

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: P321522

Luminaire Tested: **GAN-SA8B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321522
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-SA8B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29457 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

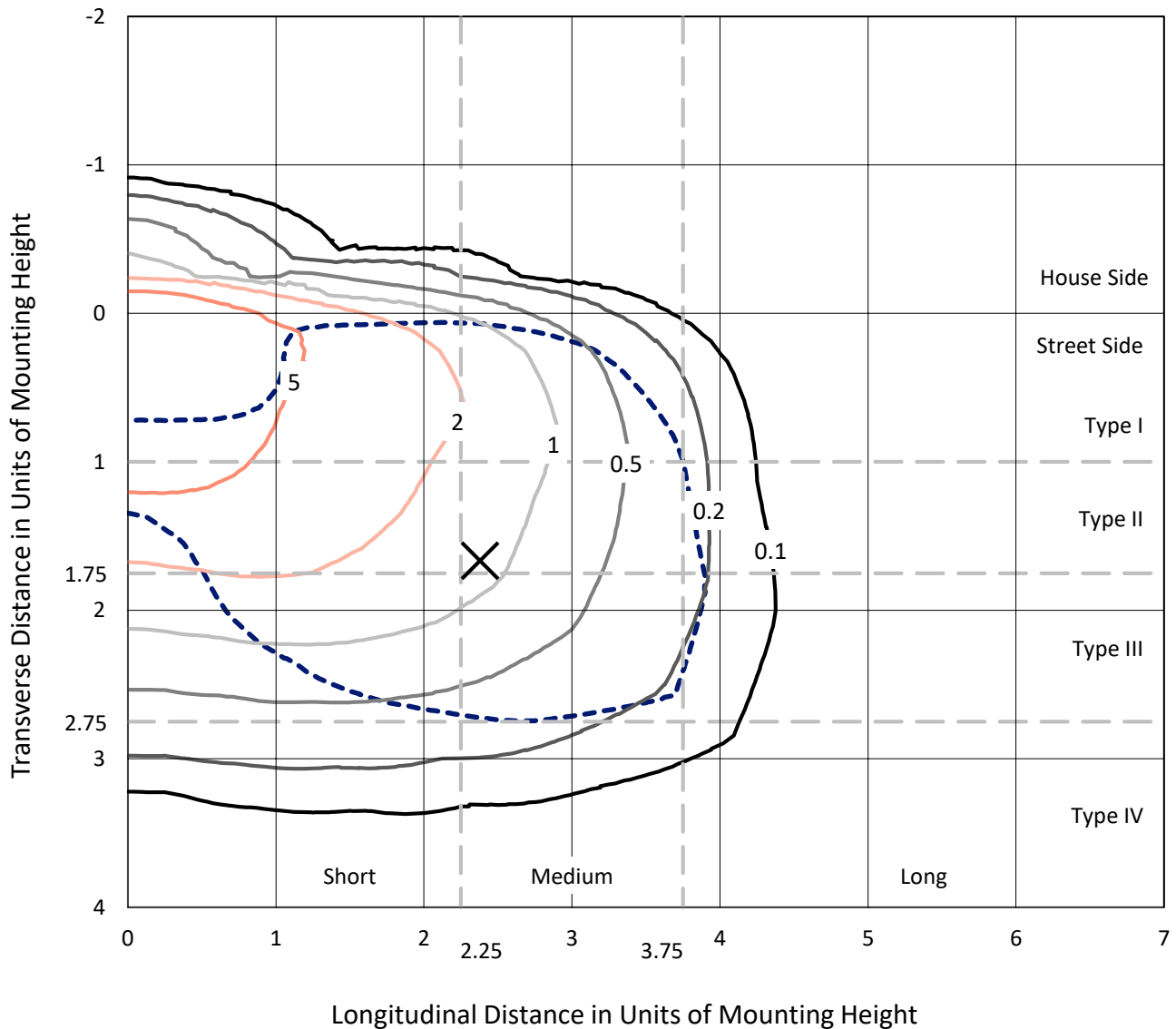
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321522
 CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

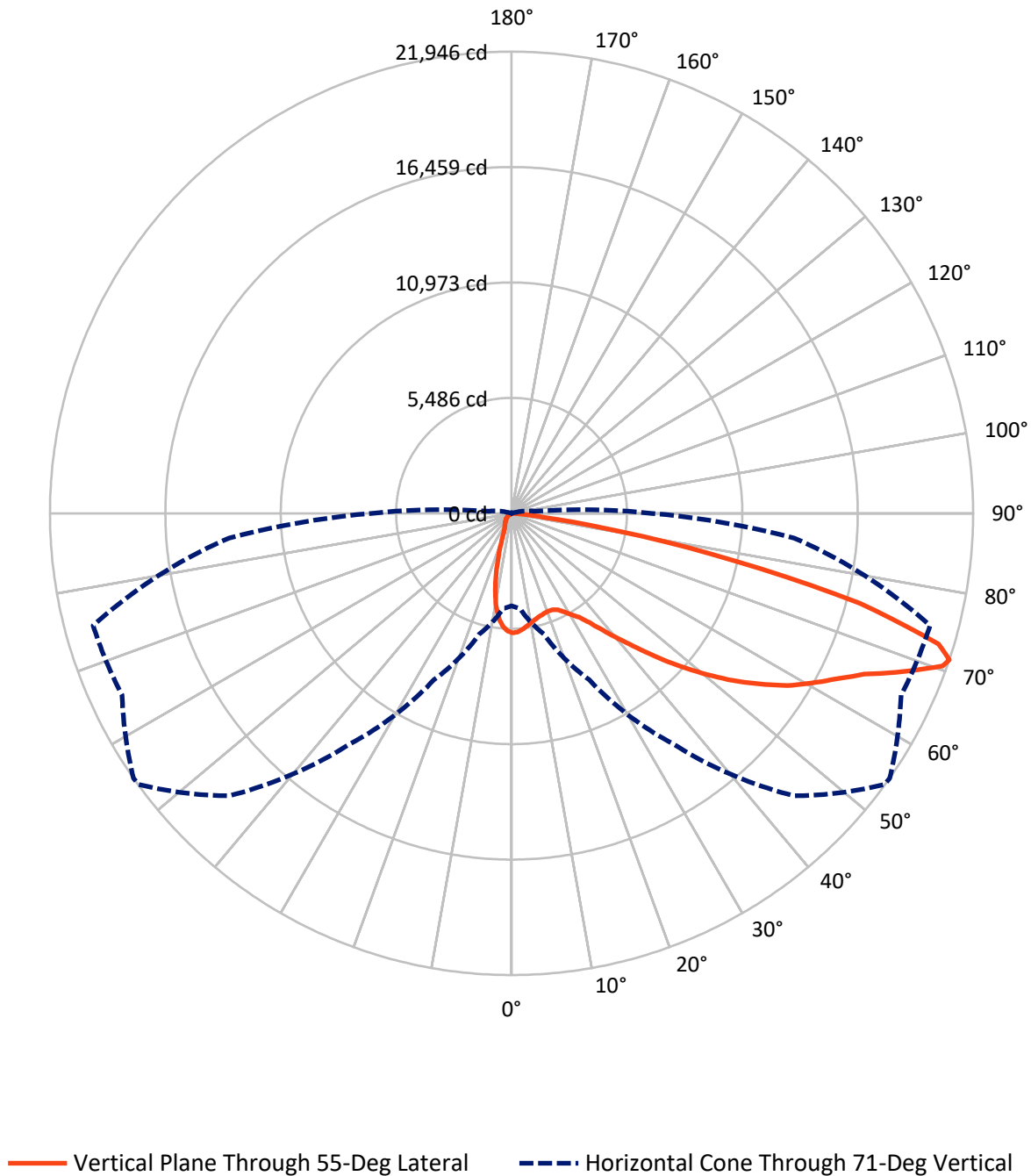
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P321522
CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321522

CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2332.2	0.0	2332.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	27124.8	0.0	27124.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	29457.0	0.0	29457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.4	1.6
10°-20°	1093.5	3.7
20°-30°	1757.3	6.0
30°-40°	2985.7	10.1
40°-50°	4634.3	15.7
50°-60°	6230.6	21.2
60°-70°	7622.1	25.9
70°-80°	4456.5	15.1
80°-90°	192.6	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°	29457.0	100.0
0°-180°	29457.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321522

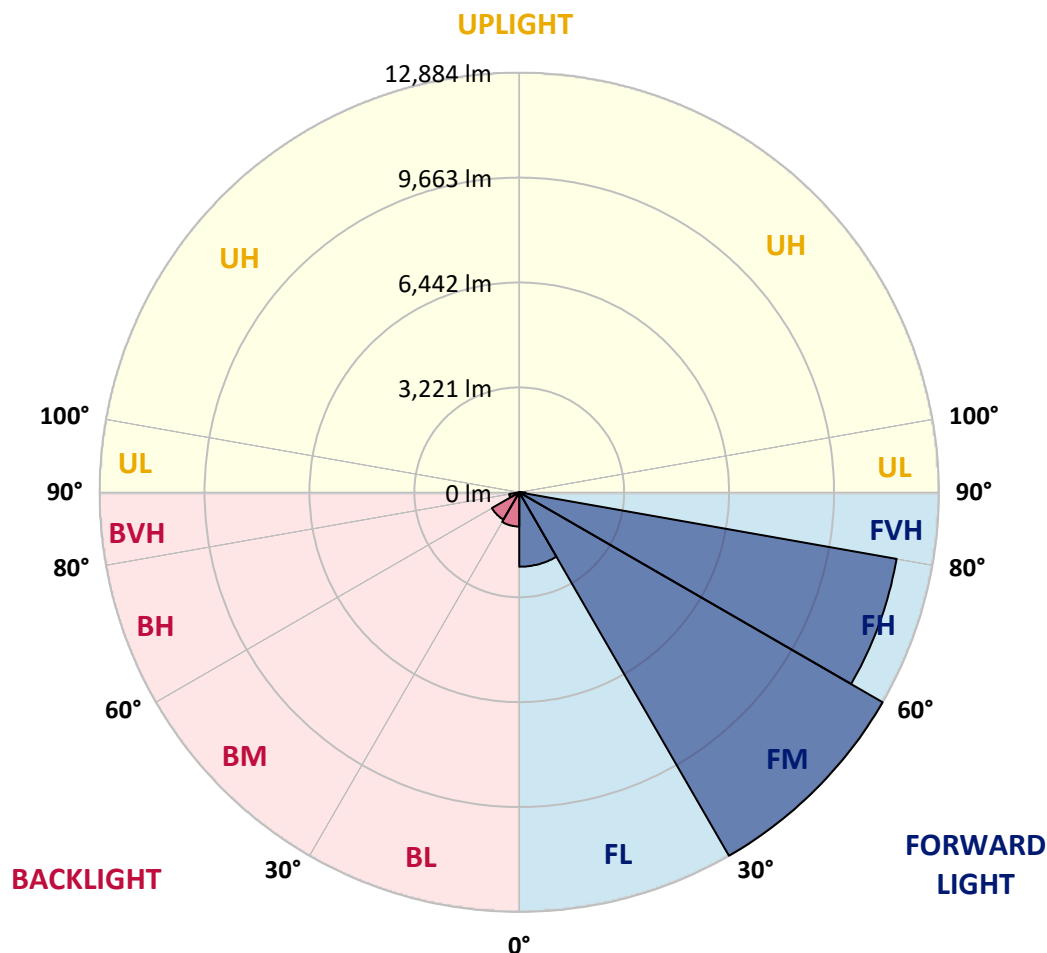
CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2285.5	7.8			
FM	(30°-60°)	12883.6	43.7			
FH	(60°-80°)	11766.1	39.9			G4/12000
FVH	(80°-90°)	189.6	0.6			G2/225
BL	(0°-30°)	1049.7	3.6	B3/2500		
BM	(30°-60°)	967.0	3.3	B1/1000		
BH	(60°-80°)	312.5	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G4

Type III Medium





REPORT NUMBER: P321522

CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9
2.5°	5514.2	5520.8	5544.7	5555.2	5580.4	5622.7	5643.9	5645.2	5679.6	5692.8	5703.4
5°	5124.0	5163.7	5203.4	5245.7	5322.4	5424.3	5524.8	5534.1	5645.2	5727.2	5770.8
7.5°	4788.1	4823.8	4871.4	4938.9	5047.3	5207.4	5375.4	5395.2	5605.5	5792.0	5889.9
10°	4442.9	4472.0	4540.7	4639.9	4789.4	5003.7	5229.9	5262.9	5569.8	5879.3	6051.2
12.5°	4073.8	4091.0	4174.4	4317.2	4536.8	4809.2	5106.8	5150.5	5547.3	5979.8	6241.7
15°	3793.4	3801.4	3880.7	4028.9	4280.2	4634.7	5011.6	5064.5	5552.6	6100.2	6449.4
17.5°	3722.0	3726.0	3768.3	3870.1	4092.4	4478.6	4936.2	5001.0	5568.5	6217.9	6658.3
20°	4011.7	3983.9	3940.2	3924.4	4019.6	4384.7	4891.3	4964.0	5589.6	6322.4	6846.2
22.5°	4806.6	4724.6	4543.4	4301.3	4154.5	4391.3	4903.2	4975.9	5657.1	6450.7	7063.1
25°	5986.4	5872.7	5564.5	5088.3	4630.7	4581.7	5002.4	5076.4	5788.0	6604.1	7270.7
27.5°	7328.9	7216.5	6839.6	6159.7	5379.3	4958.7	5229.9	5298.6	5982.5	6740.4	7429.5
30°	8614.6	8582.8	8138.4	7366.0	6321.1	5569.8	5523.5	5581.7	6126.6	6822.4	7555.1
32.5°	9704.5	9654.2	9297.1	8545.8	7399.0	6303.9	5868.7	5885.9	6235.1	6928.2	7719.1
35°	10715.0	10652.8	10339.3	9629.1	8504.8	7200.6	6400.4	6375.3	6471.8	7141.1	7957.2
37.5°	11597.2	11654.1	11306.2	10630.3	9496.8	8133.1	7117.3	7041.9	6842.2	7487.7	8302.4
40°	12335.3	12335.3	12154.1	11590.6	10568.2	9097.4	7928.1	7828.9	7399.0	8022.0	8740.2
42.5°	12601.1	12658.0	12725.5	12406.7	11527.1	10099.9	8831.5	8728.3	8183.4	8779.9	9293.1
45°	12617.0	12706.9	13052.2	13050.8	12393.5	11095.9	9850.0	9801.0	9188.6	9753.4	9978.3
47.5°	12393.5	12505.9	13074.6	13397.4	13079.9	12023.1	10963.7	10902.8	10369.8	10946.5	10695.1
50°	12048.2	12172.6	12833.9	13533.6	13546.8	12829.9	12136.9	12045.6	11670.0	12310.1	11435.8
52.5°	11430.6	11671.3	12618.3	13565.4	13853.7	13527.0	13253.2	13213.5	13124.9	13623.6	12025.8
55°	10109.2	10376.4	12077.3	13575.9	14138.1	14144.7	14299.4	14310.0	14488.6	14851.0	12464.9
57.5°	9484.9	9635.7	11133.0	13626.2	14560.0	14845.7	15365.5	15447.5	15724.0	16016.3	12966.2
60°	9092.1	9270.6	10667.4	13557.4	15222.7	15765.0	16353.6	16381.3	16677.6	17218.6	13644.7
62.5°	8778.6	8954.5	10373.7	13292.9	15967.3	16870.7	17319.1	17321.7	17544.0	18651.0	14415.8
65°	8004.8	8153.0	9779.9	12995.3	16459.4	17964.6	18440.7	18423.5	18604.7	20161.5	15311.3
67.5°	6885.8	6999.6	8567.0	11867.0	16274.2	18959.2	20133.8	20076.9	19857.3	21467.0	15663.1
70°	5323.8	5364.8	6752.3	9889.6	14538.8	19341.5	21769.9	21740.8	20625.8	21232.9	14373.5
71°	4400.5	4535.5	5950.7	8728.3	13376.2	18988.3	21928.6	21945.8	20432.7	20595.4	13486.0
72.5°	2555.4	2670.5	4313.2	6703.3	11356.5	17514.9	21105.9	21230.3	19530.6	18733.0	11519.2
75°	547.6	585.9	1599.1	3244.5	6247.0	12275.7	16659.1	17102.2	15918.4	12744.0	6942.7
77.5°	380.9	411.4	685.1	1472.1	2064.7	6065.8	10348.6	10848.6	9510.0	4789.4	2222.1
80°	301.6	336.0	534.4	727.5	558.2	1956.2	4847.6	5153.1	3171.8	1068.7	374.3
82.5°	168.0	199.7	416.6	392.8	214.3	371.7	1357.1	1534.3	634.9	215.6	88.6
85°	48.9	59.5	268.5	285.7	91.3	71.4	231.5	287.0	120.4	56.9	39.7
87.5°	0.0	0.0	129.6	109.8	26.5	10.6	21.2	23.8	23.8	23.8	26.5
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: P321522

CATALOG NUMBER: GAN-SA8B-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9	5680.9
2.5°	5703.4	5712.6	5679.6	5635.9	5589.6	5532.7	5473.2	5426.9	5425.6	5403.1	5380.6
5°	5773.5	5768.2	5676.9	5538.0	5374.0	5203.4	5040.7	4856.9	4796.0	4720.6	4695.5
7.5°	5903.1	5866.1	5673.0	5368.7	5009.0	4651.8	4282.8	3911.1	3752.4	3609.6	3584.4
10°	6065.8	5995.7	5647.8	5114.8	4454.8	3796.1	3239.2	2734.0	2511.8	2341.1	2333.2
12.5°	6235.1	6128.0	5577.7	4731.2	3728.6	2802.7	2161.3	1663.9	1478.8	1359.7	1370.3
15°	6412.3	6252.3	5426.9	4214.0	2901.9	1902.0	1328.0	1035.7	961.6	931.2	939.1
17.5°	6593.5	6338.3	5216.6	3591.1	2085.9	1227.4	919.3	837.3	837.3	843.9	846.5
20°	6750.9	6384.6	4907.1	2892.7	1413.9	894.1	804.2	792.3	798.9	809.5	810.8
22.5°	6907.0	6387.2	4503.7	2185.1	989.4	783.0	765.8	760.5	764.5	776.4	777.7
25°	7034.0	6355.5	3998.4	1554.1	789.6	738.1	730.1	727.5	730.1	744.7	744.7
27.5°	7085.6	6240.4	3382.1	1092.5	707.6	687.8	685.1	687.8	691.8	702.3	703.7
30°	7090.9	6039.3	2710.2	791.0	641.5	620.3	625.6	634.9	630.9	628.3	630.9
32.5°	7104.1	5806.5	2055.4	650.8	585.9	552.9	546.3	546.3	530.4	521.1	515.8
35°	7147.7	5532.7	1490.7	584.6	529.1	490.7	465.6	436.5	406.1	390.2	386.2
37.5°	7216.5	5245.7	1067.4	541.0	478.8	435.2	387.5	336.0	292.3	280.4	280.4
40°	7342.2	4949.4	789.6	506.6	439.1	384.9	313.5	246.0	206.3	199.7	199.7
42.5°	7540.6	4637.3	629.6	476.2	404.7	333.3	239.4	178.6	149.5	145.5	144.2
45°	7746.9	4293.4	550.2	447.1	367.7	273.8	177.2	132.3	115.1	111.1	111.1
47.5°	7953.2	3927.0	511.9	419.3	332.0	213.0	132.3	104.5	96.6	96.6	97.9
50°	8127.8	3544.8	484.1	388.9	285.7	161.4	104.5	88.6	86.0	91.3	92.6
52.5°	8171.5	3169.1	449.7	350.5	228.8	123.0	86.0	78.0	78.0	78.0	78.0
55°	8145.0	2878.1	404.7	302.9	169.3	97.9	74.1	68.8	67.5	67.5	67.5
57.5°	8235.0	2706.2	324.1	235.4	121.7	79.4	64.8	60.8	58.2	56.9	56.9
60°	8416.2	2593.8	231.5	169.3	91.3	66.1	55.6	51.6	47.6	45.0	45.0
62.5°	8656.9	2495.9	171.9	125.7	70.1	52.9	46.3	42.3	37.0	34.4	34.4
65°	8842.1	2321.3	130.9	93.9	52.9	42.3	35.7	34.4	26.5	23.8	22.5
67.5°	8559.0	1937.7	105.8	68.8	39.7	33.1	27.8	26.5	15.9	13.2	13.2
70°	7340.8	1349.1	84.7	50.3	29.1	26.5	22.5	17.2	11.9	10.6	10.6
71°	6657.0	1126.9	76.7	42.3	25.1	25.1	21.2	14.5	10.6	9.3	9.3
72.5°	5530.1	800.2	64.8	33.1	22.5	26.5	22.5	13.2	10.6	9.3	7.9
75°	3210.1	334.6	45.0	22.5	17.2	31.7	29.1	11.9	7.9	6.6	6.6
77.5°	965.6	123.0	25.1	14.5	13.2	27.8	33.1	10.6	4.0	1.3	1.3
80°	175.9	52.9	15.9	9.3	9.3	17.2	25.1	5.3	0.0	0.0	0.0
82.5°	62.2	26.5	9.3	5.3	4.0	7.9	11.9	0.0	0.0	0.0	0.0
85°	35.7	18.5	5.3	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.8	5.3	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)