

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: P319629

Luminaire Tested: **GAN-SA5A-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21214 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

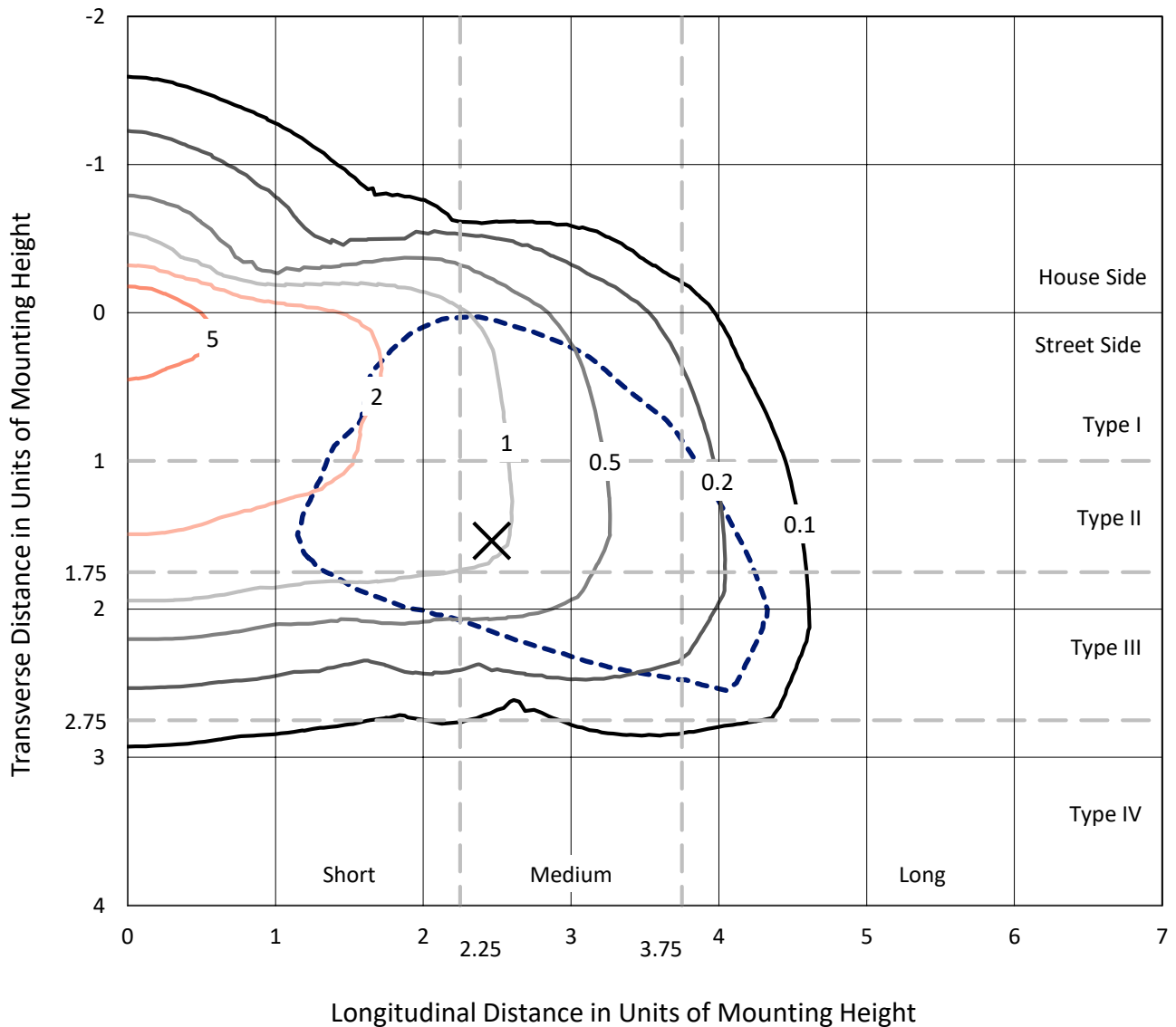
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

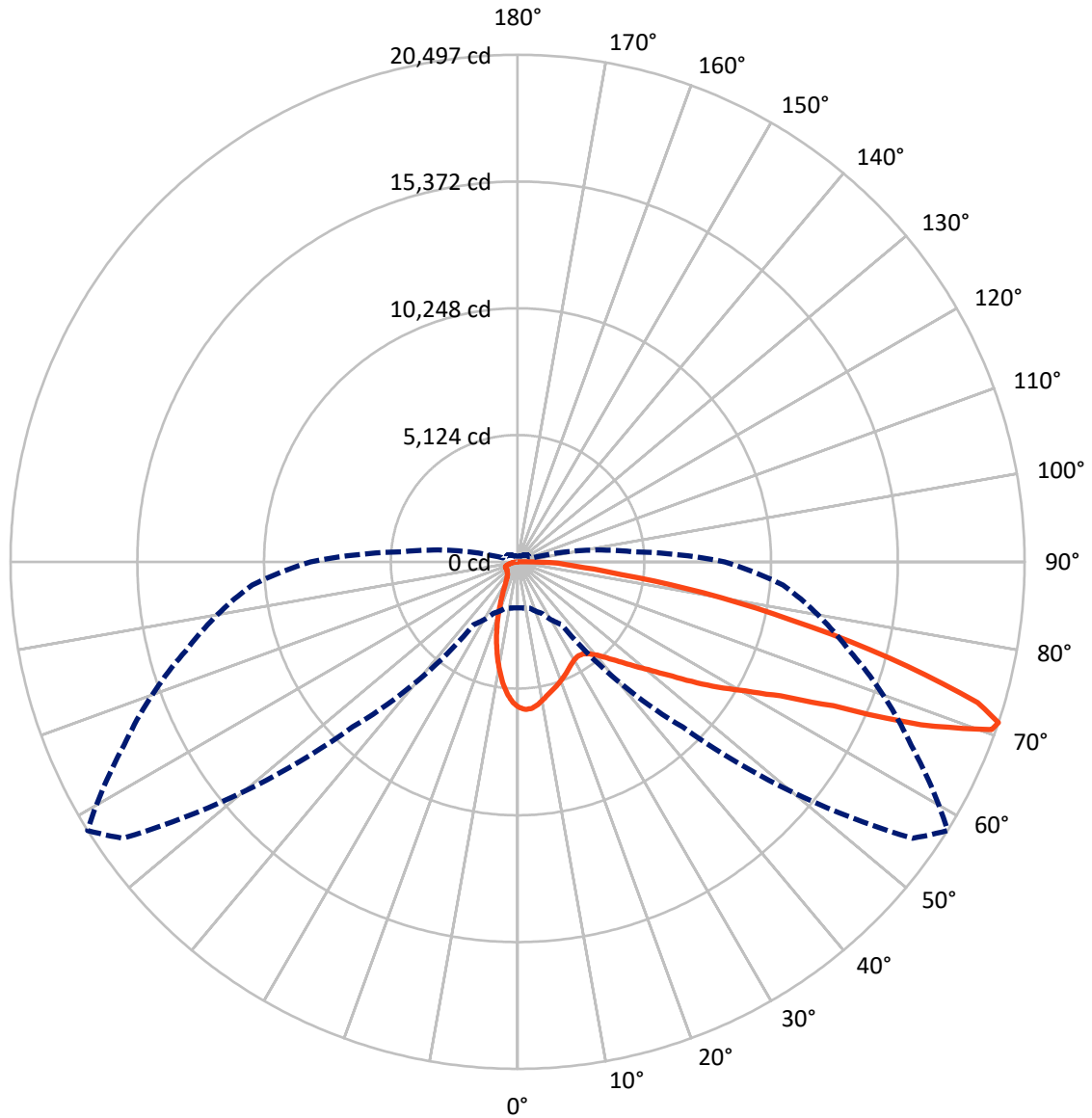
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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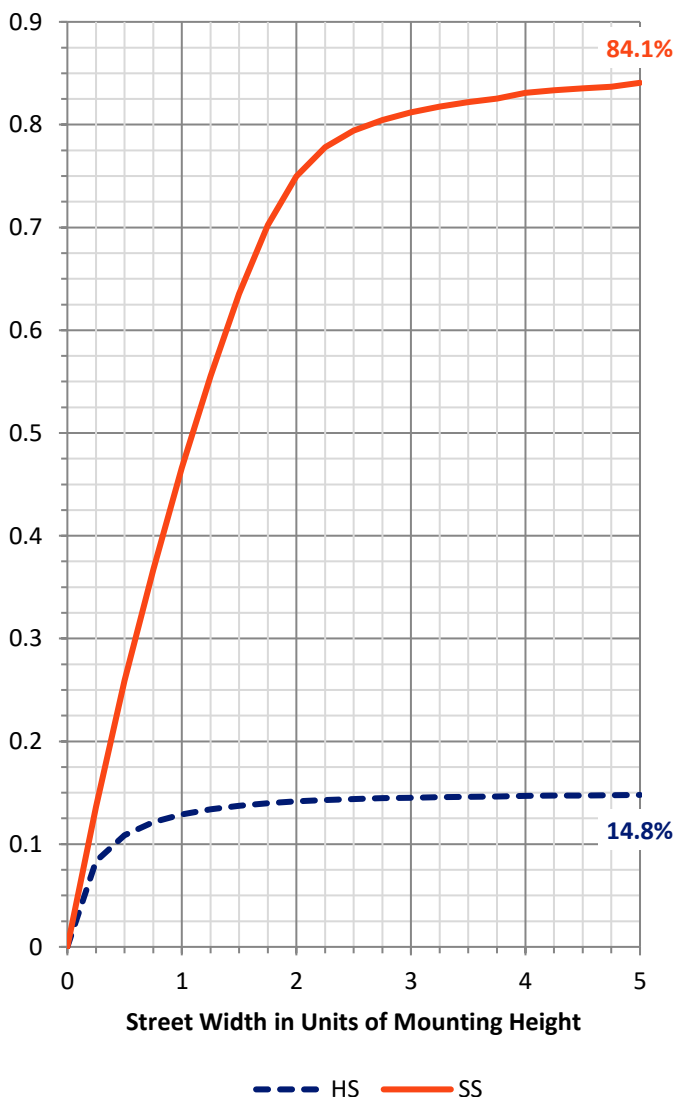
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3171.6	0.0	3171.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18042.4	0.0	18042.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	21214.0	0.0	21214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	2.4
10°-20°	1127.5	5.3
20°-30°	1433.0	6.8
30°-40°	1825.3	8.6
40°-50°	2588.4	12.2
50°-60°	4005.6	18.9
60°-70°	5453.2	25.7
70°-80°	3637.9	17.1
80°-90°	636.0	3.0
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°	21214.0	100.0
0°-180°	21214.0	100.0

Coefficient of Utilization

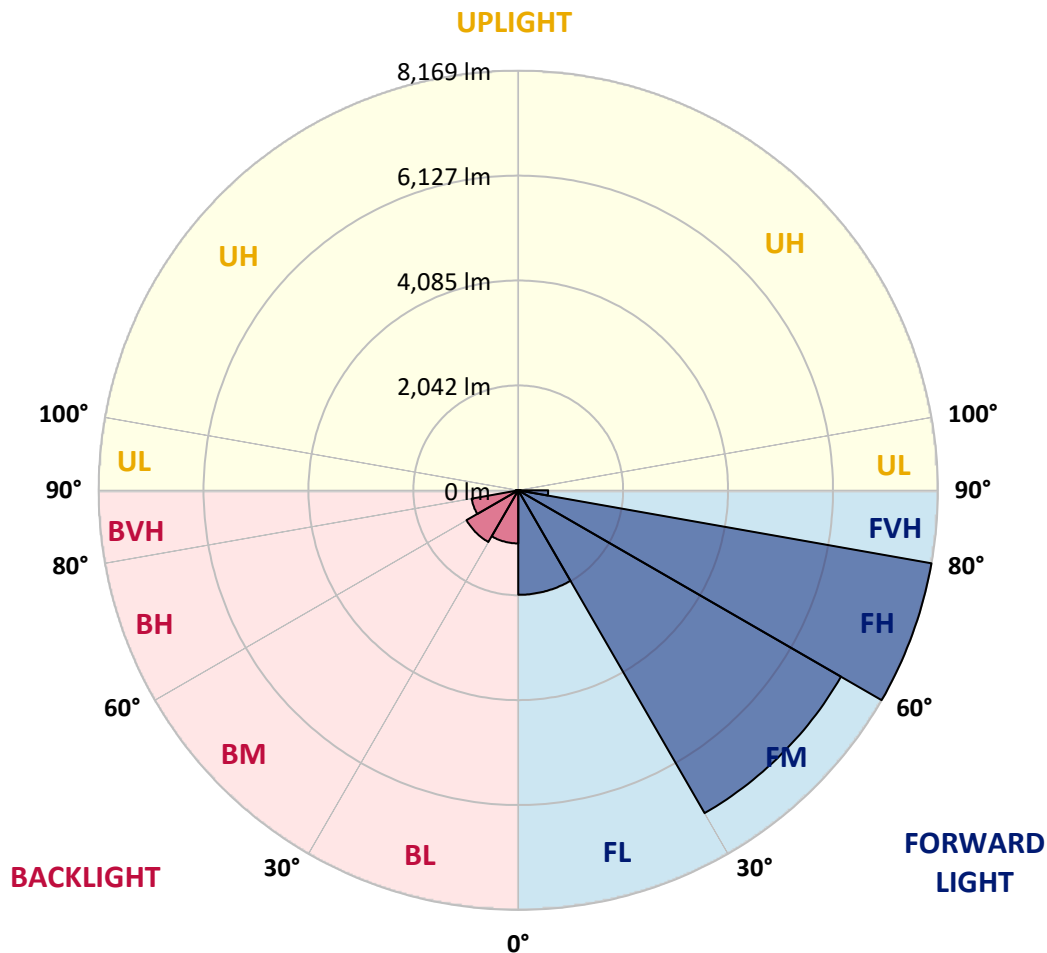


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.7	9.6			
FM (30°-60°)	7256.2	34.2			
FH (60°-80°)	8169.3	38.5			G4/12000
FVH (80°-90°)	583.2	2.7			G4/750
BL (0°-30°)	1033.9	4.9	B3/2500		
BM (30°-60°)	1163.1	5.5	B2/2500		
BH (60°-80°)	921.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	6033.6	6025.5	6028.4	6022.5	6008.5	5994.5	5973.8	5977.5	5948.6	5905.8	5852.6
5°	5919.8	5916.9	5939.0	5951.6	5961.9	5953.8	5947.9	5955.3	5913.2	5854.0	5761.7
7.5°	5681.1	5648.6	5676.7	5718.8	5758.7	5789.0	5828.9	5834.1	5807.5	5745.4	5624.2
10°	5341.9	5310.9	5352.3	5418.1	5497.9	5570.3	5650.8	5665.6	5670.8	5614.6	5467.6
12.5°	4990.2	4966.6	5007.9	5100.3	5232.6	5344.2	5472.7	5494.9	5540.7	5503.0	5322.7
15°	4675.4	4666.5	4716.8	4807.7	4959.9	5130.6	5316.1	5356.7	5434.3	5421.8	5209.7
17.5°	4403.5	4401.3	4439.7	4535.0	4703.5	4919.3	5160.2	5228.9	5344.2	5358.9	5116.6
20°	4201.0	4196.6	4223.2	4293.4	4467.0	4711.6	4991.7	5086.3	5252.5	5304.3	5020.5
22.5°	4092.4	4091.6	4092.4	4125.6	4267.5	4495.1	4827.6	4942.9	5163.1	5260.7	4914.1
25°	4073.9	4071.7	4055.4	4051.7	4132.3	4314.1	4665.1	4792.2	5078.1	5230.4	4812.9
27.5°	4121.9	4124.9	4103.5	4068.7	4085.0	4195.1	4523.9	4659.9	5010.2	5224.5	4742.7
30°	4221.7	4220.2	4201.7	4165.5	4133.7	4150.7	4423.4	4559.4	4964.3	5250.3	4694.6
32.5°	4331.8	4339.9	4336.2	4316.3	4269.0	4201.0	4393.1	4526.1	4951.0	5312.4	4673.9
35°	4464.1	4472.9	4499.5	4515.1	4459.6	4350.3	4458.2	4573.4	4989.5	5429.1	4707.2
37.5°	4589.7	4612.6	4687.2	4753.0	4705.7	4583.8	4631.1	4713.1	5108.4	5613.1	4796.6
40°	4734.5	4754.5	4876.4	5016.1	5008.7	4882.3	4909.7	4964.3	5318.3	5877.0	4958.4
42.5°	4877.1	4917.0	5093.7	5291.7	5348.6	5237.0	5280.6	5309.4	5613.9	6226.5	5240.7
45°	5067.1	5109.9	5355.3	5593.9	5726.9	5664.1	5733.6	5744.7	5985.6	6702.4	5650.8
47.5°	5354.5	5403.3	5689.3	5939.8	6143.0	6149.6	6264.2	6259.7	6449.7	7247.0	6167.4
50°	5802.3	5872.5	6106.8	6341.0	6587.8	6725.3	6878.2	6856.8	7006.1	7827.1	6762.2
52.5°	6389.1	6421.6	6595.2	6768.1	7074.8	7383.0	7602.4	7583.2	7637.2	8423.4	7437.6
55°	6997.2	7021.6	7093.3	7187.9	7600.2	8102.7	8566.8	8536.5	8399.8	9042.7	8104.9
57.5°	7544.1	7593.6	7643.1	7682.2	8129.3	8855.0	9553.3	9555.5	9227.4	9710.7	8794.4
60°	7629.0	7672.6	8000.0	8308.9	9034.5	9858.5	10609.3	10587.1	10083.9	10435.6	9562.9
62.5°	6743.8	6842.0	7388.9	8210.6	9906.5	11694.1	11956.4	11929.0	11108.1	11329.0	10457.8
65°	4832.8	4944.4	5604.3	6839.1	9483.8	13716.6	14387.6	14019.6	12504.7	12427.8	11505.6
67.5°	2788.1	2814.7	3100.7	4092.4	7221.1	13822.3	18096.4	17581.4	14673.5	13674.5	12018.5
70°	2061.7	2061.0	2128.9	2518.4	3907.6	11281.0	19860.3	20322.2	16956.9	14084.6	11293.5
71°	1864.4	1866.6	1942.7	2292.3	3094.8	9442.4	19485.7	20496.6	17558.5	13882.1	10768.9
72.5°	1594.7	1602.1	1707.7	2055.8	2603.4	6511.7	17871.8	19450.2	17843.7	13382.6	9947.9
75°	1209.7	1226.7	1373.0	1732.9	2379.5	3302.4	13116.6	15531.5	15851.5	11808.6	7391.8
77.5°	863.1	882.3	1047.8	1457.2	2262.0	2488.8	8784.0	11329.0	11665.2	7567.7	3334.2
80°	545.4	568.3	693.1	1159.4	2125.3	2363.2	5520.0	7615.0	6361.0	2421.6	848.3
82.5°	320.0	337.7	430.1	757.4	1735.8	2276.0	3247.7	4220.9	2475.5	731.6	385.7
85°	185.5	193.6	268.2	482.5	1260.7	2148.2	2386.1	2359.5	1074.4	357.7	182.5
87.5°	86.5	96.1	158.9	252.0	699.8	1557.0	1885.8	1629.4	668.0	167.7	85.7
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°	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7	5877.7
2.5°	5826.7	5814.1	5761.7	5715.1	5666.4	5602.8	5532.6	5523.7	5480.9	5489.0	5474.2
5°	5711.4	5679.7	5553.3	5438.8	5303.5	5182.3	5050.8	4990.2	4903.0	4897.1	4874.9
7.5°	5546.6	5487.5	5291.7	5074.4	4857.2	4650.3	4445.6	4311.1	4173.7	4115.3	4110.1
10°	5361.2	5260.7	4972.5	4651.0	4337.7	4035.5	3742.8	3526.3	3331.2	3238.9	3235.2
12.5°	5185.3	5036.8	4641.4	4203.9	3775.4	3383.7	2982.4	2697.9	2453.4	2371.3	2336.6
15°	5036.0	4826.9	4319.2	3759.8	3239.6	2695.7	2239.1	1939.8	1713.7	1635.3	1620.5
17.5°	4891.2	4622.2	3988.9	3311.3	2682.4	2084.6	1627.2	1404.8	1284.3	1252.5	1251.8
20°	4747.1	4411.6	3643.8	2852.4	2143.7	1559.2	1251.1	1151.3	1110.7	1107.0	1101.1
22.5°	4583.8	4188.4	3281.0	2392.0	1673.0	1225.9	1063.4	1023.5	1018.3	1031.6	1031.6
25°	4430.8	3966.7	2913.0	1941.3	1301.3	1022.7	949.6	941.4	955.5	979.1	981.3
27.5°	4288.2	3753.2	2553.8	1540.7	1042.7	900.8	870.5	880.1	905.2	932.6	933.3
30°	4170.7	3551.4	2205.1	1214.1	880.8	809.9	804.7	823.9	851.3	872.7	877.9
32.5°	4079.8	3379.3	1868.1	976.2	775.2	741.9	746.4	762.6	779.6	791.4	799.6
35°	4037.7	3231.5	1557.0	823.2	707.9	689.5	695.4	704.2	711.6	720.5	727.1
37.5°	4045.1	3116.9	1279.1	727.9	662.8	653.2	653.2	653.2	653.2	657.7	658.4
40°	4113.8	3051.2	1053.0	667.3	632.6	622.2	614.1	606.7	600.8	603.7	602.3
42.5°	4289.7	3045.3	887.5	628.9	608.2	591.2	574.9	564.6	557.2	560.1	561.6
45°	4588.2	3119.2	775.9	601.5	585.3	559.4	538.7	527.6	522.4	532.1	533.5
47.5°	4974.7	3280.2	707.9	581.6	563.8	529.8	507.7	497.3	498.8	512.8	516.5
50°	5472.7	3541.8	675.4	569.0	549.0	504.7	481.8	472.9	477.4	497.3	501.8
52.5°	6019.6	3918.7	679.1	565.3	539.4	486.2	461.9	451.5	458.9	477.4	481.1
55°	6650.6	4371.7	740.4	570.5	525.4	474.4	445.6	427.9	433.8	450.8	453.7
57.5°	7351.9	4890.4	863.8	569.0	507.7	463.3	428.6	402.0	406.4	416.8	419.7
60°	8082.0	5517.1	1055.2	573.4	499.5	450.0	405.7	372.4	371.0	379.8	381.3
62.5°	8958.4	6242.0	1274.0	576.4	504.7	433.0	375.4	342.9	338.4	340.7	342.1
65°	9861.4	6766.7	1191.9	564.6	521.0	419.0	348.8	314.1	305.9	304.5	305.2
67.5°	9889.5	6204.3	835.8	540.9	527.6	411.6	328.8	289.7	276.4	271.2	270.5
70°	8869.0	5040.5	651.0	515.8	501.0	399.8	310.4	269.7	249.8	241.6	240.9
71°	8371.0	4639.9	617.0	503.2	481.1	388.0	302.2	260.9	240.2	231.3	229.8
72.5°	7589.9	4159.6	575.7	483.3	442.6	357.7	286.7	248.3	226.9	216.5	214.3
75°	5446.9	2720.1	494.4	430.8	366.5	285.2	251.2	223.2	204.7	192.1	190.7
77.5°	2098.6	1082.6	373.9	358.4	280.8	223.2	206.9	192.9	179.6	167.0	166.3
80°	648.8	484.0	272.7	269.7	203.2	166.3	161.1	157.4	152.2	138.9	136.0
82.5°	346.6	277.8	187.7	174.4	133.0	110.8	116.8	118.2	119.0	104.9	103.5
85°	165.5	147.1	105.7	99.0	77.6	62.1	71.7	77.6	78.3	64.3	59.9
87.5°	79.1	76.9	49.5	37.7	28.8	20.7	25.1	31.0	34.0	24.4	21.4
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)