

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: P321552

Luminaire Tested: **GAN-SA8A-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321552
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-SA8A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 26160 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

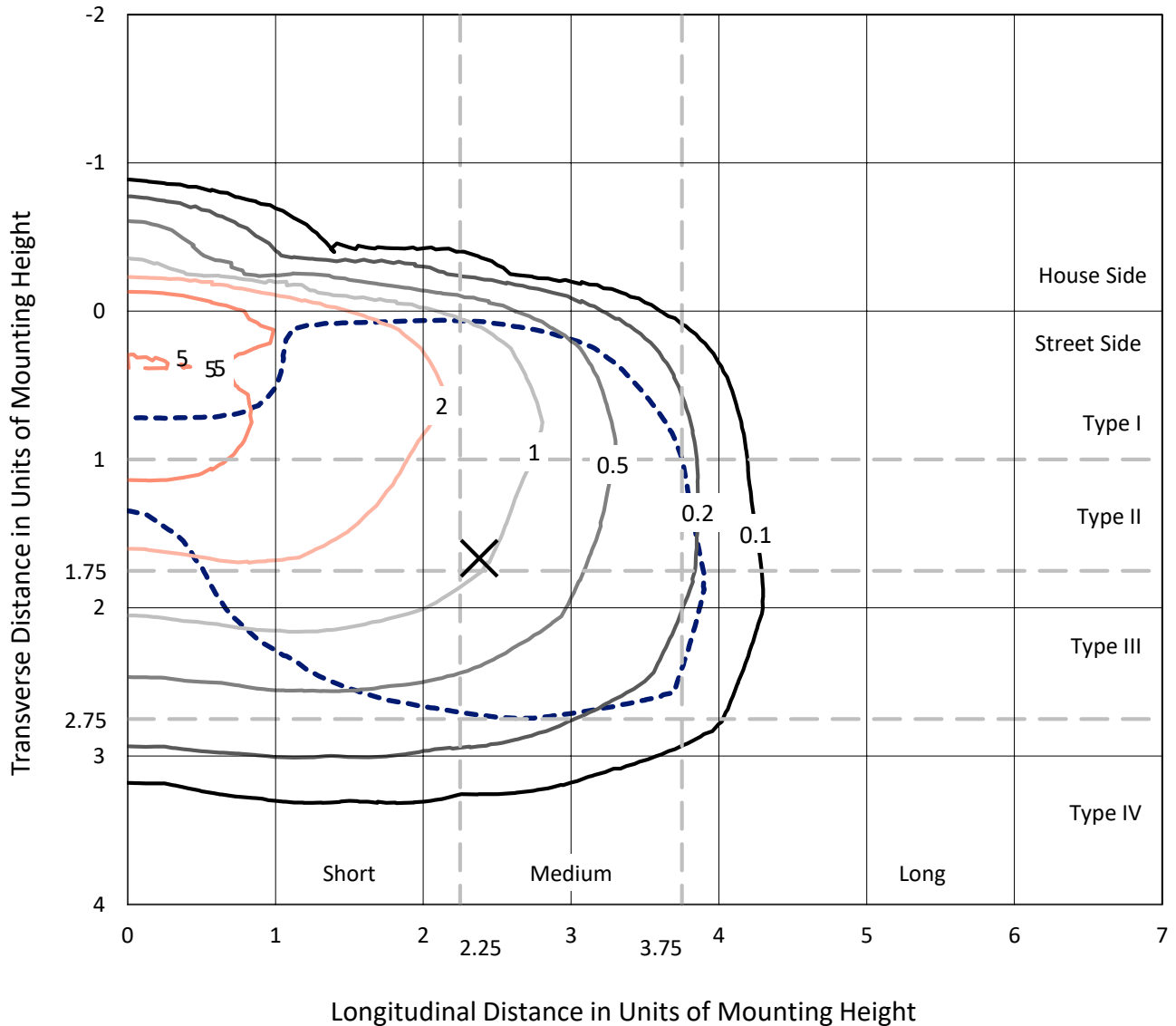
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

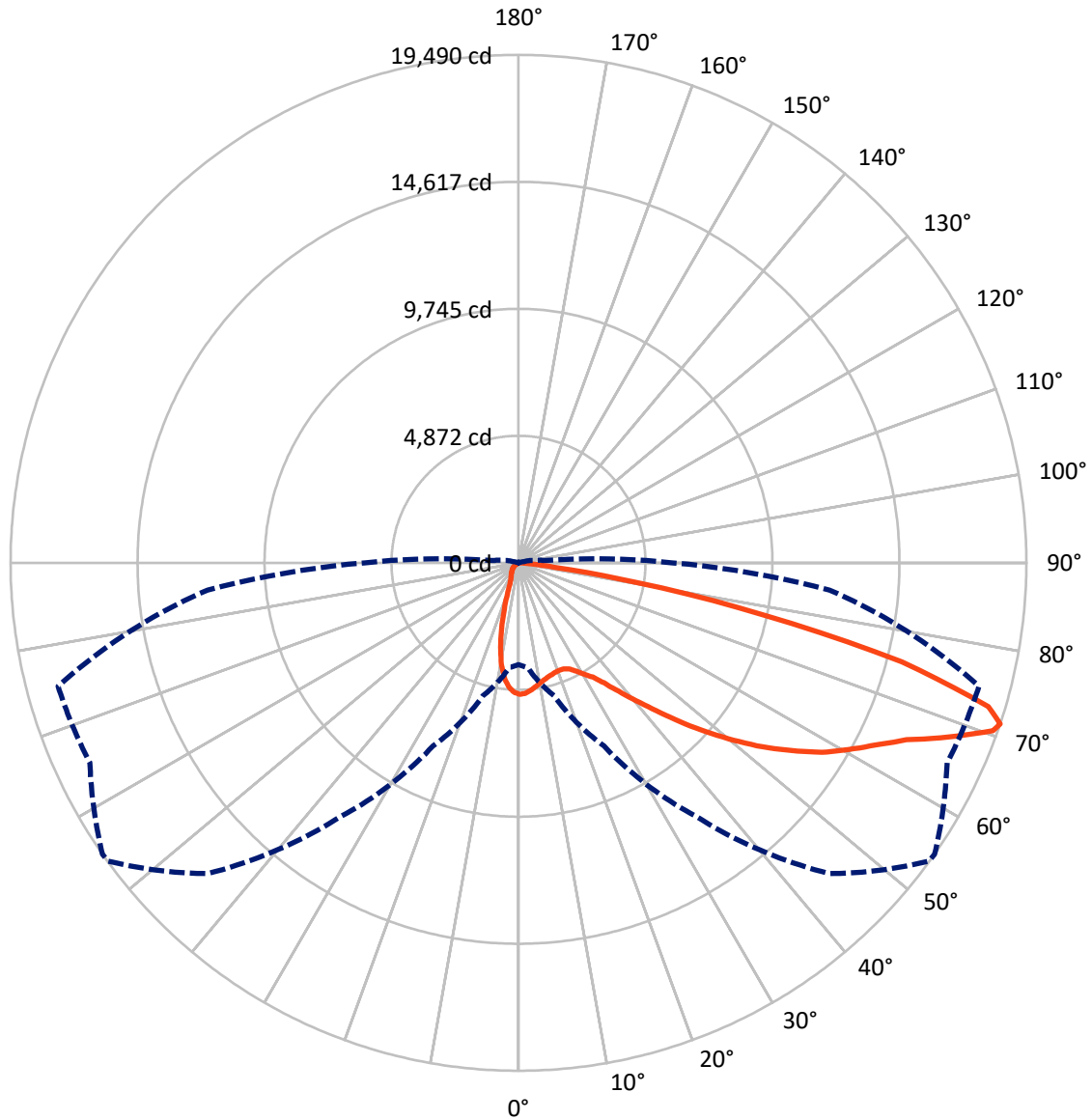
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2071.2	0.0	2071.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	24088.8	0.0	24088.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	26160.0	0.0	26160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.2	1.6
10°-20°	971.1	3.7
20°-30°	1560.6	6.0
30°-40°	2651.6	10.1
40°-50°	4115.6	15.7
50°-60°	5533.3	21.2
60°-70°	6769.0	25.9
70°-80°	3957.7	15.1
80°-90°	171.1	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°	26160.0	100.0
0°-180°	26160.0	100.0

Coefficient of Utilization

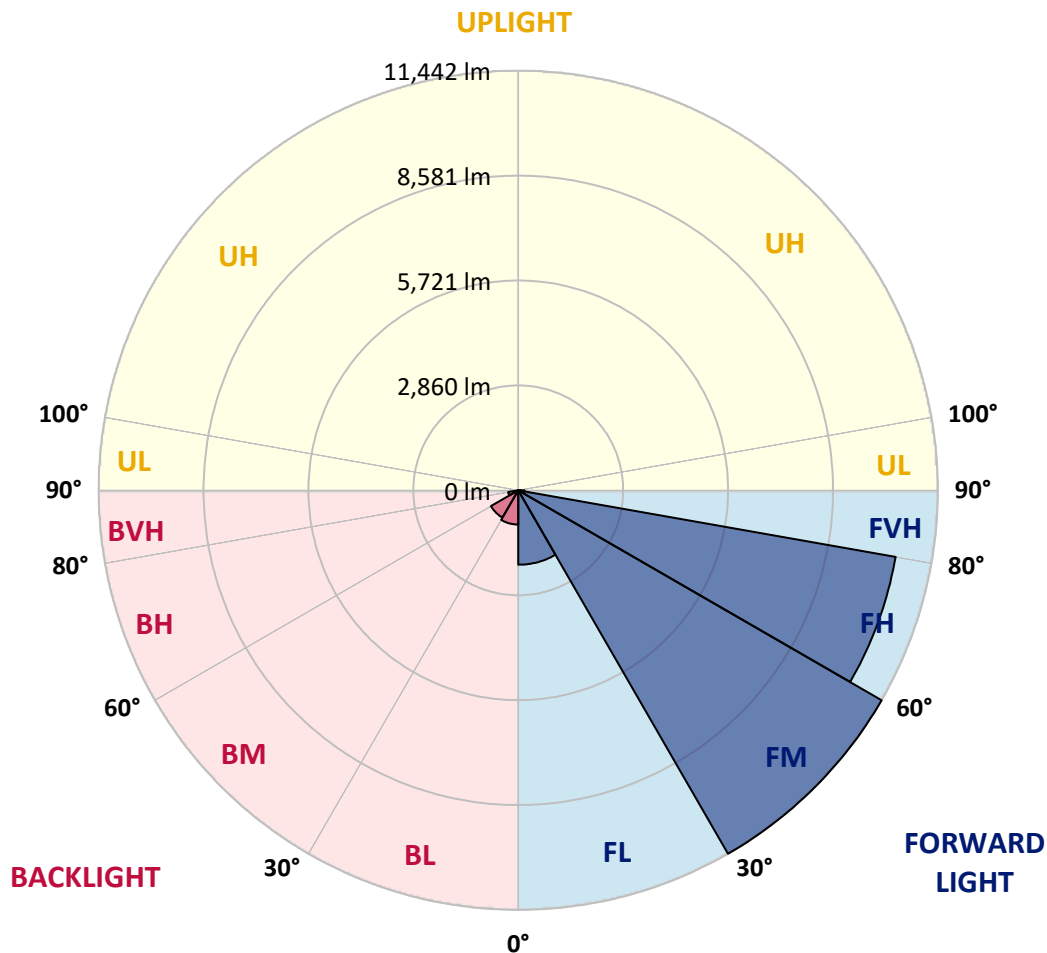


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.7	7.8			
FM (30°-60°)	11441.6	43.7			
FH (60°-80°)	10449.2	39.9			G4/12000
FVH (80°-90°)	168.4	0.6			G2/225
BL (0°-30°)	932.2	3.6	B2/1000		
BM (30°-60°)	858.7	3.3	B1/1000		
BH (60°-80°)	277.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	4897.0	4902.9	4924.1	4933.5	4955.8	4993.4	5012.2	5013.3	5043.9	5055.6	5065.0
5°	4550.5	4585.8	4621.0	4658.6	4726.7	4817.2	4906.4	4914.7	5013.3	5086.2	5124.9
7.5°	4252.2	4283.9	4326.2	4386.1	4482.4	4624.5	4773.7	4791.3	4978.1	5143.7	5230.6
10°	3945.6	3971.4	4032.5	4120.6	4253.3	4443.6	4644.5	4673.9	4946.4	5221.2	5373.9
12.5°	3617.9	3633.1	3707.1	3834.0	4029.0	4271.0	4535.3	4574.0	4926.4	5310.5	5543.1
15°	3368.8	3375.9	3446.4	3577.9	3801.1	4115.9	4450.7	4497.7	4931.1	5417.4	5727.5
17.5°	3305.4	3308.9	3346.5	3437.0	3634.3	3977.3	4383.7	4441.3	4945.2	5522.0	5913.1
20°	3562.7	3538.0	3499.2	3485.1	3569.7	3893.9	4343.8	4408.4	4964.0	5614.7	6079.9
22.5°	4268.6	4195.8	4034.9	3819.9	3689.5	3899.8	4354.4	4419.0	5023.9	5728.7	6272.5
25°	5316.4	5215.4	4941.7	4518.8	4112.4	4068.9	4442.5	4508.2	5140.2	5864.9	6457.0
27.5°	6508.6	6408.8	6074.0	5470.3	4777.2	4403.7	4644.5	4705.6	5312.9	5985.9	6597.9
30°	7650.4	7622.2	7227.5	6541.5	5613.6	4946.4	4905.3	4957.0	5440.9	6058.8	6709.5
32.5°	8618.3	8573.6	8256.5	7589.3	6570.9	5598.3	5211.8	5227.1	5537.2	6152.7	6855.2
35°	9515.7	9460.5	9182.1	8551.3	7552.9	6394.7	5684.1	5661.7	5747.5	6341.8	7066.6
37.5°	10299.2	10349.7	10040.8	9440.5	8433.9	7222.8	6320.7	6253.7	6076.4	6649.6	7373.2
40°	10954.6	10954.6	10793.7	10293.3	9385.3	8079.1	7040.8	6952.7	6570.9	7124.2	7762.0
42.5°	11190.7	11241.2	11301.1	11018.1	10236.9	8969.5	7843.0	7751.4	7267.5	7797.2	8253.0
45°	11204.8	11284.7	11591.3	11590.1	11006.3	9854.0	8747.5	8704.0	8160.2	8661.7	8861.4
47.5°	11006.3	11106.2	11611.2	11897.9	11615.9	10677.4	9736.5	9682.5	9209.1	9721.3	9498.1
50°	10699.7	10810.1	11397.5	12018.8	12030.6	11393.9	10778.4	10697.4	10363.8	10932.3	10155.9
52.5°	10151.2	10365.0	11206.0	12047.0	12303.1	12013.0	11769.8	11734.6	11655.9	12098.7	10679.8
55°	8977.7	9215.0	10725.6	12056.4	12555.7	12561.5	12699.0	12708.4	12866.9	13188.8	11069.7
57.5°	8423.3	8557.2	9886.9	12101.1	12930.4	13184.1	13645.7	13718.5	13964.0	14223.6	11514.9
60°	8074.4	8233.0	9473.4	12040.0	13518.9	14000.5	14523.2	14547.8	14811.0	15291.4	12117.5
62.5°	7796.0	7952.3	9212.6	11805.1	14180.2	14982.4	15380.6	15383.0	15580.3	16563.5	12802.3
65°	7108.9	7240.4	8685.2	11540.8	14617.1	15953.9	16376.7	16361.5	16522.4	17904.9	13597.6
67.5°	6115.1	6216.2	7608.1	10538.8	14452.7	16837.2	17880.3	17829.8	17634.8	19064.3	13910.0
70°	4727.9	4764.3	5996.5	8782.7	12911.6	17176.7	19333.3	19307.4	18317.2	18856.4	12764.7
71°	3908.0	4027.8	5284.7	7751.4	11879.1	16863.0	19474.2	19489.5	18145.7	18290.2	11976.6
72.5°	2269.4	2371.6	3830.5	5953.0	10085.4	15554.5	18743.6	18854.0	17344.6	16636.3	10229.9
75°	486.3	520.4	1420.1	2881.4	5547.8	10901.8	14794.5	15188.0	14136.7	11317.6	6165.6
77.5°	338.3	365.3	608.5	1307.4	1833.6	5386.9	9190.3	9634.3	8445.6	4253.3	1973.4
80°	267.8	298.4	474.6	646.0	495.7	1737.3	4305.0	4576.4	2816.8	949.1	332.4
82.5°	149.2	177.4	370.0	348.9	190.3	330.1	1205.2	1362.6	563.8	191.5	78.7
85°	43.5	52.9	238.5	253.7	81.0	63.4	205.6	254.9	106.9	50.5	35.2
87.5°	0.0	0.0	115.1	97.5	23.5	9.4	18.8	21.1	21.1	21.1	23.5
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°	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0	5045.0
2.5°	5065.0	5073.2	5043.9	5005.1	4964.0	4913.5	4860.6	4819.5	4818.3	4798.4	4778.4
5°	5127.3	5122.6	5041.5	4918.2	4772.5	4621.0	4476.5	4313.3	4259.2	4192.3	4169.9
7.5°	5242.4	5209.5	5038.0	4767.8	4448.3	4131.2	3803.5	3473.4	3332.4	3205.6	3183.3
10°	5386.9	5324.6	5015.7	4542.3	3956.2	3371.2	2876.7	2428.0	2230.6	2079.1	2072.1
12.5°	5537.2	5442.1	4953.4	4201.7	3311.3	2489.0	1919.4	1477.7	1313.2	1207.5	1216.9
15°	5694.6	5552.5	4819.5	3742.4	2577.1	1689.1	1179.3	919.7	854.0	826.9	834.0
17.5°	5855.5	5628.8	4632.8	3189.1	1852.4	1090.1	816.4	743.5	743.5	749.4	751.8
20°	5995.3	5670.0	4357.9	2568.9	1255.7	794.1	714.2	703.6	709.5	718.9	720.1
22.5°	6133.9	5672.3	3999.6	1940.5	878.6	695.4	680.1	675.4	678.9	689.5	690.7
25°	6246.7	5644.1	3550.9	1380.2	701.3	655.4	648.4	646.0	648.4	661.3	661.3
27.5°	6292.5	5541.9	3003.5	970.2	628.4	610.8	608.5	610.8	614.3	623.7	624.9
30°	6297.2	5363.4	2406.8	702.4	569.7	550.9	555.6	563.8	560.3	558.0	560.3
32.5°	6309.0	5156.6	1825.4	577.9	520.4	491.0	485.1	485.1	471.0	462.8	458.1
35°	6347.7	4913.5	1323.8	519.2	469.9	435.8	413.5	387.6	360.6	346.5	343.0
37.5°	6408.8	4658.6	947.9	480.4	425.2	386.5	344.2	298.4	259.6	249.0	249.0
40°	6520.4	4395.5	701.3	449.9	390.0	341.8	278.4	218.5	183.2	177.4	177.4
42.5°	6696.6	4118.3	559.1	422.9	359.4	296.0	212.6	158.6	132.7	129.2	128.0
45°	6879.8	3812.9	488.6	397.0	326.5	243.1	157.4	117.5	102.2	98.7	98.7
47.5°	7063.1	3487.5	454.6	372.4	294.8	189.1	117.5	92.8	85.7	85.7	86.9
50°	7218.1	3148.0	429.9	345.3	253.7	143.3	92.8	78.7	76.4	81.0	82.2
52.5°	7256.9	2814.4	399.4	311.3	203.2	109.2	76.4	69.3	69.3	69.3	69.3
55°	7233.4	2556.0	359.4	269.0	150.4	86.9	65.8	61.1	59.9	59.9	59.9
57.5°	7313.3	2403.3	287.8	209.1	108.1	70.5	57.6	54.0	51.7	50.5	50.5
60°	7474.2	2303.5	205.6	150.4	81.0	58.7	49.3	45.8	42.3	39.9	39.9
62.5°	7688.0	2216.5	152.7	111.6	62.3	47.0	41.1	37.6	32.9	30.5	30.5
65°	7852.4	2061.5	116.3	83.4	47.0	37.6	31.7	30.5	23.5	21.1	20.0
67.5°	7601.1	1720.8	94.0	61.1	35.2	29.4	24.7	23.5	14.1	11.7	11.7
70°	6519.2	1198.1	75.2	44.6	25.8	23.5	20.0	15.3	10.6	9.4	9.4
71°	5911.9	1000.8	68.1	37.6	22.3	22.3	18.8	12.9	9.4	8.2	8.2
72.5°	4911.1	710.7	57.6	29.4	20.0	23.5	20.0	11.7	9.4	8.2	7.0
75°	2850.8	297.2	39.9	20.0	15.3	28.2	25.8	10.6	7.0	5.9	5.9
77.5°	857.5	109.2	22.3	12.9	11.7	24.7	29.4	9.4	3.5	1.2	1.2
80°	156.2	47.0	14.1	8.2	8.2	15.3	22.3	4.7	0.0	0.0	0.0
82.5°	55.2	23.5	8.2	4.7	3.5	7.0	10.6	0.0	0.0	0.0	0.0
85°	31.7	16.4	4.7	2.3	0.0	1.2	2.3	0.0	0.0	0.0	0.0
87.5°	21.1	4.7	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)