

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: P321934

Luminaire Tested: **GAN-SA0C-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49804 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

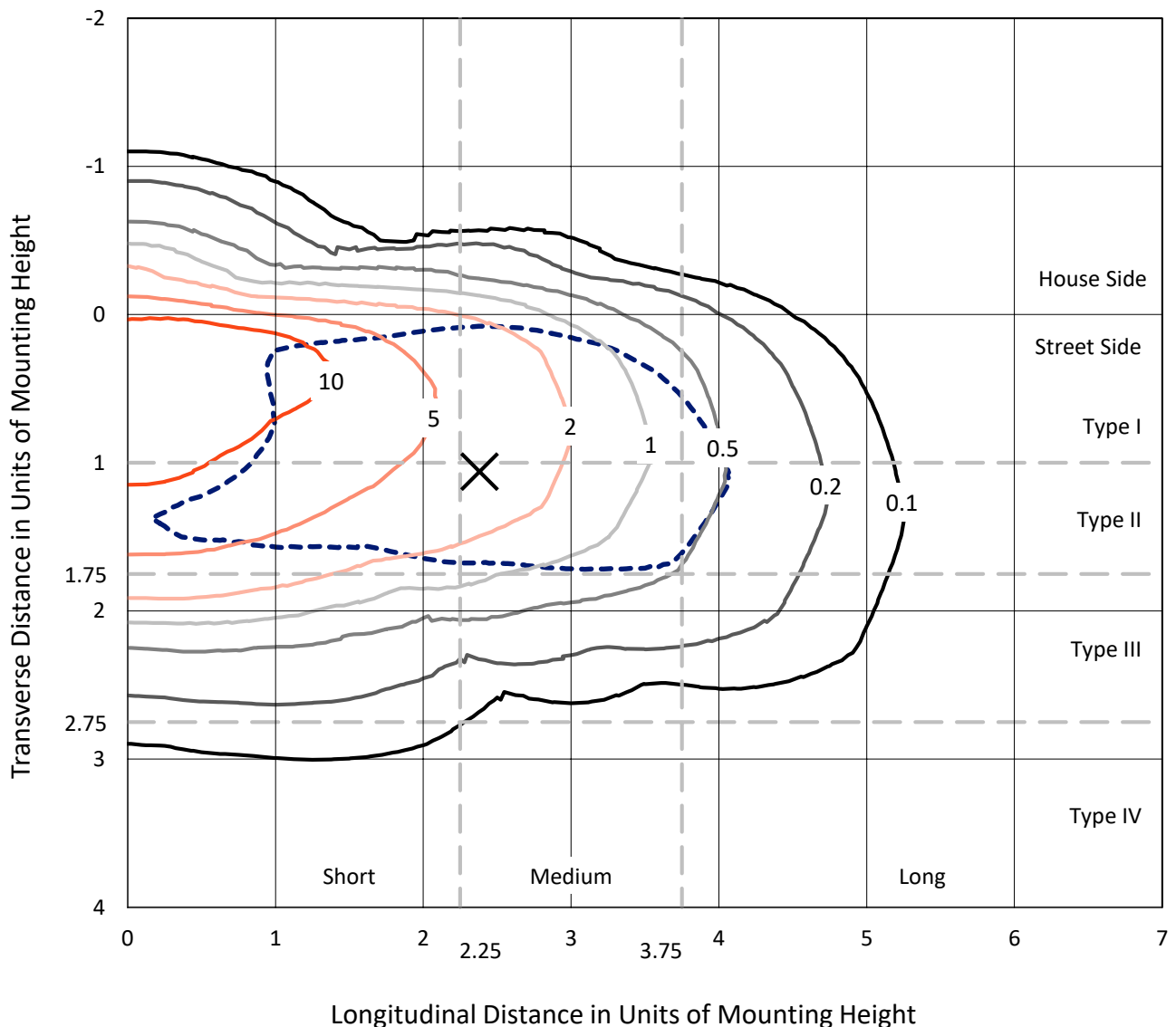
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

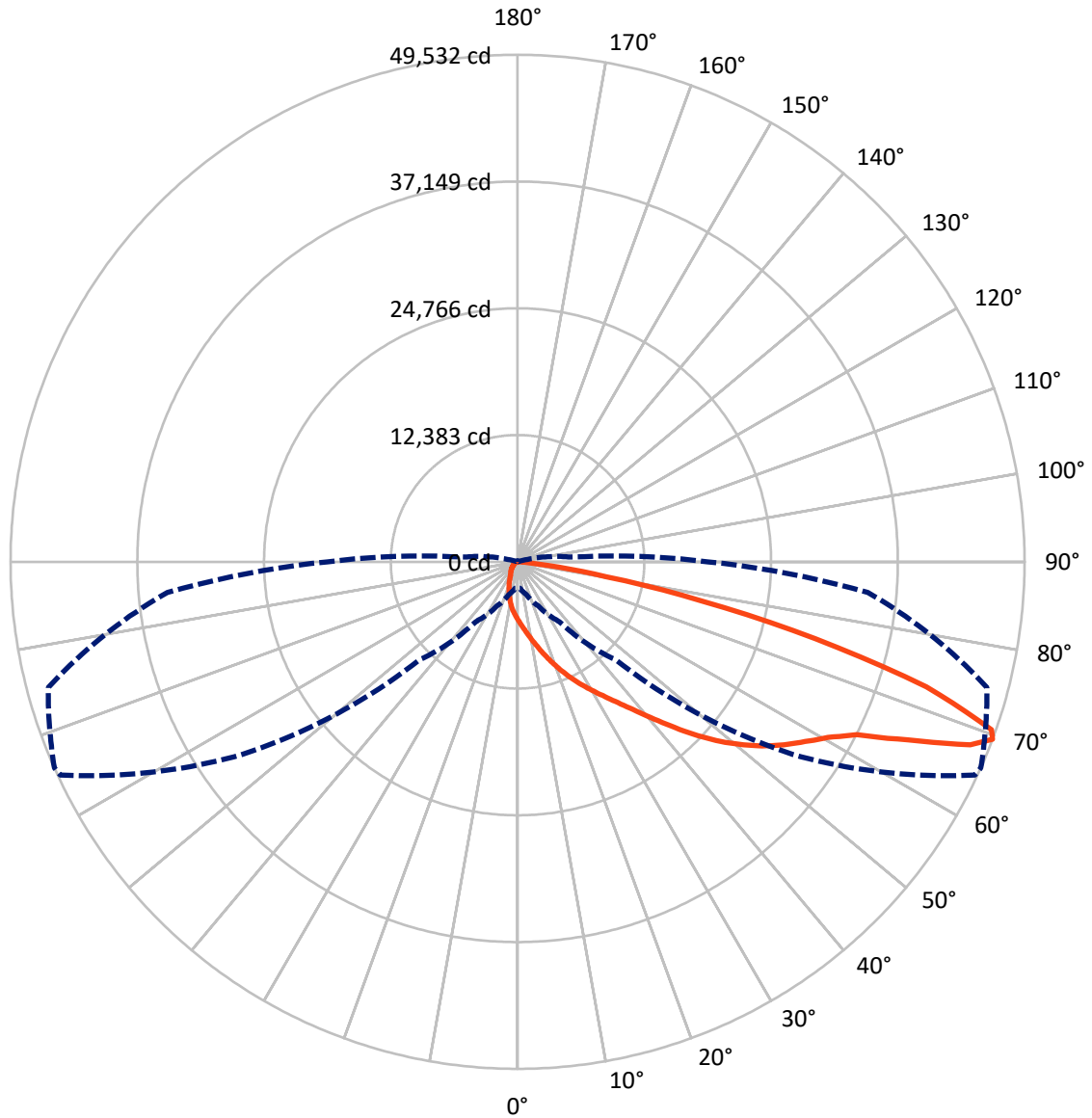
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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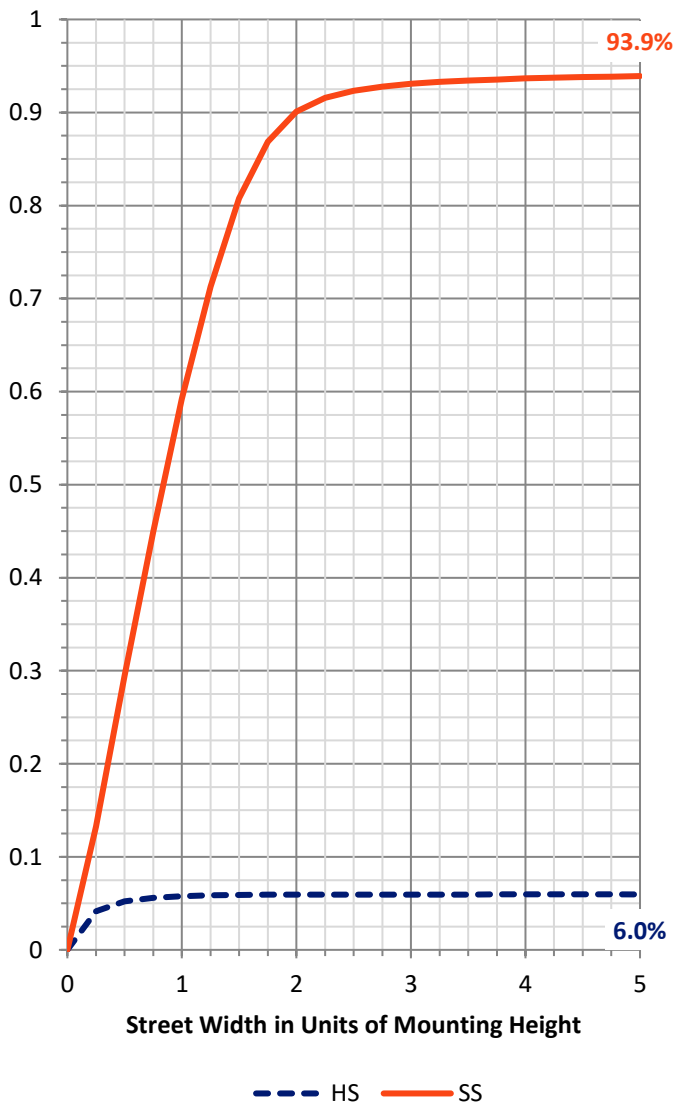
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.5	0.0	2987.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	46816.5	0.0	46816.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	49804.0	0.0	49804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	1.1
10°-20°	1630.6	3.3
20°-30°	2839.4	5.7
30°-40°	4981.8	10.0
40°-50°	8338.7	16.7
50°-60°	12257.1	24.6
60°-70°	12584.9	25.3
70°-80°	6212.8	12.5
80°-90°	410.8	0.8
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°	49804.0	100.0
0°-180°	49804.0	100.0

Coefficient of Utilization

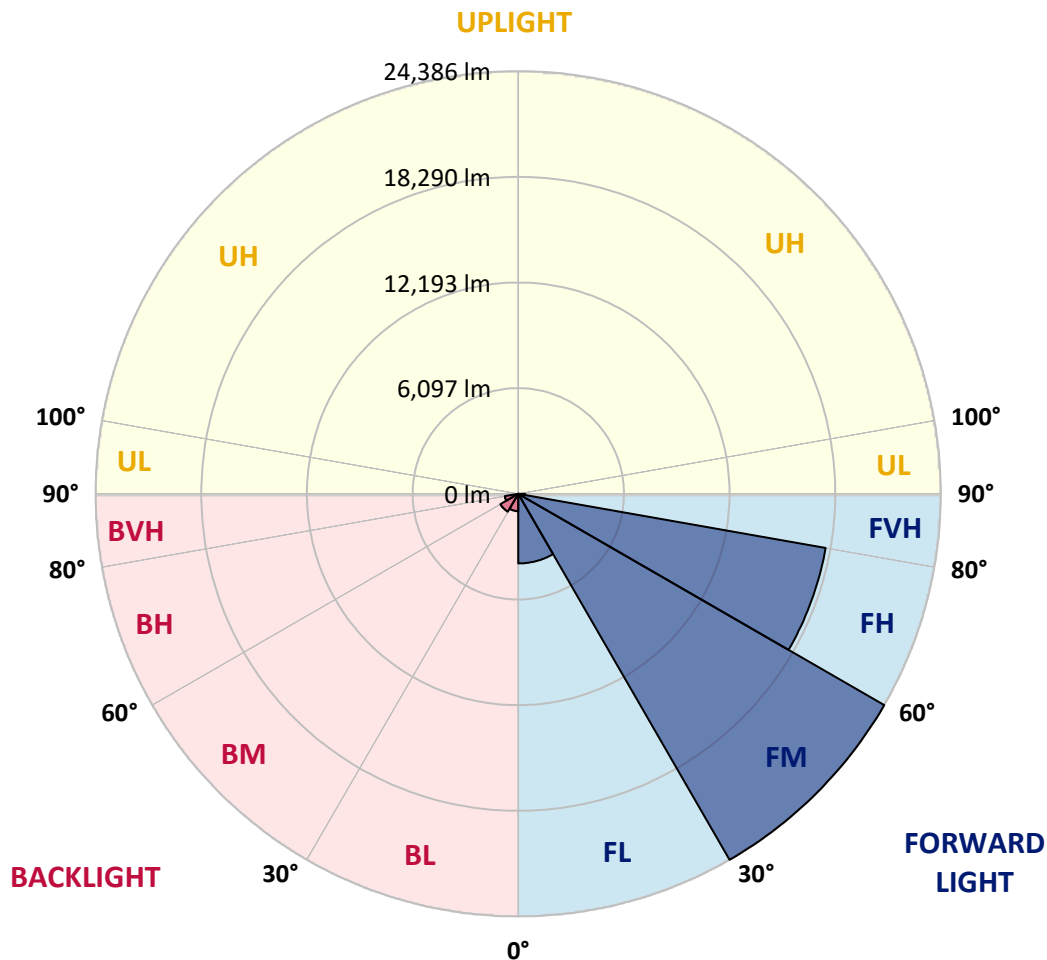


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4018.7	8.1			
FM (30°-60°)	24386.4	49.0			
FH (60°-80°)	18010.5	36.2			G5
FVH (80°-90°)	400.9	0.8			G3/500
BL (0°-30°)	999.2	2.0	B2/1000		
BM (30°-60°)	1191.1	2.4	B2/2500		
BH (60°-80°)	787.3	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9
2.5°	6670.8	6642.5	6630.6	6578.6	6488.7	6420.1	6287.6	6133.9	6105.5	5956.5	5774.3
5°	7536.6	7513.0	7496.4	7423.1	7330.8	7158.2	6916.9	6630.6	6576.2	6292.4	5928.1
7.5°	8139.9	8182.4	8182.4	8135.1	8019.2	7889.1	7593.4	7203.1	7134.5	6699.2	6133.9
10°	8492.3	8544.4	8584.6	8624.8	8608.2	8556.2	8277.1	7837.1	7754.3	7177.1	6372.8
12.5°	8525.4	8577.5	8691.0	8859.0	9022.2	9140.5	8965.4	8539.6	8445.0	7730.6	6656.7
15°	8340.9	8395.3	8570.4	8896.8	9291.9	9637.2	9694.0	9317.9	9220.9	8390.6	7011.5
17.5°	8019.2	8054.7	8305.4	8757.3	9377.0	10011.0	10354.0	10152.9	10063.0	9145.2	7406.5
20°	7780.3	7806.3	8026.3	8511.2	9325.0	10245.2	10978.5	11040.0	10945.4	9954.2	7834.7
22.5°	8189.5	8236.8	8243.9	8473.4	9183.1	10361.1	11527.3	11912.9	11841.9	10812.9	8255.8
25°	9308.4	9362.8	9183.1	9041.1	9303.7	10413.1	11998.1	12807.1	12750.3	11737.9	8679.2
27.5°	10786.9	10843.7	10611.9	10188.4	9935.3	10609.5	12416.8	13715.5	13713.1	12717.2	9135.7
30°	12239.3	12296.1	12059.6	11636.1	11054.2	11165.4	12778.7	14666.4	14680.6	13727.3	9620.7
32.5°	13762.8	13833.7	13590.1	13046.0	12438.1	12125.8	13287.3	15622.1	15702.5	14898.2	10167.1
35°	15494.3	15503.8	15160.8	14590.7	13890.5	13410.3	14103.4	16693.7	16885.3	16348.3	10860.2
37.5°	17192.8	17261.4	16979.9	16081.0	15437.6	14893.5	15316.9	18032.6	18304.6	18120.1	11766.2
40°	18451.3	18595.6	18555.4	17585.5	16975.2	16587.2	16823.8	19624.6	19970.0	20182.9	12908.8
42.5°	19241.4	19350.2	19534.7	18950.4	18396.9	18460.7	18602.7	21479.2	21905.0	22534.2	14221.7
45°	20147.4	20199.4	20353.2	20095.3	19721.6	20365.0	20490.4	23568.0	24015.1	25063.0	15678.9
47.5°	21254.5	21377.5	21420.0	21183.5	21013.2	22049.3	22309.5	25467.5	26094.4	27771.5	17221.2
50°	22664.3	22697.4	22770.8	22617.0	22446.7	23497.0	23941.7	27461.7	28031.8	30489.6	18742.2
52.5°	24043.4	24161.7	24417.2	24320.2	24251.6	24729.4	25396.5	29259.5	29895.8	32755.8	20260.9
55°	24440.9	24542.6	25424.9	26028.1	26586.4	26248.1	26787.5	30870.4	31558.8	34780.7	21722.8
57.5°	22853.6	23059.4	24587.5	26158.2	28474.1	28608.9	28698.8	32523.9	33141.3	36332.5	23243.9
60°	18841.6	18881.8	21389.3	24083.7	28161.9	30669.3	31490.2	34300.5	34818.5	37777.8	25065.4
62.5°	11983.9	12393.1	15144.2	18948.0	24859.6	30371.3	34865.8	36987.7	37177.0	39511.8	27676.9
65°	5708.1	5973.0	7955.3	11707.1	18006.6	26555.7	37195.9	41848.9	41934.1	42948.9	31166.1
67.5°	3160.4	3288.1	4232.0	6301.8	10526.7	18780.1	36254.4	47606.7	47687.1	46459.4	34227.1
69°	2472.0	2580.8	3323.6	4750.0	7136.9	13497.8	32807.8	49293.3	49532.2	47464.7	34335.9
70°	2098.2	2204.7	2862.3	4012.0	5738.8	10429.7	29202.7	48874.6	49127.7	47370.1	33524.6
72.5°	1284.5	1346.0	1906.6	2824.5	3846.4	5246.8	18008.9	41333.2	41761.4	43452.8	28812.4
75°	865.8	898.9	1192.2	1949.2	2751.1	2701.5	9355.7	29134.1	30061.4	33801.3	21280.5
77.5°	619.8	650.5	799.6	1260.8	1927.9	1783.6	4236.7	18105.9	18304.6	20272.8	11605.4
80°	352.5	380.9	565.4	749.9	1308.1	1189.9	1684.3	8648.4	8747.8	8693.4	3874.8
82.5°	184.5	208.2	309.9	494.4	839.8	778.3	700.2	2895.4	2909.6	2420.0	849.2
85°	35.5	42.6	153.8	338.3	432.9	338.3	286.2	678.9	693.1	612.7	210.5
87.5°	0.0	2.4	61.5	75.7	85.2	87.5	92.3	132.5	141.9	191.6	56.8
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°	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9	5667.9
2.5°	5693.9	5608.7	5445.5	5256.2	5109.6	4965.3	4851.7	4733.5	4690.9	4669.6	4667.2
5°	5750.6	5570.9	5225.5	4870.7	4579.7	4305.3	4109.0	3922.1	3834.6	3794.3	3777.8
7.5°	5845.3	5556.7	5000.8	4459.1	4040.4	3697.4	3425.3	3221.9	3120.2	3077.6	3061.0
10°	5956.5	5537.7	4738.2	4023.8	3489.2	3134.4	2864.7	2663.6	2552.4	2505.1	2481.5
12.5°	6086.6	5504.6	4435.4	3583.8	3018.4	2663.6	2337.2	2088.8	1961.0	1906.6	1880.6
15°	6247.4	5471.5	4118.4	3169.8	2604.5	2171.6	1814.4	1646.4	1620.4	1610.9	1613.3
17.5°	6405.9	5419.5	3773.1	2760.6	2169.2	1696.1	1514.0	1504.5	1509.2	1509.2	1509.2
20°	6547.8	5301.2	3396.9	2410.5	1755.2	1431.2	1393.3	1376.7	1364.9	1355.5	1343.6
22.5°	6659.0	5142.7	3035.0	2062.8	1433.5	1310.5	1251.4	1199.3	1156.8	1128.4	1114.2
25°	6734.7	4932.2	2703.8	1729.2	1289.2	1192.2	1085.8	998.3	932.0	891.8	875.3
27.5°	6791.5	4705.1	2408.1	1447.7	1189.9	1055.0	915.5	811.4	742.8	707.3	693.1
30°	6831.7	4447.2	2147.9	1272.7	1078.7	910.7	761.7	660.0	610.3	591.4	581.9
32.5°	6869.6	4161.0	1901.9	1189.9	974.6	778.3	638.7	560.6	529.9	506.2	499.1
35°	6964.2	3896.1	1667.7	1102.3	868.2	664.7	548.8	492.0	461.3	447.1	442.4
37.5°	7188.9	3699.7	1443.0	1012.5	761.7	574.8	480.2	440.0	411.6	397.4	392.7
40°	7550.8	3600.4	1253.7	915.5	657.6	506.2	435.3	397.4	366.7	345.4	340.6
42.5°	8083.1	3614.6	1121.3	818.5	574.8	451.8	392.7	347.7	314.6	295.7	291.0
45°	8728.9	3718.6	1029.0	723.9	506.2	409.2	345.4	298.1	267.3	250.7	246.0
47.5°	9429.1	3886.6	953.3	638.7	451.8	369.0	298.1	248.4	222.4	208.2	205.8
50°	10167.1	4049.8	875.3	555.9	404.5	328.8	250.7	205.8	184.5	172.7	168.0
52.5°	10914.6	4239.1	804.3	480.2	364.3	281.5	208.2	168.0	151.4	141.9	137.2
55°	11718.9	4381.0	735.7	421.1	324.1	238.9	172.7	139.6	125.4	113.5	111.2
57.5°	12665.1	4601.0	664.7	364.3	276.8	198.7	141.9	111.2	99.4	87.5	85.2
60°	13942.5	4858.8	589.0	321.7	227.1	163.2	115.9	89.9	75.7	66.2	63.9
62.5°	15626.8	5145.1	494.4	281.5	184.5	132.5	92.3	71.0	54.4	42.6	42.6
65°	17762.9	5611.1	404.5	236.6	151.4	108.8	71.0	52.0	30.8	18.9	18.9
67.5°	19009.6	5691.5	326.4	194.0	123.0	92.3	59.1	35.5	9.5	2.4	0.0
69°	18609.8	5225.5	276.8	165.6	106.4	87.5	54.4	26.0	4.7	0.0	0.0
70°	17857.5	4778.4	243.7	146.7	97.0	82.8	52.0	18.9	4.7	0.0	0.0
72.5°	14756.3	3401.7	184.5	108.8	71.0	73.3	47.3	11.8	4.7	0.0	0.0
75°	10749.1	2067.5	132.5	75.7	44.9	54.4	33.1	4.7	2.4	0.0	0.0
77.5°	5980.1	974.6	82.8	42.6	28.4	33.1	16.6	0.0	0.0	0.0	0.0
80°	1942.1	264.9	37.8	23.7	16.6	18.9	7.1	0.0	0.0	0.0	0.0
82.5°	359.6	75.7	21.3	11.8	4.7	4.7	0.0	0.0	0.0	0.0	0.0
85°	78.1	30.8	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.0	9.5	2.4	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)