

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: P321513

Luminaire Tested: **GAN-SA9A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26797 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

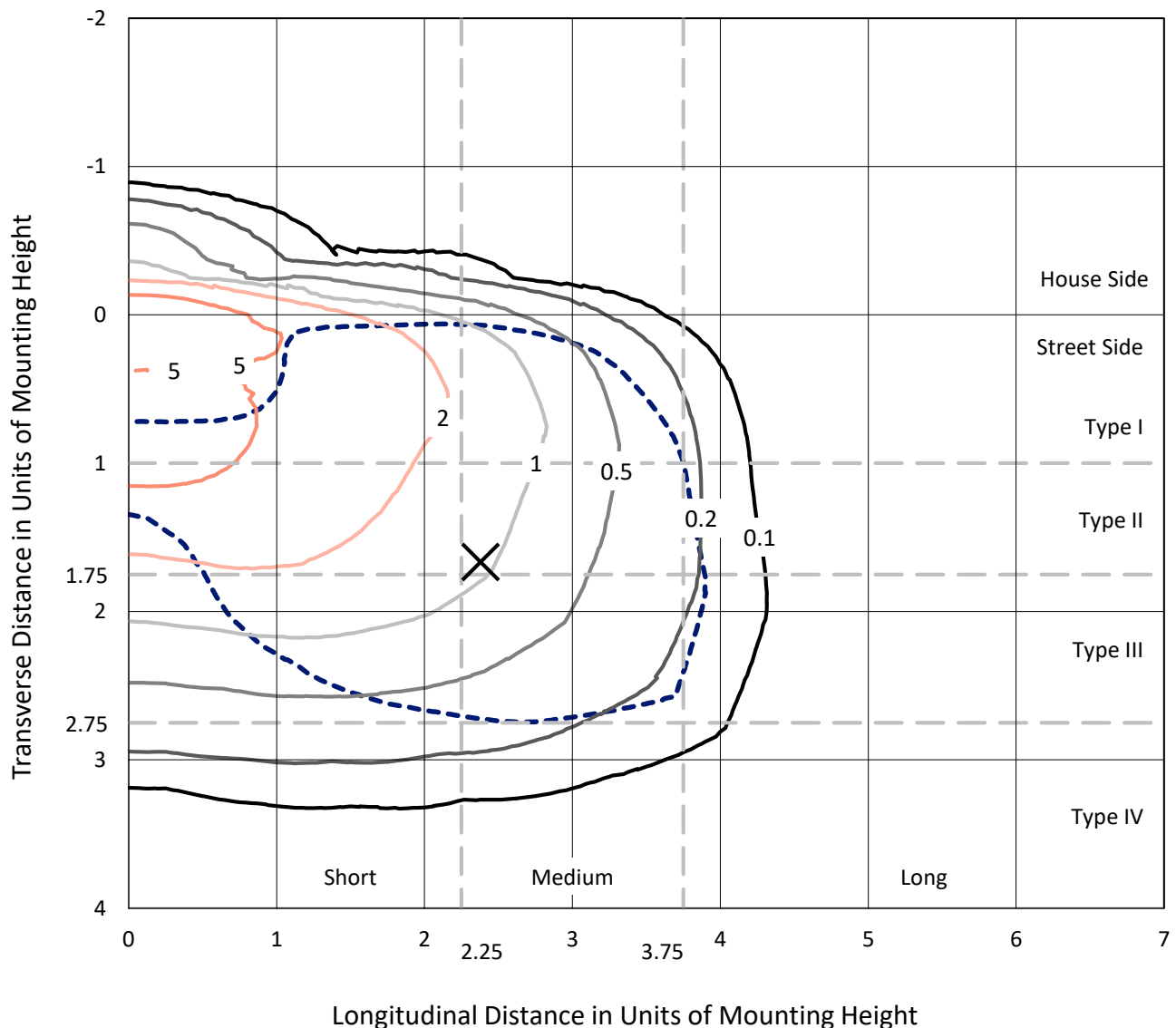
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321513
 CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

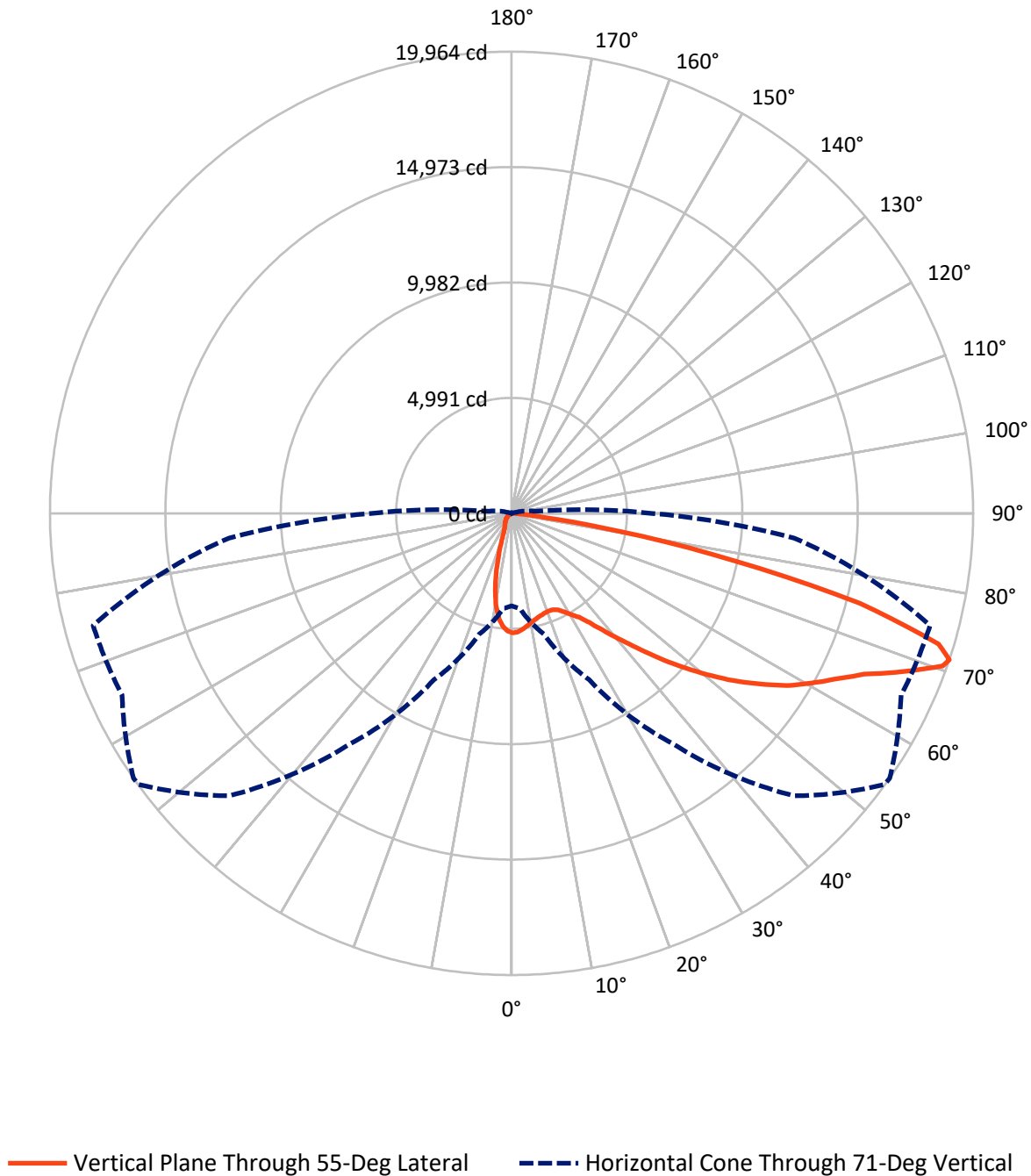
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321513
CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321513

CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.6	0.0	2121.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	24675.4	0.0	24675.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	26797.0	0.0	26797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	1.6
10°-20°	994.8	3.7
20°-30°	1598.6	6.0
30°-40°	2716.1	10.1
40°-50°	4215.8	15.7
50°-60°	5668.0	21.2
60°-70°	6933.8	25.9
70°-80°	4054.0	15.1
80°-90°	175.2	0.7
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°	26797.0	100.0
0°-180°	26797.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321513

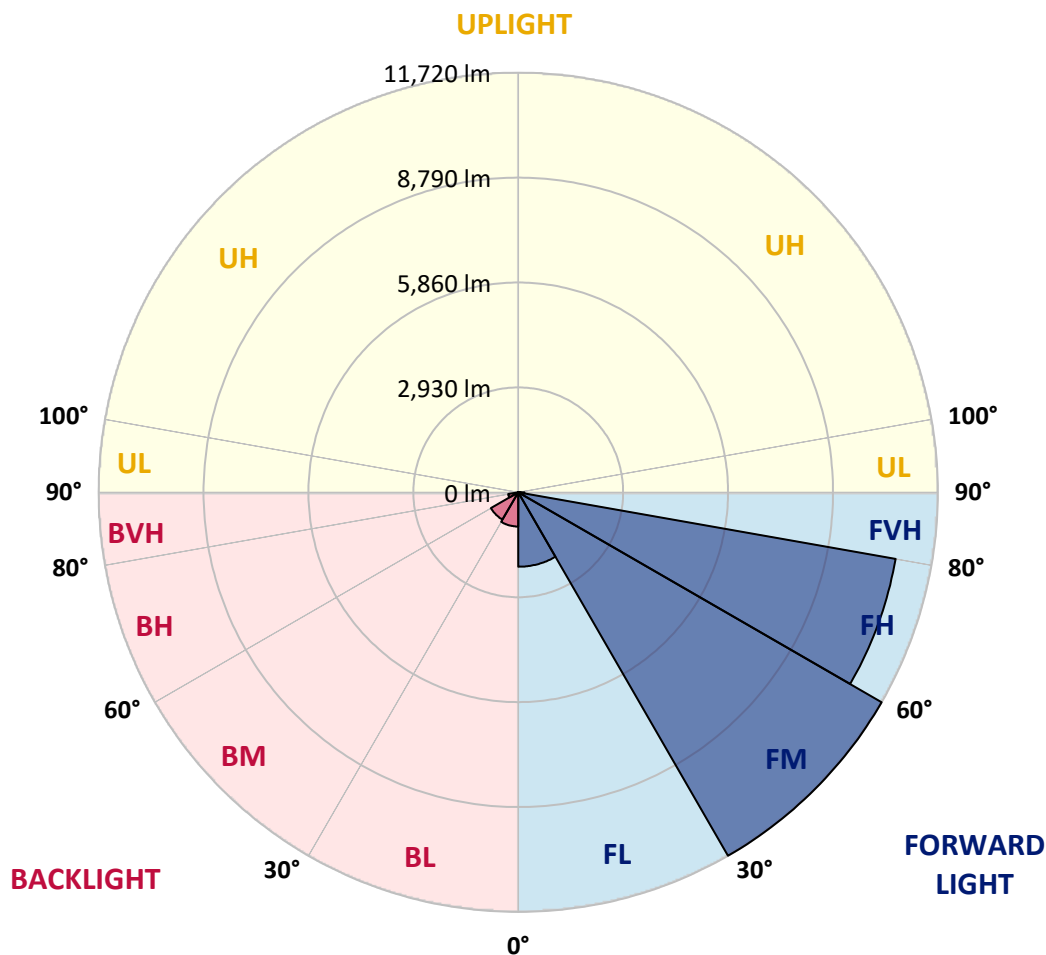
CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.1	7.8			
FM	(30°-60°)	11720.2	43.7			
FH	(60°-80°)	10703.6	39.9			G4/12000
FVH	(80°-90°)	172.5	0.6			G2/225
BL	(0°-30°)	954.9	3.6	B2/1000		
BM	(30°-60°)	879.6	3.3	B1/1000		
BH	(60°-80°)	284.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.8	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-G4

Type III Medium





REPORT NUMBER: P321513

CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9
2.5°	5016.3	5022.3	5044.0	5053.6	5076.5	5115.0	5134.2	5135.4	5166.7	5178.7	5188.4
5°	4661.3	4697.4	4733.5	4772.0	4841.8	4934.5	5025.9	5034.3	5135.4	5210.0	5249.7
7.5°	4355.7	4388.2	4431.5	4492.9	4591.5	4737.1	4890.0	4908.0	5099.3	5269.0	5358.0
10°	4041.7	4068.1	4130.7	4221.0	4356.9	4551.8	4757.6	4787.7	5066.8	5348.4	5504.8
12.5°	3706.0	3721.6	3797.4	3927.4	4127.1	4375.0	4645.7	4685.4	5046.4	5439.8	5678.1
15°	3450.9	3458.1	3530.3	3665.1	3893.7	4216.1	4559.1	4607.2	5051.2	5549.3	5867.0
17.5°	3385.9	3389.5	3428.0	3520.7	3722.8	4074.2	4490.5	4549.4	5065.6	5656.4	6057.1
20°	3649.4	3624.1	3584.4	3570.0	3656.6	3988.7	4449.6	4515.7	5084.9	5751.5	6227.9
22.5°	4372.6	4298.0	4133.1	3912.9	3779.4	3994.7	4460.4	4526.6	5146.2	5868.2	6425.3
25°	5445.8	5342.4	5062.0	4628.8	4212.5	4168.0	4550.6	4618.0	5265.4	6007.8	6614.2
27.5°	6667.1	6564.9	6221.9	5603.5	4893.6	4510.9	4757.6	4820.2	5442.2	6131.7	6758.6
30°	7836.7	7807.8	7403.5	6700.8	5750.3	5066.8	5024.7	5077.7	5573.4	6206.3	6872.9
32.5°	8828.1	8782.4	8457.5	7774.1	6730.9	5734.6	5338.8	5354.4	5672.1	6302.5	7022.1
35°	9747.4	9690.9	9405.7	8759.6	7736.8	6550.4	5822.5	5799.6	5887.4	6496.3	7238.7
37.5°	10550.0	10601.7	10285.3	9670.4	8639.2	7398.7	6474.6	6406.0	6224.3	6811.5	7552.7
40°	11221.4	11221.4	11056.5	10544.0	9613.9	8275.9	7212.2	7122.0	6730.9	7297.6	7951.0
42.5°	11463.2	11515.0	11576.3	11286.4	10486.2	9187.9	8034.0	7940.2	7444.4	7987.1	8453.9
45°	11477.7	11559.5	11873.5	11872.3	11274.3	10093.9	8960.5	8916.0	8358.9	8872.7	9077.2
47.5°	11274.3	11376.6	11894.0	12187.6	11898.8	10937.4	9973.6	9918.3	9433.4	9958.0	9729.4
50°	10960.3	11073.4	11675.0	12311.5	12323.5	11671.4	11040.9	10957.9	10616.1	11198.5	10403.2
52.5°	10398.4	10617.4	11478.9	12340.4	12602.7	12305.5	12056.4	12020.3	11939.7	12393.3	10939.8
55°	9196.3	9439.4	10986.7	12350.0	12861.4	12867.4	13008.2	13017.8	13180.2	13509.9	11339.3
57.5°	8628.4	8765.6	10127.6	12395.7	13245.2	13505.1	13978.0	14052.6	14304.1	14570.0	11795.3
60°	8271.0	8433.5	9704.1	12333.2	13848.0	14341.4	14876.8	14902.1	15171.6	15663.7	12412.6
62.5°	7985.9	8145.9	9437.0	12092.5	14525.5	15347.3	15755.2	15757.6	15959.7	16966.8	13114.1
65°	7282.0	7416.7	8896.7	11821.8	14973.1	16342.3	16775.5	16759.9	16924.7	18340.9	13928.7
67.5°	6264.0	6367.5	7793.4	10795.4	14804.6	17247.2	18315.7	18263.9	18064.2	19528.5	14248.7
70°	4843.0	4880.3	6142.5	8996.6	13226.0	17594.9	19804.1	19777.6	18763.3	19315.5	13075.6
71°	4003.2	4125.9	5413.4	7940.2	12168.3	17273.7	19948.4	19964.1	18587.6	18735.6	12268.2
72.5°	2324.7	2429.3	3923.8	6098.0	10331.0	15933.2	19200.0	19313.1	17767.0	17041.4	10479.0
75°	498.1	533.0	1454.7	2951.5	5682.9	11167.2	15154.8	15557.8	14480.9	11593.2	6315.8
77.5°	346.5	374.2	623.3	1339.2	1878.3	5518.0	9414.1	9868.9	8651.3	4356.9	2021.4
80°	274.3	305.6	486.1	661.8	507.8	1779.6	4409.9	4687.8	2885.4	972.2	340.5
82.5°	152.8	181.7	379.0	357.4	194.9	338.1	1234.5	1395.8	577.6	196.1	80.6
85°	44.5	54.1	244.3	259.9	83.0	65.0	210.6	261.1	109.5	51.7	36.1
87.5°	0.0	0.0	117.9	99.9	24.1	9.6	19.3	21.7	21.7	21.7	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321513

CATALOG NUMBER: GAN-SA9A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9	5167.9
2.5°	5188.4	5196.8	5166.7	5127.0	5084.9	5033.1	4979.0	4936.9	4935.7	4915.2	4894.8
5°	5252.1	5247.3	5164.3	5037.9	4888.7	4733.5	4585.5	4418.3	4362.9	4294.3	4271.5
7.5°	5370.0	5336.4	5160.7	4883.9	4556.7	4231.8	3896.1	3558.0	3413.6	3283.6	3260.8
10°	5518.0	5454.3	5137.8	4652.9	4052.5	3453.3	2946.7	2487.1	2284.9	2129.7	2122.5
12.5°	5672.1	5574.6	5074.0	4304.0	3391.9	2549.7	1966.1	1513.7	1345.2	1236.9	1246.6
15°	5833.3	5687.7	4936.9	3833.5	2639.9	1730.3	1208.0	942.1	874.8	847.1	854.3
17.5°	5998.1	5765.9	4745.6	3266.8	1897.5	1116.6	836.2	761.6	761.6	767.7	770.1
20°	6141.3	5808.0	4464.0	2631.5	1286.3	813.4	731.6	720.7	726.8	736.4	737.6
22.5°	6283.3	5810.4	4097.0	1987.7	900.0	712.3	696.7	691.9	695.5	706.3	707.5
25°	6398.8	5781.5	3637.4	1413.8	718.3	671.4	664.2	661.8	664.2	677.4	677.4
27.5°	6445.7	5676.9	3076.7	993.9	643.7	625.7	623.3	625.7	629.3	638.9	640.1
30°	6450.5	5494.0	2465.4	719.5	583.6	564.3	569.1	577.6	573.9	571.5	573.9
32.5°	6462.6	5282.2	1869.8	592.0	533.0	503.0	496.9	496.9	482.5	474.1	469.3
35°	6502.3	5033.1	1356.0	531.8	481.3	446.4	423.5	397.1	369.4	355.0	351.3
37.5°	6564.9	4772.0	971.0	492.1	435.6	395.9	352.5	305.6	265.9	255.1	255.1
40°	6679.2	4502.5	718.3	460.8	399.5	350.1	285.2	223.8	187.7	181.7	181.7
42.5°	6859.6	4218.5	572.7	433.2	368.2	303.2	217.8	162.4	136.0	132.4	131.2
45°	7047.4	3905.7	500.5	406.7	334.5	249.1	161.2	120.3	104.7	101.1	101.1
47.5°	7235.1	3572.4	465.7	381.4	302.0	193.7	120.3	95.1	87.8	87.8	89.0
50°	7393.9	3224.7	440.4	353.8	259.9	146.8	95.1	80.6	78.2	83.0	84.2
52.5°	7433.6	2883.0	409.1	318.9	208.2	111.9	78.2	71.0	71.0	71.0	71.0
55°	7409.5	2618.2	368.2	275.5	154.0	89.0	67.4	62.6	61.4	61.4	61.4
57.5°	7491.3	2461.8	294.8	214.2	110.7	72.2	59.0	55.3	52.9	51.7	51.7
60°	7656.2	2359.5	210.6	154.0	83.0	60.2	50.5	46.9	43.3	40.9	40.9
62.5°	7875.2	2270.5	156.4	114.3	63.8	48.1	42.1	38.5	33.7	31.3	31.3
65°	8043.6	2111.7	119.1	85.4	48.1	38.5	32.5	31.3	24.1	21.7	20.5
67.5°	7786.1	1762.7	96.3	62.6	36.1	30.1	25.3	24.1	14.4	12.0	12.0
70°	6678.0	1227.3	77.0	45.7	26.5	24.1	20.5	15.6	10.8	9.6	9.6
71°	6055.9	1025.2	69.8	38.5	22.9	22.9	19.3	13.2	9.6	8.4	8.4
72.5°	5030.7	728.0	59.0	30.1	20.5	24.1	20.5	12.0	9.6	8.4	7.2
75°	2920.3	304.4	40.9	20.5	15.6	28.9	26.5	10.8	7.2	6.0	6.0
77.5°	878.4	111.9	22.9	13.2	12.0	25.3	30.1	9.6	3.6	1.2	1.2
80°	160.0	48.1	14.4	8.4	8.4	15.6	22.9	4.8	0.0	0.0	0.0
82.5°	56.6	24.1	8.4	4.8	3.6	7.2	10.8	0.0	0.0	0.0	0.0
85°	32.5	16.8	4.8	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	21.7	4.8	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)