

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: P321511

Luminaire Tested: **GAN-SA7A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321511
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-SA7A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21202 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

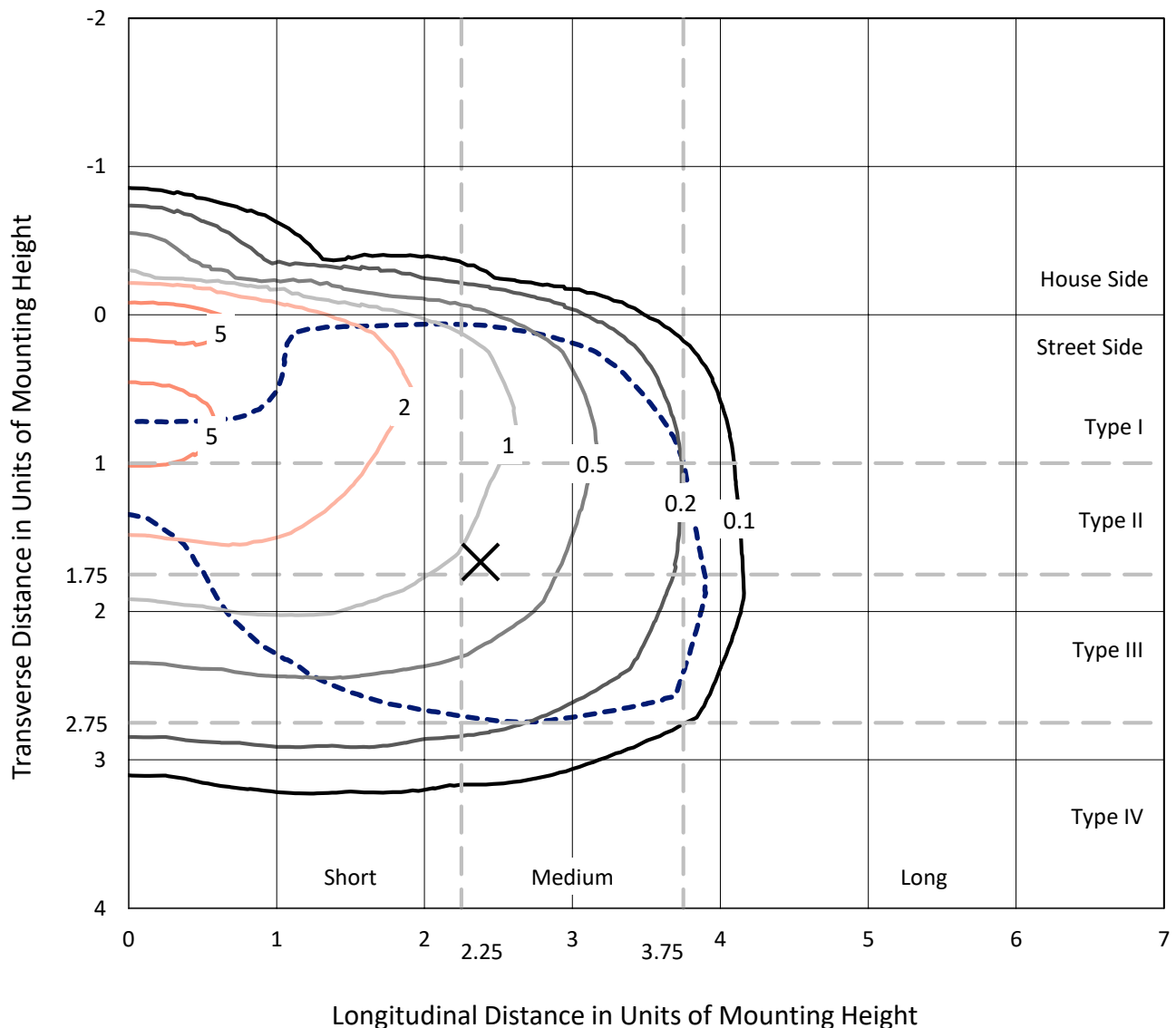
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321511
 CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

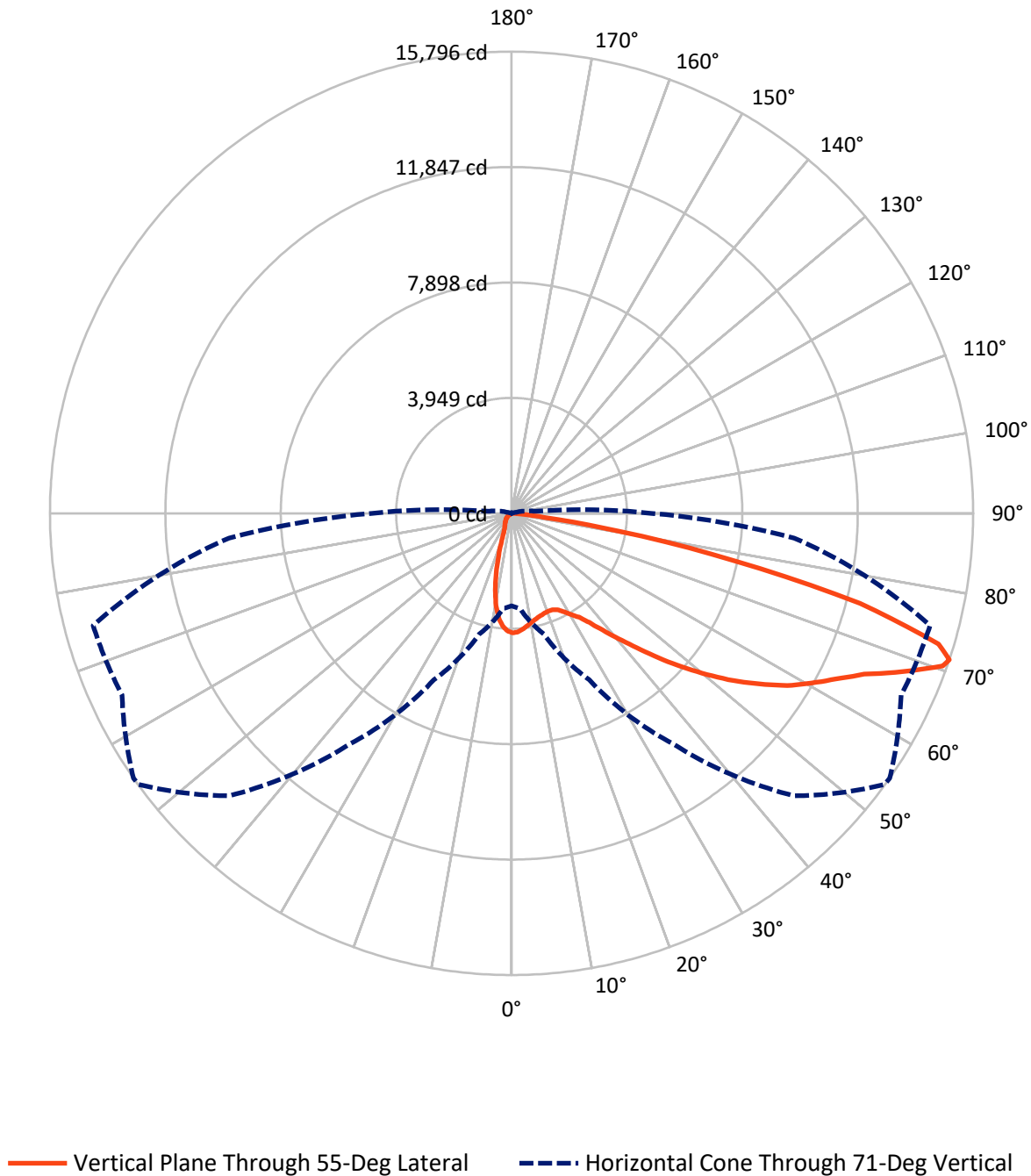
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P321511
CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321511

CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.6	0.0	1678.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	19523.4	0.0	19523.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	21202.0	0.0	21202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.6
10°-20°	787.1	3.7
20°-30°	1264.8	6.0
30°-40°	2149.0	10.1
40°-50°	3335.6	15.7
50°-60°	4484.6	21.2
60°-70°	5486.1	25.9
70°-80°	3207.6	15.1
80°-90°	138.6	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°	21202.0	100.0
0°-180°	21202.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321511

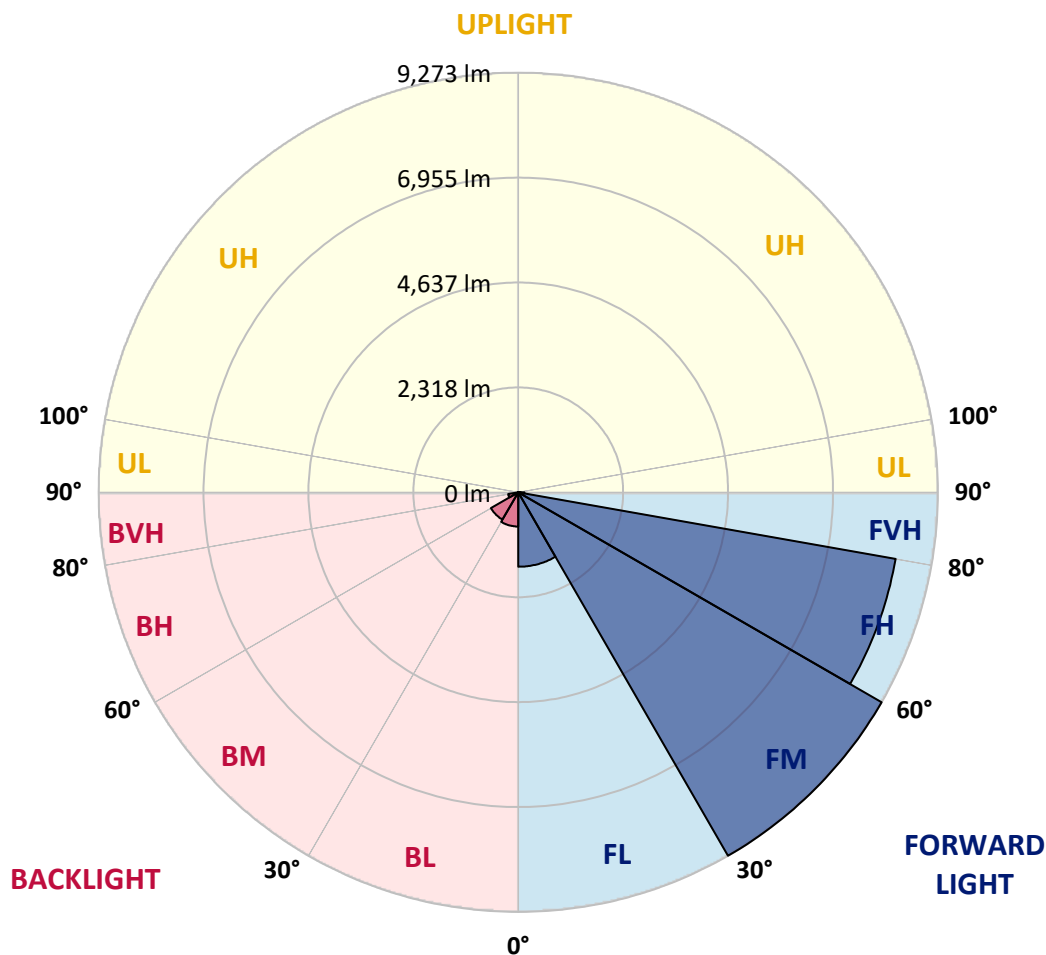
CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.0	7.8			
FM	(30°-60°)	9273.1	43.7			
FH	(60°-80°)	8468.8	39.9			G4/12000
FVH	(80°-90°)	136.5	0.6			G2/225
BL	(0°-30°)	755.6	3.6	B2/1000		
BM	(30°-60°)	696.0	3.3	B1/1000		
BH	(60°-80°)	224.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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: P321511

CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9
2.5°	3968.9	3973.7	3990.8	3998.4	4016.5	4047.0	4062.2	4063.2	4087.9	4097.4	4105.1
5°	3688.1	3716.6	3745.2	3775.7	3830.9	3904.2	3976.5	3983.2	4063.2	4122.2	4153.6
7.5°	3446.3	3472.0	3506.3	3554.8	3632.9	3748.1	3869.0	3883.2	4034.6	4168.9	4239.3
10°	3197.8	3218.7	3268.2	3339.7	3447.2	3601.5	3764.2	3788.0	4008.9	4231.7	4355.4
12.5°	2932.2	2944.6	3004.5	3107.4	3265.4	3461.5	3675.7	3707.1	3992.7	4304.0	4492.5
15°	2730.4	2736.1	2793.2	2899.8	3080.7	3335.8	3607.2	3645.2	3996.5	4390.7	4642.0
17.5°	2679.0	2681.8	2712.3	2785.6	2945.5	3223.5	3552.9	3599.5	4008.0	4475.4	4792.4
20°	2887.4	2867.5	2836.0	2824.6	2893.2	3155.9	3520.5	3572.9	4023.2	4550.6	4927.6
22.5°	3459.6	3400.6	3270.2	3095.9	2990.3	3160.7	3529.1	3581.5	4071.7	4643.0	5083.7
25°	4308.8	4226.9	4005.1	3662.4	3333.0	3297.8	3600.5	3653.8	4166.0	4753.4	5233.2
27.5°	5275.1	5194.2	4922.8	4433.5	3871.8	3569.1	3764.2	3813.8	4305.9	4851.4	5347.4
30°	6200.4	6177.6	5857.7	5301.7	4549.7	4008.9	3975.6	4017.5	4409.7	4910.5	5437.9
32.5°	6984.9	6948.7	6691.7	6150.9	5325.5	4537.3	4224.1	4236.4	4487.8	4986.6	5555.9
35°	7712.2	7667.5	7441.9	6930.6	6121.4	5182.7	4606.8	4588.7	4658.2	5139.9	5727.3
37.5°	8347.2	8388.2	8137.8	7651.3	6835.4	5853.9	5122.8	5068.5	4924.7	5389.3	5975.8
40°	8878.4	8878.4	8748.0	8342.5	7606.6	6547.9	5706.3	5634.9	5325.5	5773.9	6290.9
42.5°	9069.8	9110.7	9159.3	8929.9	8296.8	7269.5	6356.6	6282.3	5890.1	6319.4	6688.8
45°	9081.2	9146.0	9394.4	9393.5	8920.3	7986.4	7089.6	7054.4	6613.6	7020.1	7182.0
47.5°	8920.3	9001.3	9410.6	9642.9	9414.4	8653.8	7891.2	7847.4	7463.8	7878.8	7698.0
50°	8671.9	8761.3	9237.4	9741.0	9750.5	9234.5	8735.6	8670.0	8399.6	8860.4	8231.1
52.5°	8227.3	8400.5	9082.2	9763.8	9971.3	9736.2	9539.1	9510.6	9446.8	9805.7	8655.7
55°	7276.2	7468.5	8692.8	9771.4	10176.0	10180.8	10292.2	10299.8	10428.3	10689.2	8971.7
57.5°	6826.9	6935.4	8013.1	9807.6	10479.7	10685.4	11059.5	11118.5	11317.5	11527.9	9332.6
60°	6544.1	6672.6	7678.0	9758.1	10956.7	11347.0	11770.6	11790.6	12003.9	12393.3	9820.9
62.5°	6318.5	6445.1	7466.6	9567.7	11492.7	12142.9	12465.6	12467.5	12627.5	13424.3	10376.0
65°	5761.6	5868.2	7039.2	9353.5	11846.8	12930.2	13272.9	13260.5	13391.0	14511.5	11020.5
67.5°	4956.2	5038.0	6166.2	8541.4	11713.5	13646.1	14491.5	14450.6	14292.5	15451.1	11273.7
70°	3831.8	3861.4	4860.0	7118.2	10464.5	13921.2	15669.1	15648.2	14845.6	15282.6	10345.5
71°	3167.3	3264.4	4283.1	6282.3	9627.7	13667.1	15783.4	15795.7	14706.6	14823.7	9706.7
72.5°	1839.3	1922.1	3104.5	4824.8	8174.0	12606.5	15191.2	15280.7	14057.4	13483.3	8291.1
75°	394.1	421.7	1151.0	2335.3	4496.3	8835.6	11990.6	12309.5	11457.4	9172.6	4997.1
77.5°	274.2	296.1	493.1	1059.6	1486.1	4365.9	7448.5	7808.4	6844.9	3447.2	1599.4
80°	217.1	241.8	384.6	523.6	401.7	1408.0	3489.1	3709.0	2282.9	769.2	269.4
82.5°	120.9	143.8	299.9	282.7	154.2	267.5	976.8	1104.3	457.0	155.2	63.8
85°	35.2	42.8	193.3	205.6	65.7	51.4	166.6	206.6	86.6	40.9	28.6
87.5°	0.0	0.0	93.3	79.0	19.0	7.6	15.2	17.1	17.1	17.1	19.0
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: P321511

CATALOG NUMBER: GAN-SA7A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9	4088.9
2.5°	4105.1	4111.7	4087.9	4056.5	4023.2	3982.3	3939.4	3906.1	3905.1	3889.0	3872.8
5°	4155.5	4151.7	4086.0	3986.1	3868.0	3745.2	3628.1	3495.8	3452.0	3397.7	3379.6
7.5°	4248.8	4222.2	4083.2	3864.2	3605.3	3348.2	3082.6	2815.1	2700.9	2598.0	2579.9
10°	4365.9	4315.5	4065.1	3681.4	3206.4	2732.3	2331.5	1967.8	1807.9	1685.1	1679.3
12.5°	4487.8	4410.7	4014.6	3405.3	2683.7	2017.3	1555.6	1197.6	1064.3	978.7	986.3
15°	4615.3	4500.1	3906.1	3033.1	2088.7	1369.0	955.8	745.4	692.1	670.2	675.9
17.5°	4745.8	4562.0	3754.7	2584.7	1501.3	883.5	661.6	602.6	602.6	607.4	609.3
20°	4859.1	4595.4	3532.0	2082.0	1017.7	643.6	578.8	570.3	575.0	582.6	583.6
22.5°	4971.4	4597.3	3241.6	1572.7	712.1	563.6	551.2	547.4	550.3	558.8	559.8
25°	5062.8	4574.4	2877.9	1118.6	568.3	531.2	525.5	523.6	525.5	536.0	536.0
27.5°	5099.9	4491.6	2434.3	786.4	509.3	495.0	493.1	495.0	497.9	505.5	506.5
30°	5103.7	4346.9	1950.7	569.3	461.7	446.5	450.3	457.0	454.1	452.2	454.1
32.5°	5113.2	4179.3	1479.4	468.4	421.7	397.9	393.2	393.2	381.8	375.1	371.3
35°	5144.7	3982.3	1072.9	420.8	380.8	353.2	335.1	314.2	292.3	280.8	278.0
37.5°	5194.2	3775.7	768.3	389.4	344.6	313.2	278.9	241.8	210.4	201.8	201.8
40°	5284.6	3562.4	568.3	364.6	316.1	277.0	225.6	177.1	148.5	143.8	143.8
42.5°	5427.4	3337.7	453.2	342.7	291.3	239.9	172.3	128.5	107.6	104.7	103.8
45°	5575.9	3090.2	396.0	321.8	264.7	197.1	127.6	95.2	82.8	80.0	80.0
47.5°	5724.4	2826.5	368.4	301.8	239.0	153.3	95.2	75.2	69.5	69.5	70.4
50°	5850.1	2551.4	348.4	279.9	205.6	116.1	75.2	63.8	61.9	65.7	66.6
52.5°	5881.5	2281.0	323.7	252.3	164.7	88.5	61.9	56.2	56.2	56.2	56.2
55°	5862.5	2071.6	291.3	218.0	121.9	70.4	53.3	49.5	48.6	48.6	48.6
57.5°	5927.2	1947.8	233.2	169.5	87.6	57.1	46.6	43.8	41.9	40.9	40.9
60°	6057.6	1866.9	166.6	121.9	65.7	47.6	40.0	37.1	34.3	32.4	32.4
62.5°	6230.9	1796.4	123.8	90.4	50.5	38.1	33.3	30.5	26.7	24.8	24.8
65°	6364.2	1670.8	94.2	67.6	38.1	30.5	25.7	24.8	19.0	17.1	16.2
67.5°	6160.5	1394.7	76.2	49.5	28.6	23.8	20.0	19.0	11.4	9.5	9.5
70°	5283.7	971.0	60.9	36.2	20.9	19.0	16.2	12.4	8.6	7.6	7.6
71°	4791.5	811.1	55.2	30.5	18.1	18.1	15.2	10.5	7.6	6.7	6.7
72.5°	3980.4	576.0	46.6	23.8	16.2	19.0	16.2	9.5	7.6	6.7	5.7
75°	2310.5	240.9	32.4	16.2	12.4	22.8	20.9	8.6	5.7	4.8	4.8
77.5°	695.0	88.5	18.1	10.5	9.5	20.0	23.8	7.6	2.9	1.0	1.0
80°	126.6	38.1	11.4	6.7	6.7	12.4	18.1	3.8	0.0	0.0	0.0
82.5°	44.7	19.0	6.7	3.8	2.9	5.7	8.6	0.0	0.0	0.0	0.0
85°	25.7	13.3	3.8	1.9	0.0	1.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.1	3.8	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)