.8	710.0	682.7	759.2	977.6	161.1	81.9	60.1
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°	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7	4344.7
2.5°	4331.0	4292.8	4251.8	4194.5	4153.5	4090.7	4033.4	4008.8	4003.3	4006.1	3978.8
5°	4219.1	4164.5	4082.5	3965.1	3896.8	3793.1	3705.7	3659.3	3610.1	3618.3	3596.4
7.5°	4063.4	4003.3	3877.7	3741.2	3571.9	3424.4	3342.5	3227.8	3162.3	3113.1	3140.4
10°	4014.3	3910.5	3722.1	3533.6	3271.5	3077.6	2889.2	2758.1	2668.0	2580.6	2618.8
12.5°	3989.7	3885.9	3623.8	3345.2	3006.6	2711.7	2446.8	2285.7	2157.3	2080.9	2110.9
15°	3967.8	3839.5	3530.9	3137.7	2758.1	2370.3	2072.7	1859.7	1736.8	1663.1	1671.2
17.5°	3997.9	3814.9	3394.4	2935.6	2485.0	2069.9	1739.5	1518.3	1392.7	1346.3	1335.4
20°	3967.8	3787.6	3260.6	2733.5	2211.9	1783.2	1466.4	1283.5	1196.1	1157.9	1149.7
22.5°	3978.8	3722.1	3121.3	2509.6	1958.0	1542.9	1283.5	1144.2	1075.9	1056.8	1062.3
25°	4030.6	3683.8	2982.0	2263.8	1706.7	1365.4	1166.0	1059.5	1010.4	991.3	996.7
27.5°	4068.9	3716.6	2856.4	2031.7	1493.7	1207.0	1067.7	996.7	964.0	950.3	947.6
30°	4164.5	3735.7	2733.5	1824.2	1319.0	1103.2	999.5	942.1	920.3	912.1	909.4
32.5°	4306.5	3771.2	2591.5	1633.0	1190.6	1004.9	944.9	895.7	890.2	882.0	884.8
35°	4538.6	3894.1	2433.1	1469.2	1067.7	939.4	887.5	854.7	854.7	854.7	862.9
37.5°	4871.7	4066.1	2291.1	1313.5	988.5	882.0	838.4	827.4	822.0	830.2	835.6
40°	5300.5	4273.7	2176.4	1190.6	920.3	843.8	805.6	800.1	797.4	794.7	800.1
42.5°	5770.2	4538.6	2078.1	1095.0	871.1	802.9	775.5	770.1	759.2	764.6	772.8
45°	6237.1	4866.3	1990.7	1018.6	838.4	781.0	742.8	740.0	734.6	731.9	745.5
47.5°	6756.0	5188.5	1963.4	972.2	813.8	748.2	720.9	718.2	701.8	699.1	710.0
50°	7160.1	5426.1	1993.5	950.3	778.3	723.7	704.5	690.9	677.2	663.6	663.6
52.5°	7438.7	5589.9	2015.3	933.9	759.2	690.9	666.3	660.9	647.2	633.5	628.1
55°	7689.9	5688.2	2020.8	936.7	740.0	652.7	636.3	633.5	625.4	603.5	598.0
57.5°	7774.6	5647.3	1911.6	912.1	729.1	628.1	606.2	611.7	600.8	581.7	578.9
60°	7766.4	5363.3	1663.1	879.3	704.5	600.8	573.5	589.9	589.9	568.0	565.3
62.5°	7293.9	4707.9	1359.9	816.5	677.2	573.5	543.4	568.0	576.2	562.5	559.8
65°	6313.6	3834.0	1136.0	753.7	636.3	543.4	513.4	540.7	554.4	548.9	546.2
67.5°	5224.0	2932.9	944.9	671.8	584.4	502.5	477.9	497.0	505.2	507.9	510.7
70°	3692.0	1952.5	789.2	581.7	513.4	458.8	431.5	434.2	431.5	439.7	439.7
72.5°	2007.1	1125.1	641.7	494.3	442.4	398.7	379.6	365.9	365.9	363.2	363.2
73°	1717.7	1010.4	611.7	480.6	423.3	387.8	365.9	355.0	355.0	352.3	349.5
75°	964.0	740.0	524.3	412.3	365.9	338.6	322.2	305.8	303.1	303.1	303.1
77.5°	633.5	576.2	417.8	330.4	294.9	270.3	264.9	248.5	248.5	248.5	245.8
80°	475.2	453.3	322.2	251.2	226.7	207.5	202.1	191.2	188.4	177.5	180.2
82.5°	316.8	357.7	234.8	177.5	152.9	142.0	142.0	139.3	131.1	117.4	117.4
85°	251.2	292.2	169.3	109.2	90.1	76.5	79.2	76.5	73.7	60.1	57.3
87.5°	46.4	117.4	49.2	30.0	21.8	13.7	13.7	8.2	5.5	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)