

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: P322904

Luminaire Tested: **GAN-SA0D-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55663 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

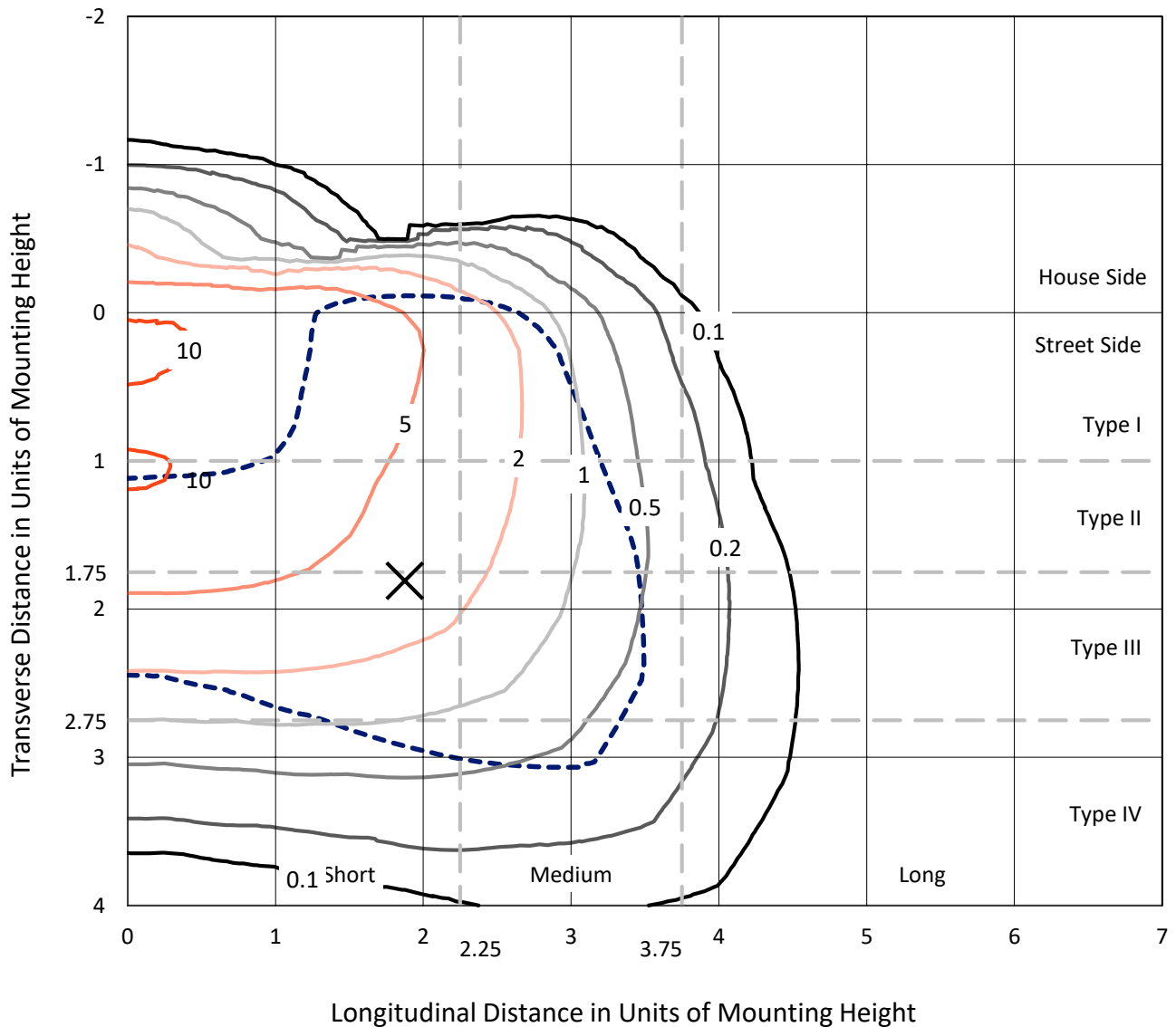




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Iso-Footcandle Lines of Horizontal Illumination

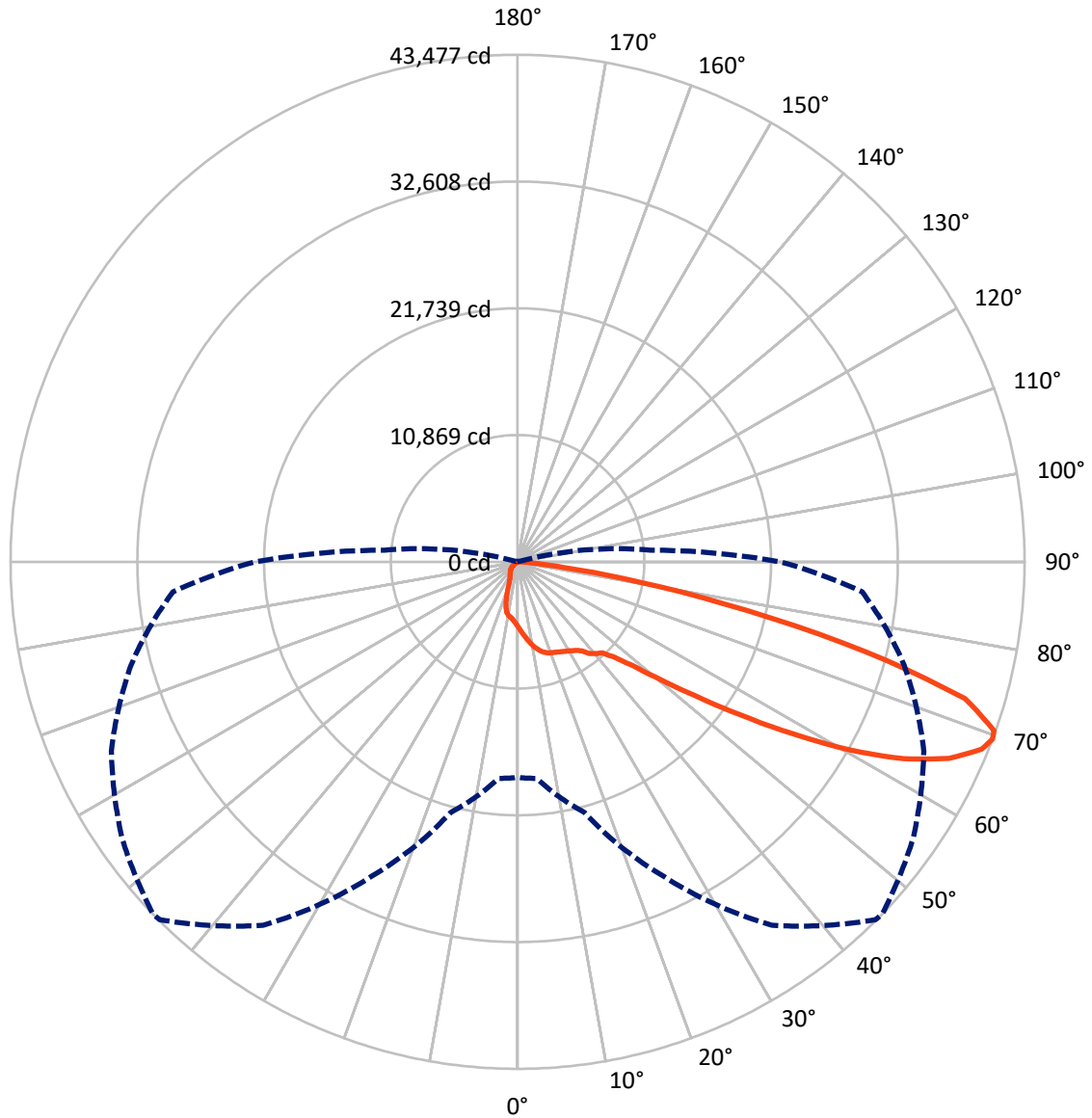
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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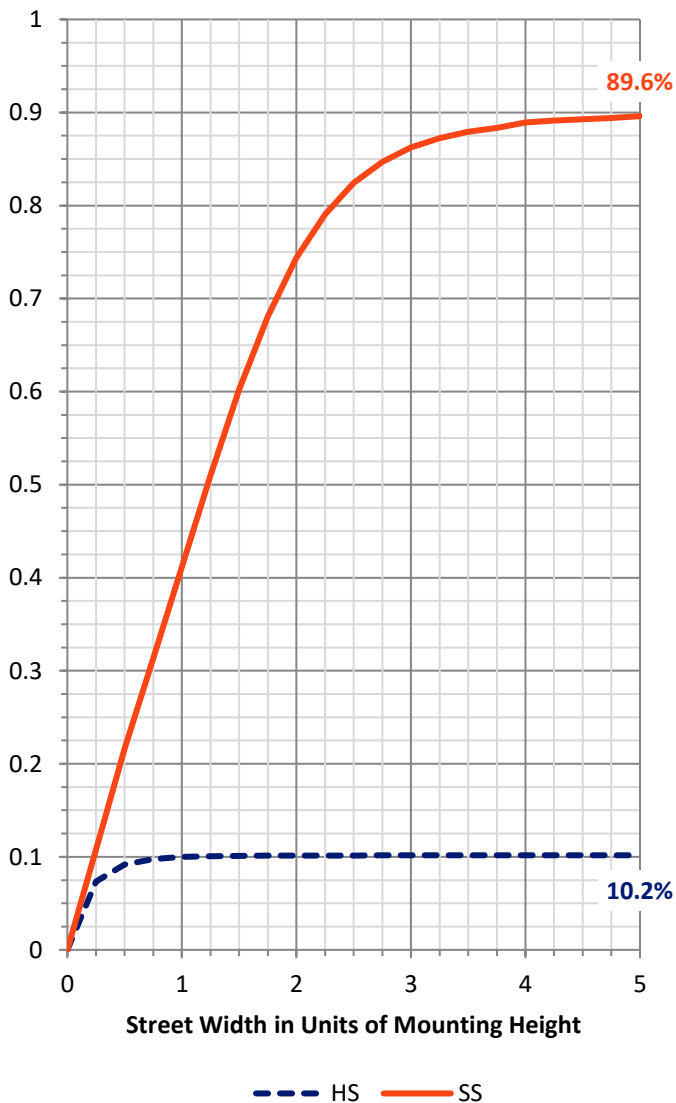
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5712.5	0.0	5712.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	49950.5	0.0	49950.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	55663.0	0.0	55663.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.1	1.0
10°-20°	1684.1	3.0
20°-30°	2648.6	4.8
30°-40°	3798.0	6.8
40°-50°	6564.5	11.8
50°-60°	12968.7	23.3
60°-70°	18124.9	32.6
70°-80°	8756.3	15.7
80°-90°	562.8	1.0
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°	55663.0	100.0
0°-180°	55663.0	100.0

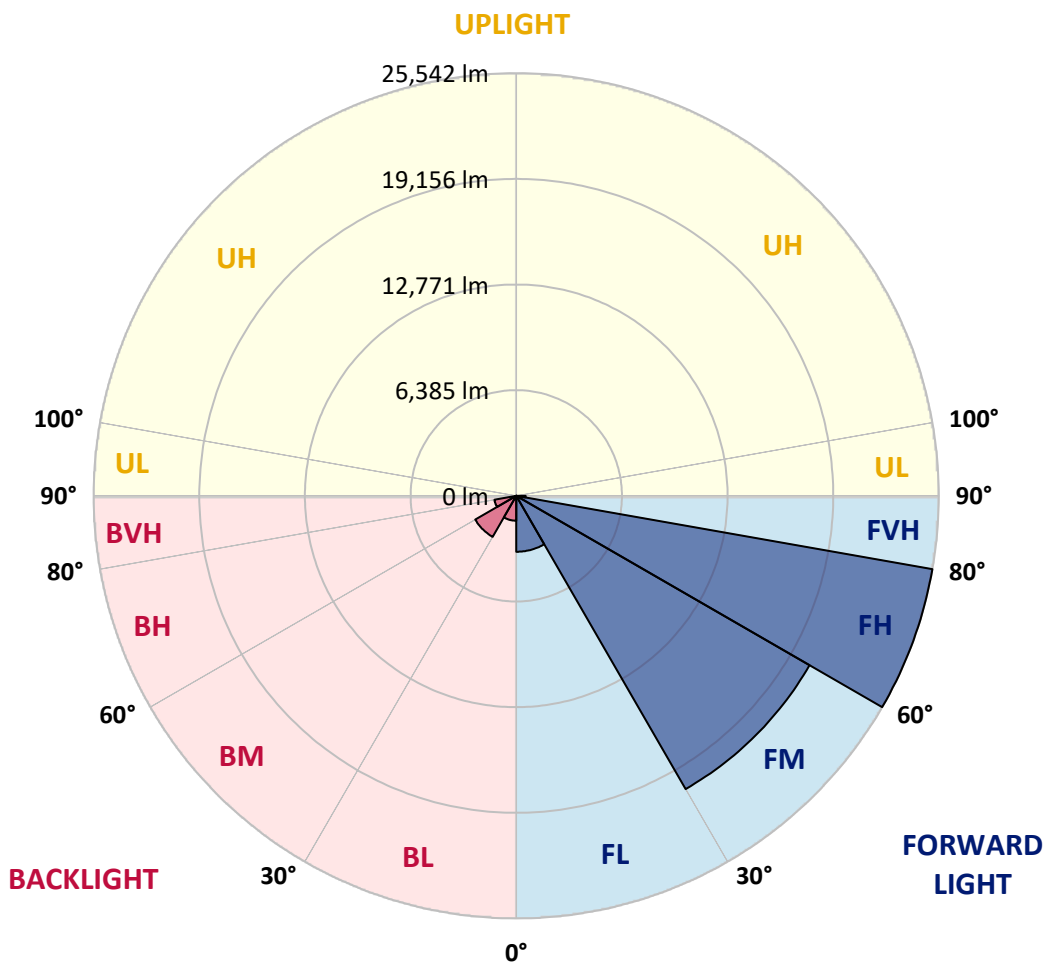


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.2	6.1			
FM (30°-60°)	20468.5	36.8			
FH (60°-80°)	25541.7	45.9			G5
FVH (80°-90°)	558.1	1.0			G4/750
BL (0°-30°)	1505.6	2.7	B3/2500		
BM (30°-60°)	2862.7	5.1	B3/5000		
BH (60°-80°)	1339.5	2.4	B3/2500		G3/2500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2
2.5°	6195.8	6187.9	6151.4	6135.7	6047.0	5994.8	5973.9	5908.7	5814.7	5720.8	5616.4
5°	6900.4	6897.8	6829.9	6764.7	6597.7	6441.1	6412.4	6261.0	6049.6	5851.3	5652.9
7.5°	7620.7	7586.8	7518.9	7393.7	7151.0	6900.4	6876.9	6662.9	6362.8	6075.7	5791.2
10°	8231.4	8210.6	8121.8	7931.3	7646.8	7362.4	7333.6	7070.1	6730.8	6378.4	6015.7
12.5°	8706.4	8690.8	8573.3	8335.8	8033.1	7738.2	7699.0	7464.1	7101.4	6707.3	6279.3
15°	8996.1	8988.3	8844.7	8591.6	8294.1	8038.3	8004.4	7798.2	7461.5	7049.2	6566.4
17.5°	9064.0	9066.6	8917.8	8662.1	8416.7	8234.0	8207.9	8051.4	7769.5	7359.7	6853.4
20°	8912.6	8943.9	8810.8	8589.0	8437.6	8341.0	8320.2	8226.2	7988.7	7602.5	7083.1
22.5°	8698.6	8714.3	8622.9	8474.1	8411.5	8429.8	8419.3	8367.1	8166.2	7811.2	7310.2
25°	8568.1	8568.1	8513.3	8388.0	8429.8	8542.0	8544.6	8534.2	8375.0	8067.0	7586.8
27.5°	8562.9	8547.2	8484.6	8390.6	8505.5	8677.7	8688.2	8758.6	8659.4	8377.6	7931.3
30°	8771.7	8753.4	8620.3	8497.6	8643.8	8829.1	8855.2	9009.2	8959.6	8714.3	8314.9
32.5°	9259.7	9194.5	8899.5	8698.6	8808.2	9030.0	9064.0	9309.3	9387.6	9129.2	8685.5
35°	9927.8	9721.6	9296.2	9079.6	9090.1	9322.3	9353.7	9713.8	9946.1	9510.3	8972.6
37.5°	10849.1	10747.3	10055.7	9476.3	9523.3	9875.6	9967.0	10358.4	10293.2	9719.0	9298.9
40°	12869.1	12709.9	11973.9	10588.1	9938.3	10324.5	10353.2	10562.0	10567.2	10191.4	9977.4
42.5°	15619.9	15554.6	14779.5	12605.5	10755.1	10624.7	10676.8	11029.2	11423.3	11188.4	11177.9
45°	18665.6	18631.6	17809.5	15283.2	12407.2	11608.6	11673.8	12146.2	12900.4	12952.6	13284.1
47.5°	21116.2	21100.5	20628.2	18271.5	14936.1	13276.2	13297.1	13798.2	15124.0	15779.1	16308.9
50°	23350.2	23425.9	23052.7	21505.1	18381.1	15888.7	15839.1	16173.2	18302.8	19375.4	20033.1
52.5°	26455.9	26562.9	25516.4	24522.0	21995.7	19130.1	19091.0	19440.7	22123.6	22927.4	23044.9
55°	29198.9	29016.2	28188.9	27901.8	26403.7	23133.6	23123.2	23431.1	25819.1	26161.0	26377.6
57.5°	30409.8	30339.4	30738.7	31396.4	31020.5	27865.2	27841.8	27606.9	29125.8	29162.3	29827.8
60°	31174.5	31260.6	32484.7	34512.5	35449.4	32957.0	32805.7	31372.9	32283.7	32202.8	32915.3
62.5°	30600.4	30770.0	32972.7	36352.4	38763.9	37401.6	37187.6	34823.1	34982.3	34703.0	35365.9
65°	27552.1	27815.7	31425.1	36005.3	40408.1	40875.3	40658.7	37868.8	37125.0	36665.6	36297.6
67.5°	22371.5	22528.1	26296.7	32985.7	39666.9	42947.5	42903.1	40538.6	38743.1	36334.2	33479.0
69°	18488.1	18642.1	22269.8	29807.0	38035.8	43391.2	43477.3	41394.6	38435.1	34319.4	29663.4
70°	15659.0	15823.4	19203.2	27082.3	36143.7	43185.0	43339.0	41313.7	37553.0	31986.2	26315.0
72.5°	8213.2	8354.1	11822.6	18657.7	29465.1	39653.9	40121.0	37821.8	31832.2	23230.2	15559.9
75°	2581.1	2662.0	4616.8	9753.0	20174.1	30832.6	30939.6	29668.6	22603.8	12777.8	6480.2
77.5°	983.9	960.4	1537.2	3593.7	10199.2	19414.6	20069.7	18540.3	11861.7	4517.6	1495.4
80°	529.8	532.4	798.6	1487.6	4363.6	9977.4	10530.7	8985.7	4214.9	1409.3	344.5
82.5°	229.7	240.1	448.9	788.2	2004.4	3679.9	3956.5	3293.6	1610.3	947.4	127.9
85°	49.6	54.8	216.6	428.0	816.9	1033.5	1083.1	1067.4	1025.7	736.0	49.6
87.5°	0.0	0.0	96.6	154.0	206.2	234.9	206.2	268.8	566.3	495.9	26.1
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°	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2	5577.2
2.5°	5582.4	5535.5	5454.6	5365.8	5303.2	5237.9	5185.7	5162.3	5136.2	5117.9	5141.4
5°	5572.0	5480.7	5324.1	5172.7	5063.1	4974.4	4901.3	4872.6	4843.9	4823.0	4820.4
7.5°	5663.3	5535.5	5295.4	5073.5	4903.9	4783.8	4684.7	4642.9	4609.0	4593.3	4580.3
10°	5838.2	5673.8	5352.8	5063.1	4843.9	4640.3	4426.3	4261.9	4154.9	4105.3	4087.0
12.5°	6065.3	5859.1	5462.4	5117.9	4799.5	4408.0	3953.9	3562.4	3309.3	3225.8	3176.2
15°	6331.5	6075.7	5605.9	5188.4	4637.7	3922.6	3152.7	2641.2	2406.3	2359.3	2307.1
17.5°	6587.2	6305.4	5778.2	5201.4	4282.7	3134.4	2309.7	1962.6	1871.3	1902.6	1910.4
20°	6811.7	6532.4	5947.8	5086.6	3638.1	2351.5	1787.7	1701.6	1735.5	1795.6	1806.0
22.5°	7038.7	6751.7	6104.4	4783.8	2813.4	1785.1	1610.3	1631.1	1665.1	1725.1	1735.5
25°	7315.4	7017.9	6250.6	4227.9	2111.4	1518.9	1529.4	1560.7	1594.6	1649.4	1654.6
27.5°	7633.8	7354.5	6347.1	3505.0	1565.9	1396.3	1430.2	1477.2	1511.1	1563.3	1573.7
30°	8056.6	7798.2	6378.4	2756.0	1312.7	1286.7	1302.3	1359.7	1409.3	1456.3	1464.1
32.5°	8453.3	8236.6	6274.1	2080.0	1216.2	1184.9	1184.9	1218.8	1276.2	1320.6	1331.0
35°	8818.6	8677.7	5940.0	1521.5	1143.1	1090.9	1064.8	1064.8	1101.4	1137.9	1148.3
37.5°	9301.5	9296.2	5399.8	1213.6	1072.6	1012.6	957.8	916.1	903.0	910.8	916.1
40°	10128.8	10136.6	4695.1	1088.3	1012.6	931.7	848.2	772.5	702.0	678.6	675.9
42.5°	11420.7	11303.2	3956.5	1028.3	960.4	848.2	722.9	621.1	511.5	477.6	475.0
45°	13472.0	12775.2	3173.6	973.5	905.6	754.2	597.7	459.3	370.6	344.5	344.5
47.5°	16460.3	14709.0	2458.5	913.4	832.5	647.2	451.5	331.4	271.4	258.4	261.0
50°	19550.3	16603.8	1884.3	837.8	743.8	535.0	334.1	240.1	206.2	206.2	208.8
52.5°	22290.6	17992.2	1469.3	756.9	634.2	420.2	253.2	187.9	172.2	169.6	172.2
55°	24856.1	18887.4	1124.8	662.9	503.7	313.2	193.1	154.0	143.5	138.3	135.7
57.5°	27330.2	19331.1	843.0	535.0	365.4	227.1	154.0	130.5	120.1	112.2	109.6
60°	28977.0	18970.9	579.4	394.1	253.2	164.4	127.9	112.2	99.2	91.3	88.7
62.5°	29906.1	17987.0	373.2	284.5	180.1	122.7	101.8	94.0	75.7	67.9	67.9
65°	29530.3	16363.7	261.0	203.6	130.5	91.3	75.7	75.7	54.8	44.4	41.8
67.5°	26168.8	13824.3	198.3	151.4	94.0	67.9	57.4	65.2	33.9	20.9	20.9
69°	22515.1	11457.2	169.6	125.3	78.3	54.8	49.6	60.0	23.5	15.7	13.0
70°	19568.6	9883.5	154.0	109.6	65.2	47.0	44.4	57.4	23.5	13.0	10.4
72.5°	11707.7	5512.0	117.4	78.3	41.8	36.5	36.5	65.2	23.5	13.0	10.4
75°	4731.6	1941.7	86.1	54.8	31.3	31.3	44.4	83.5	20.9	10.4	7.8
77.5°	1072.6	425.4	49.6	33.9	20.9	31.3	52.2	65.2	13.0	5.2	0.0
80°	261.0	104.4	31.3	20.9	13.0	23.5	39.1	36.5	2.6	0.0	0.0
82.5°	86.1	36.5	13.0	10.4	2.6	7.8	18.3	10.4	0.0	0.0	0.0
85°	36.5	20.9	5.2	2.6	0.0	0.0	2.6	0.0	0.0	0.0	0.0
87.5°	23.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	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)