

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: P321523

Luminaire Tested: **GAN-SA9B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321523
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-SA9B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA 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: 32860 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

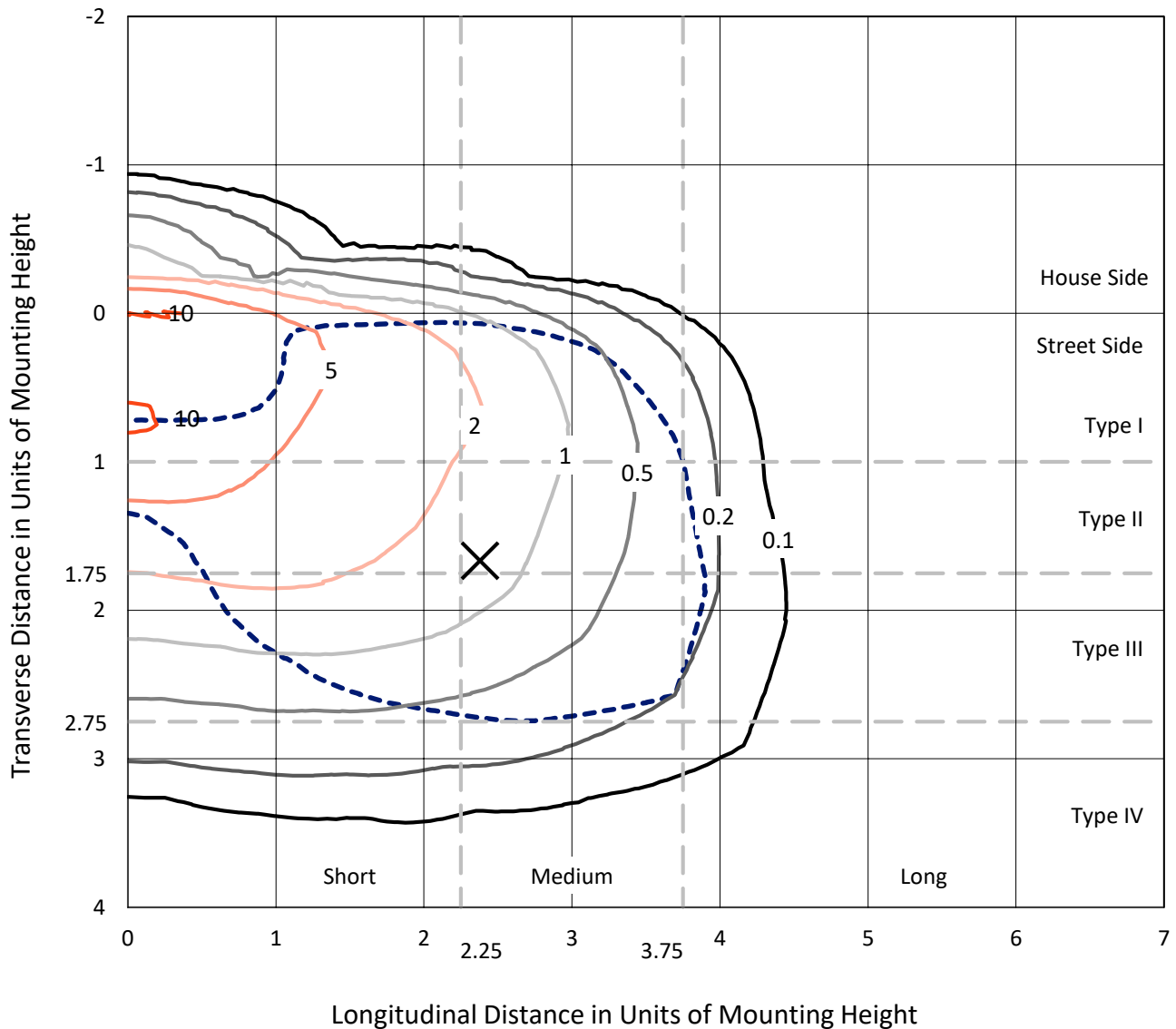
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321523
 CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

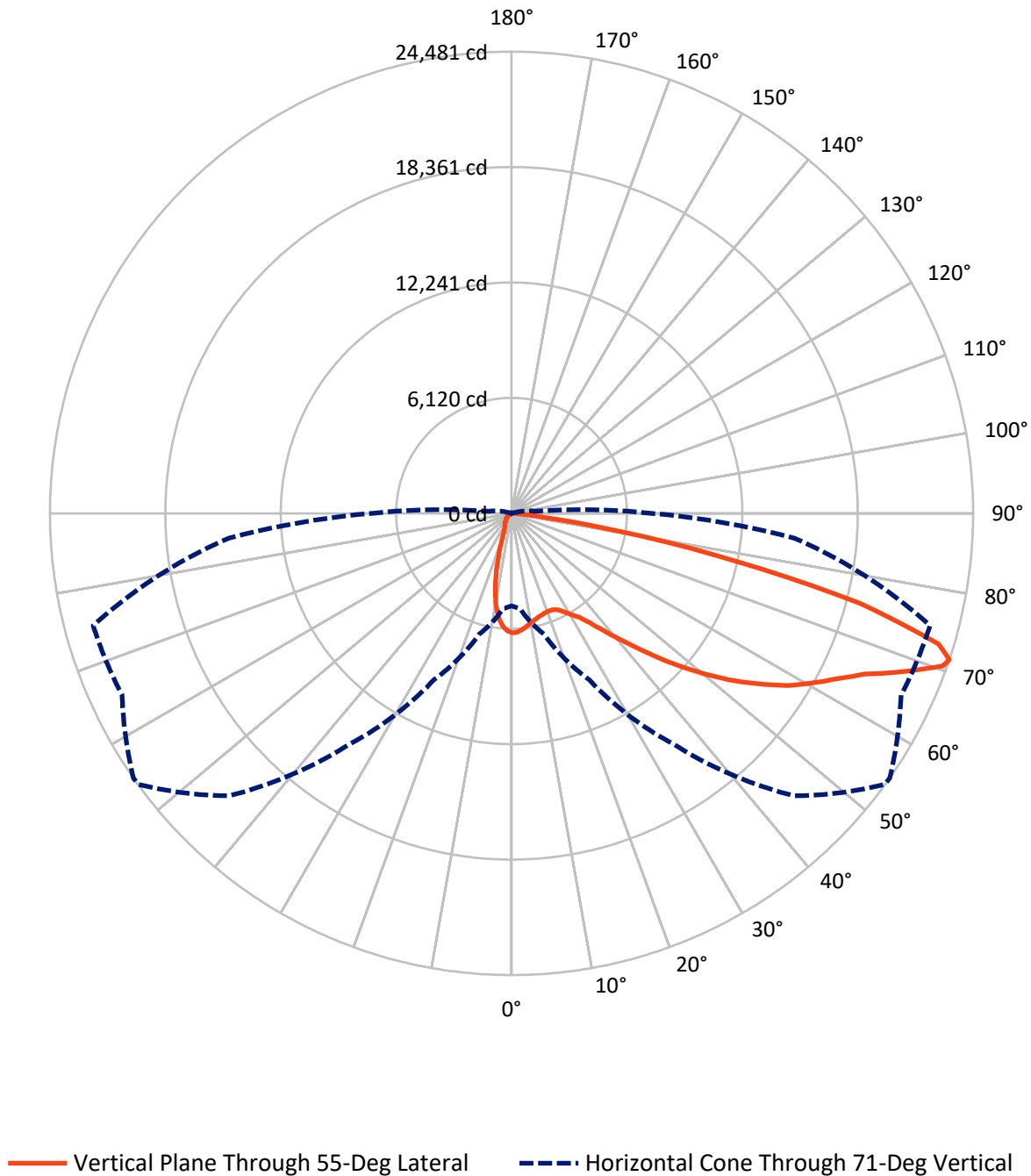
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P321523
CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321523

CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2601.6	0.0	2601.6
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	30258.4	0.0	30258.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	32860.0	0.0	32860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.3	1.6
10°-20°	1219.8	3.7
20°-30°	1960.3	6.0
30°-40°	3330.7	10.1
40°-50°	5169.6	15.7
50°-60°	6950.4	21.2
60°-70°	8502.6	25.9
70°-80°	4971.3	15.1
80°-90°	214.9	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°	32860.0	100.0
0°-180°	32860.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321523

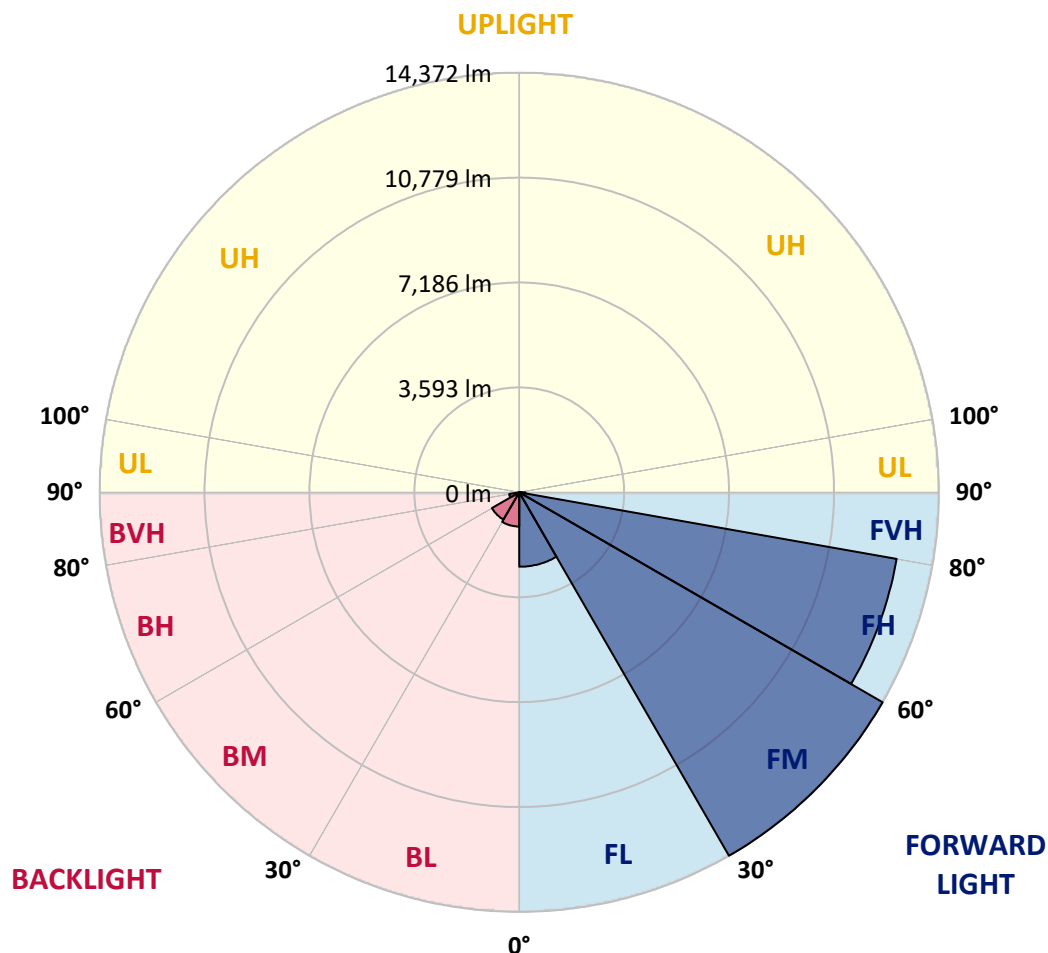
CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2549.5	7.8			
FM	(30°-60°)	14372.0	43.7			
FH	(60°-80°)	13125.4	39.9			G5
FVH	(80°-90°)	211.5	0.6			G2/225
BL	(0°-30°)	1171.0	3.6	B3/2500		
BM	(30°-60°)	1078.7	3.3	B2/2500		
BH	(60°-80°)	348.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.4	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 III Medium



REPORT NUMBER: P321523

CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2
2.5°	6151.3	6158.6	6185.2	6197.0	6225.0	6272.2	6295.9	6297.3	6335.7	6350.4	6362.3
5°	5716.0	5760.3	5804.5	5851.7	5937.3	6050.9	6163.1	6173.4	6297.3	6388.8	6437.5
7.5°	5341.2	5381.1	5434.2	5509.4	5630.4	5808.9	5996.3	6018.5	6253.1	6461.1	6570.3
10°	4956.1	4988.6	5065.3	5176.0	5342.7	5581.7	5834.0	5870.9	6213.2	6558.5	6750.3
12.5°	4544.5	4563.6	4656.6	4816.0	5060.9	5364.8	5696.8	5745.5	6188.1	6670.6	6962.8
15°	4231.7	4240.5	4329.0	4494.3	4774.6	5170.1	5590.6	5649.6	6194.0	6804.9	7194.4
17.5°	4152.0	4156.4	4203.6	4317.2	4565.1	4996.0	5506.5	5578.8	6211.8	6936.2	7427.5
20°	4475.1	4444.1	4395.4	4377.7	4484.0	4891.2	5456.3	5537.5	6235.4	7052.8	7637.1
22.5°	5361.9	5270.4	5068.3	4798.2	4634.5	4898.6	5469.6	5550.7	6310.6	7195.9	7879.0
25°	6678.0	6551.1	6207.3	5676.2	5165.6	5111.0	5580.2	5662.9	6456.7	7367.1	8110.7
27.5°	8175.6	8050.2	7629.7	6871.3	6000.8	5531.6	5834.0	5910.8	6673.6	7519.0	8287.7
30°	9609.8	9574.4	9078.6	8216.9	7051.3	6213.2	6161.6	6226.5	6834.4	7610.5	8427.9
32.5°	10825.6	10769.5	10371.1	9533.0	8253.8	7032.1	6546.7	6565.9	6955.4	7728.5	8610.9
35°	11952.8	11883.5	11533.8	10741.5	9487.3	8032.5	7139.8	7111.8	7219.5	7966.1	8876.5
37.5°	12937.0	13000.4	12612.4	11858.4	10593.9	9072.7	7939.5	7855.4	7632.6	8352.7	9261.6
40°	13760.3	13760.3	13558.1	12929.6	11789.1	10148.3	8844.0	8733.3	8253.8	8948.8	9749.9
42.5°	14056.9	14120.3	14195.6	13840.0	12858.8	11266.7	9851.8	9736.7	9128.8	9794.2	10366.7
45°	14074.6	14174.9	14560.0	14558.5	13825.2	12377.8	10987.9	10933.3	10250.1	10880.2	11131.0
47.5°	13825.2	13950.6	14585.1	14945.1	14591.0	13412.1	12230.2	12162.3	11567.7	12211.0	11930.7
50°	13440.1	13578.8	14316.5	15097.1	15111.8	14312.1	13539.0	13437.2	13018.1	13732.3	12757.0
52.5°	12751.1	13019.6	14076.0	15132.5	15454.1	15089.7	14784.3	14740.0	14641.1	15197.4	13415.0
55°	11277.1	11575.1	13472.6	15144.3	15771.4	15778.7	15951.4	15963.2	16162.4	16566.6	13904.9
57.5°	10580.6	10748.8	12419.1	15200.4	16242.0	16560.7	17140.6	17232.1	17540.5	17866.5	14464.1
60°	10142.4	10341.6	11899.7	15123.6	16981.3	17586.2	18242.8	18273.8	18604.3	19207.7	15221.0
62.5°	9792.7	9989.0	11572.2	14828.5	17811.9	18819.7	19319.9	19322.8	19570.7	20805.7	16081.2
65°	8929.6	9094.8	10909.7	14496.6	18360.8	20039.9	20571.1	20551.9	20754.0	22490.7	17080.1
67.5°	7681.3	7808.2	9556.7	13238.0	18154.3	21149.5	22459.7	22396.2	22151.3	23947.0	17472.6
70°	5938.8	5984.5	7532.3	11032.1	16218.4	21575.9	24284.9	24252.4	23008.6	23685.8	16034.0
71°	4908.9	5059.4	6638.2	9736.7	14921.5	21181.9	24461.9	24481.1	22793.2	22974.6	15044.0
72.5°	2850.6	2979.0	4811.5	7477.7	12668.4	19538.3	23544.2	23682.9	21786.9	20897.2	12849.9
75°	610.8	653.6	1783.9	3619.3	6968.7	13693.9	18583.6	19077.9	17757.4	14216.2	7744.8
77.5°	424.9	458.9	764.3	1642.2	2303.2	6766.5	11544.1	12101.9	10608.7	5342.7	2478.8
80°	336.4	374.8	596.1	811.5	622.7	2182.2	5407.6	5748.5	3538.2	1192.2	417.6
82.5°	187.4	222.8	464.8	438.2	239.0	414.6	1513.8	1711.6	708.2	240.5	98.9
85°	54.6	66.4	299.5	318.7	101.8	79.7	258.2	320.2	134.3	63.4	44.3
87.5°	0.0	0.0	144.6	122.5	29.5	11.8	23.6	26.6	26.6	26.6	29.5
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: P321523

CATALOG NUMBER: GAN-SA9B-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2	6337.2
2.5°	6362.3	6372.6	6335.7	6287.0	6235.4	6171.9	6105.5	6053.9	6052.4	6027.3	6002.2
5°	6440.5	6434.6	6332.7	6177.8	5994.9	5804.5	5623.0	5417.9	5350.1	5266.0	5237.9
7.5°	6585.0	6543.7	6328.3	5989.0	5587.6	5189.2	4777.6	4363.0	4185.9	4026.6	3998.5
10°	6766.5	6688.3	6300.3	5705.7	4969.4	4234.6	3613.4	3049.8	2801.9	2611.6	2602.7
12.5°	6955.4	6835.9	6222.1	5277.8	4159.4	3126.5	2410.9	1856.1	1649.6	1516.8	1528.6
15°	7153.1	6974.6	6053.9	4700.9	3237.2	2121.7	1481.4	1155.3	1072.7	1038.7	1047.6
17.5°	7355.2	7070.5	5819.3	4005.9	2326.8	1369.2	1025.5	934.0	934.0	941.4	944.3
20°	7530.8	7122.1	5474.0	3226.9	1577.3	997.4	897.1	883.8	891.2	903.0	904.5
22.5°	7704.9	7125.1	5024.0	2437.5	1103.7	873.5	854.3	848.4	852.8	866.1	867.6
25°	7846.6	7089.7	4460.4	1733.7	880.9	823.3	814.5	811.5	814.5	830.7	830.7
27.5°	7904.1	6961.3	3772.8	1218.7	789.4	767.2	764.3	767.2	771.7	783.5	785.0
30°	7910.0	6737.0	3023.3	882.3	715.6	692.0	697.9	708.2	703.8	700.9	703.8
32.5°	7924.8	6477.3	2292.9	725.9	653.6	616.7	609.4	609.4	591.7	581.3	575.4
35°	7973.5	6171.9	1662.9	652.2	590.2	547.4	519.4	486.9	453.0	435.3	430.8
37.5°	8050.2	5851.7	1190.7	603.5	534.1	485.4	432.3	374.8	326.1	312.8	312.8
40°	8190.4	5521.2	880.9	565.1	489.9	429.4	349.7	274.4	230.2	222.8	222.8
42.5°	8411.7	5173.0	702.3	531.2	451.5	371.8	267.1	199.2	166.7	162.3	160.8
45°	8641.9	4789.4	613.8	498.7	410.2	305.4	197.7	147.5	128.4	123.9	123.9
47.5°	8872.0	4380.7	571.0	467.7	370.3	237.6	147.5	116.6	107.7	107.7	109.2
50°	9066.8	3954.3	540.0	433.8	318.7	180.0	116.6	98.9	95.9	101.8	103.3
52.5°	9115.5	3535.2	501.7	391.0	255.3	137.2	95.9	87.1	87.1	87.1	87.1
55°	9086.0	3210.6	451.5	337.9	188.9	109.2	82.6	76.7	75.2	75.2	75.2
57.5°	9186.3	3018.8	361.5	262.6	135.7	88.5	72.3	67.9	64.9	63.4	63.4
60°	9388.5	2893.4	258.2	188.9	101.8	73.8	62.0	57.5	53.1	50.2	50.2
62.5°	9657.0	2784.2	191.8	140.2	78.2	59.0	51.6	47.2	41.3	38.4	38.4
65°	9863.6	2589.5	146.1	104.8	59.0	47.2	39.8	38.4	29.5	26.6	25.1
67.5°	9547.8	2161.6	118.0	76.7	44.3	36.9	31.0	29.5	17.7	14.8	14.8
70°	8188.9	1505.0	94.4	56.1	32.5	29.5	25.1	19.2	13.3	11.8	11.8
71°	7426.1	1257.1	85.6	47.2	28.0	28.0	23.6	16.2	11.8	10.3	10.3
72.5°	6169.0	892.7	72.3	36.9	25.1	29.5	25.1	14.8	11.8	10.3	8.9
75°	3581.0	373.3	50.2	25.1	19.2	35.4	32.5	13.3	8.9	7.4	7.4
77.5°	1077.1	137.2	28.0	16.2	14.8	31.0	36.9	11.8	4.4	1.5	1.5
80°	196.2	59.0	17.7	10.3	10.3	19.2	28.0	5.9	0.0	0.0	0.0
82.5°	69.3	29.5	10.3	5.9	4.4	8.9	13.3	0.0	0.0	0.0	0.0
85°	39.8	20.7	5.9	3.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
87.5°	26.6	5.9	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)