

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: P322261

Luminaire Tested: **GAN-SA7D-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39993 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

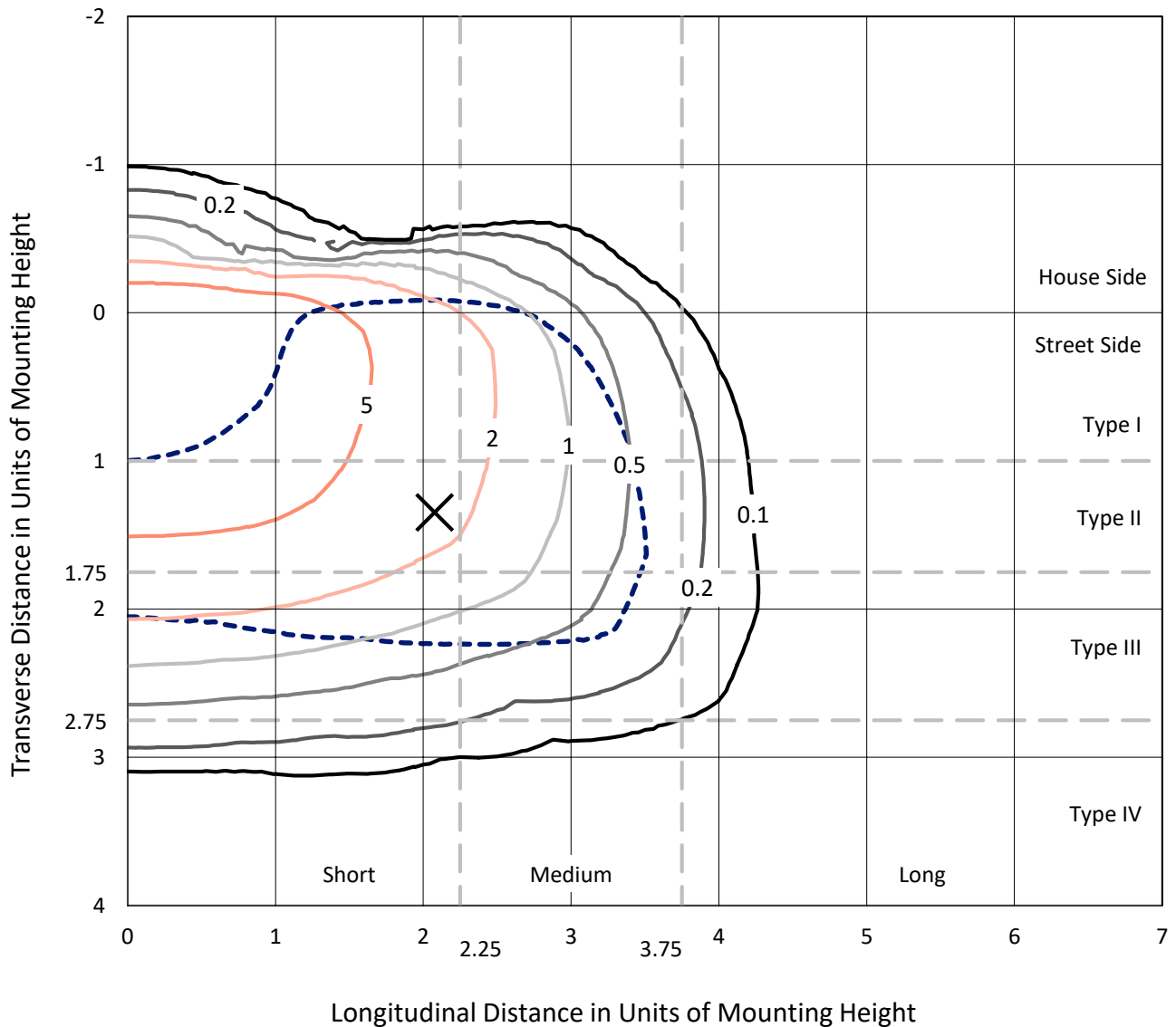
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

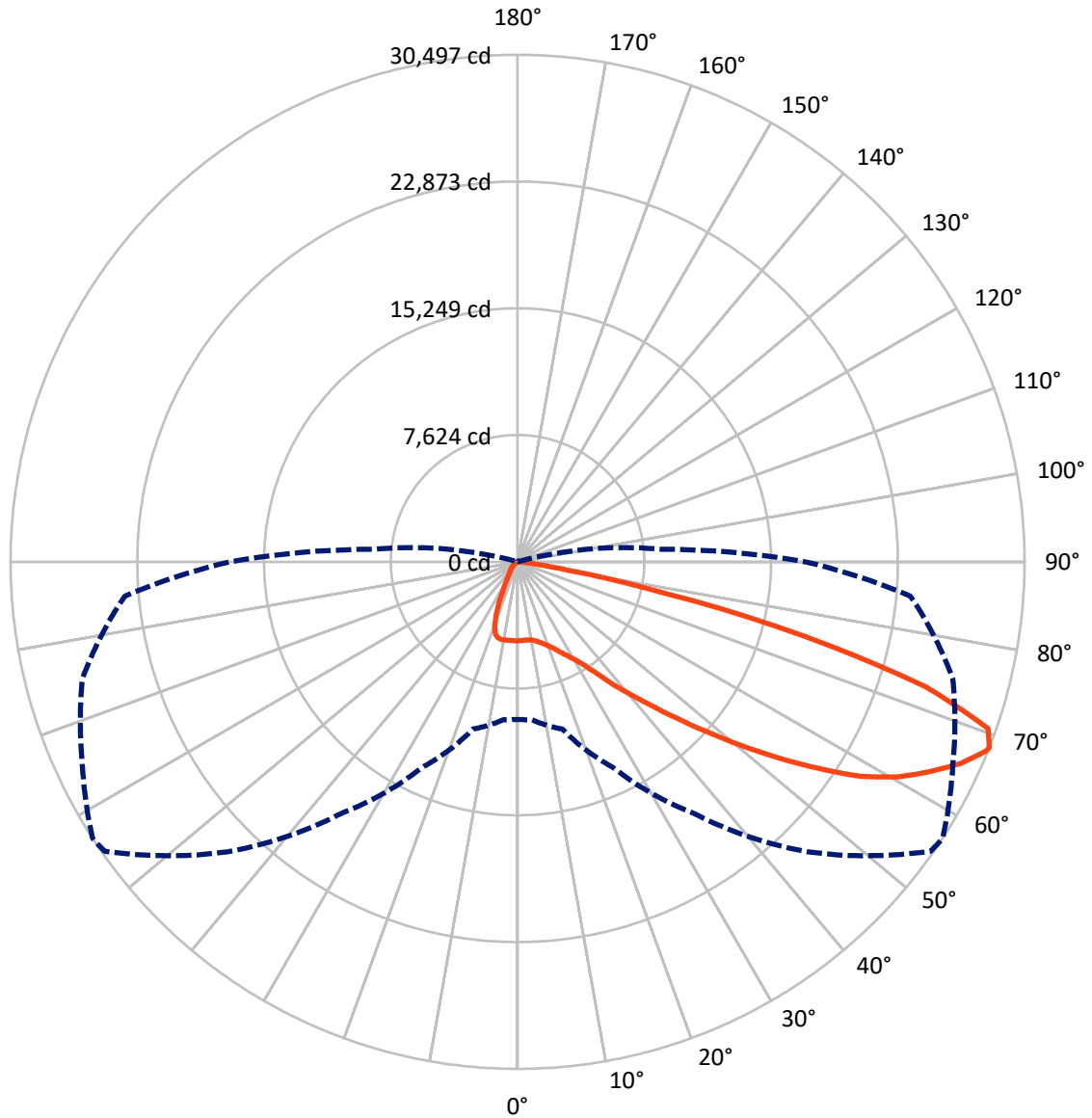
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4385.5	0.0	4385.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	35607.5	0.0	35607.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	39993.0	0.0	39993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	1.1
10°-20°	1232.4	3.1
20°-30°	2126.0	5.3
30°-40°	3669.4	9.2
40°-50°	6276.6	15.7
50°-60°	10041.9	25.1
60°-70°	11602.3	29.0
70°-80°	4433.4	11.1
80°-90°	166.2	0.4
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°	39993.0	100.0
0°-180°	39993.0	100.0

Coefficient of Utilization



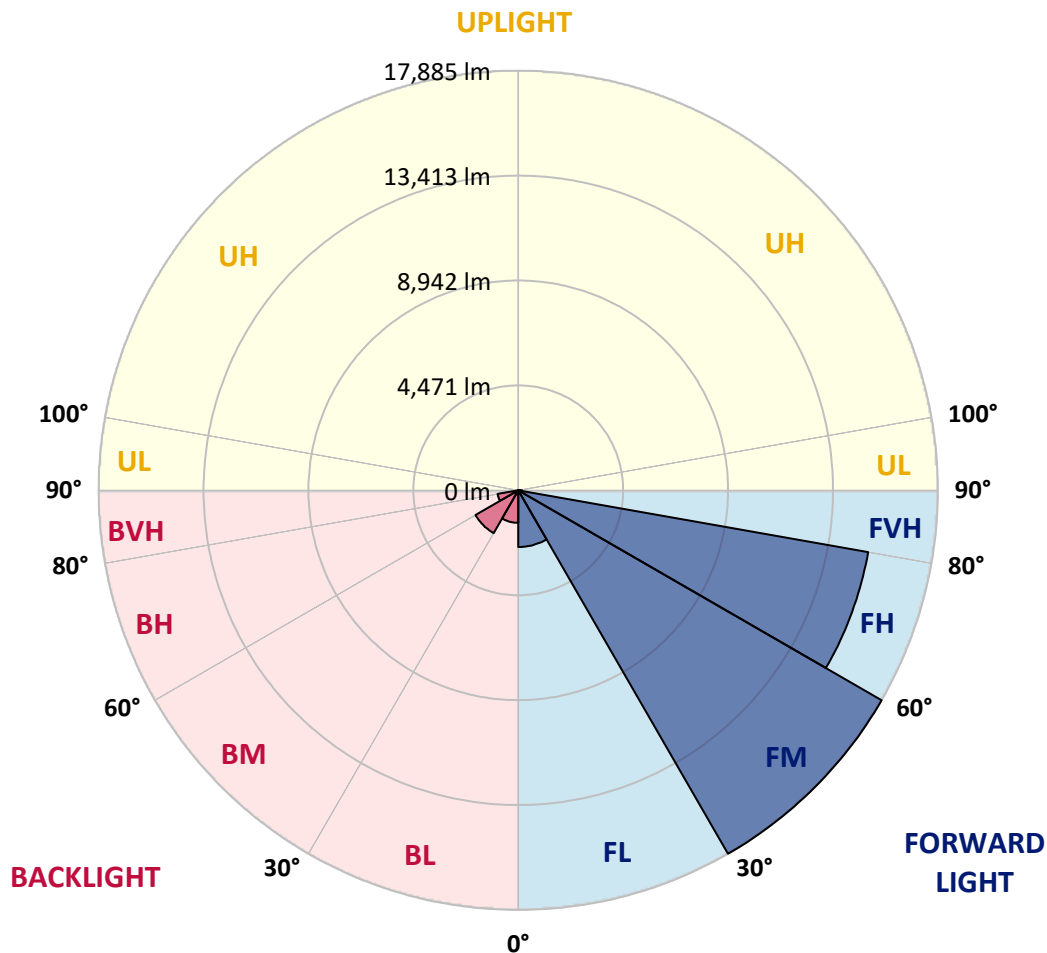
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.2	6.0			
FM (30°-60°)	17884.5	44.7			
FH (60°-80°)	15142.6	37.9			G5
FVH (80°-90°)	163.2	0.4			G2/225
BL (0°-30°)	1385.9	3.5	B3/2500		
BM (30°-60°)	2103.4	5.3	B2/2500		
BH (60°-80°)	893.1	2.2	B2/1000		G2/1000
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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2
2.5°	4640.7	4661.5	4676.6	4686.0	4697.4	4722.0	4729.5	4740.9	4746.5	4746.5	4759.8
5°	4457.2	4479.9	4512.1	4538.5	4591.5	4659.6	4708.7	4727.6	4761.7	4791.9	4809.0
7.5°	4287.0	4313.5	4351.3	4413.7	4504.5	4614.2	4716.3	4742.8	4809.0	4873.3	4905.4
10°	4177.3	4198.1	4247.3	4336.2	4455.3	4608.5	4752.2	4784.4	4897.8	5005.6	5066.1
12.5°	4139.5	4158.4	4209.5	4309.7	4457.2	4636.9	4835.4	4882.7	5049.1	5206.1	5291.2
15°	4194.4	4198.1	4253.0	4347.5	4493.1	4706.8	4973.5	5030.2	5240.1	5444.3	5550.2
17.5°	4406.2	4389.1	4417.5	4459.1	4574.5	4799.5	5119.1	5204.2	5484.1	5724.2	5824.5
20°	4935.7	4935.7	4871.4	4757.9	4759.8	4943.2	5315.8	5412.2	5754.5	6032.5	6123.2
22.5°	5841.5	5824.5	5695.9	5417.9	5162.6	5190.9	5555.9	5680.7	6079.7	6376.6	6406.9
25°	6930.7	6909.9	6711.4	6319.9	5877.4	5591.9	5881.2	6024.9	6467.4	6730.3	6667.9
27.5°	8084.3	8067.2	7870.6	7384.6	6754.9	6231.0	6268.8	6405.0	6862.6	7121.7	6923.2
30°	9201.9	9207.5	9012.8	8513.5	7800.6	7046.1	6760.5	6839.9	7246.5	7509.4	7225.7
32.5°	10264.6	10272.2	10103.9	9546.0	8880.4	7993.5	7441.3	7420.5	7692.8	7951.9	7626.6
35°	11212.1	11231.0	11115.6	10682.6	9977.2	9048.7	8324.4	8275.3	8326.3	8619.4	8241.2
37.5°	12125.4	12136.8	12049.8	11684.8	11094.8	10207.9	9440.1	9370.2	9260.5	9485.5	9052.5
40°	13125.8	13097.5	12997.2	12666.3	12159.5	11488.2	10639.1	10518.1	10327.1	10527.5	10119.0
42.5°	14056.2	14024.1	14041.1	13666.7	13239.3	12804.3	12036.6	11828.6	11717.0	11947.7	11427.6
45°	15219.2	15202.2	15258.9	14933.7	14587.6	14271.8	13638.3	13411.4	13362.2	13632.6	13010.5
47.5°	16367.1	16408.7	16584.6	16446.5	16306.6	16028.6	15334.6	15232.5	15262.7	15589.9	14680.3
50°	17324.0	17373.1	17855.3	18014.2	18216.5	18053.9	17358.0	17295.6	17414.7	17709.7	16476.8
52.5°	18016.1	18116.3	18715.8	19447.6	20185.1	20294.8	19600.8	19544.1	19704.8	19750.2	17864.8
55°	18496.4	18585.3	19264.2	20603.1	22104.5	22577.3	22146.2	21926.8	21896.5	21448.4	19324.7
57.5°	18581.5	18572.1	19547.8	21350.0	23609.8	24829.6	24557.2	24341.7	23721.4	23017.9	20998.3
60°	18101.2	18156.0	19288.8	21609.1	24555.4	26533.4	26554.2	26274.3	25308.0	24544.0	22620.8
62.5°	16622.4	16845.5	17989.6	20930.2	24544.0	27219.9	28017.9	27804.2	26648.8	25794.0	24266.0
65°	14224.5	14303.9	15395.1	18604.2	22885.6	26932.4	29335.9	29256.5	27857.1	27008.1	25111.3
67.5°	10387.6	10215.5	11361.5	14650.0	19375.8	25256.9	30281.5	30381.7	28789.4	27257.7	24211.2
68°	9479.9	9530.9	10423.5	13672.3	18456.7	24665.0	30343.9	30497.1	28882.1	27095.0	23719.5
70°	5650.5	5748.8	6544.9	9413.7	14041.1	21316.0	29670.7	30020.5	28329.9	25417.7	20516.1
72.5°	1442.9	1560.1	2312.8	4213.3	8020.0	15018.8	25047.0	25638.9	24597.0	20620.1	13850.1
75°	593.8	624.0	826.4	1388.0	2987.9	6766.2	16508.9	17775.9	17051.6	12344.8	6259.4
77.5°	410.4	431.2	531.4	769.7	1293.5	2293.9	8093.7	9009.0	8116.4	4213.3	1365.3
80°	295.0	312.0	380.1	512.5	743.2	818.8	2638.0	3050.3	2422.4	924.7	338.5
82.5°	175.9	189.1	283.7	365.0	452.0	391.4	656.2	745.1	701.6	459.5	151.3
85°	87.0	102.1	191.0	261.0	243.9	164.5	200.5	223.1	276.1	279.9	81.3
87.5°	5.7	11.3	111.6	157.0	68.1	37.8	58.6	71.9	98.3	138.0	34.0
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°	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2	4752.2
2.5°	4765.5	4767.4	4754.1	4748.4	4752.2	4729.5	4720.1	4723.9	4723.9	4729.5	4720.1
5°	4812.7	4812.7	4790.0	4759.8	4742.8	4699.3	4670.9	4663.3	4657.7	4653.9	4646.3
7.5°	4914.9	4903.5	4863.8	4797.6	4740.9	4646.3	4574.5	4536.6	4517.7	4510.2	4504.5
10°	5079.4	5058.6	4992.4	4869.5	4739.0	4570.7	4413.7	4302.2	4209.5	4171.7	4149.0
12.5°	5300.6	5270.4	5158.8	4954.6	4725.7	4415.6	4075.2	3748.1	3443.6	3318.8	3256.4
15°	5555.9	5512.4	5336.6	5026.4	4648.2	4065.8	3326.4	2753.4	2331.7	2172.8	2104.7
17.5°	5815.0	5758.3	5491.6	5071.8	4415.6	3341.5	2333.6	1762.5	1480.7	1405.1	1378.6
20°	6076.0	5992.8	5625.9	5037.8	3889.9	2409.2	1539.3	1287.8	1206.5	1183.8	1176.2
22.5°	6323.7	6195.1	5746.9	4905.4	3080.5	1616.9	1217.8	1138.4	1111.9	1098.7	1094.9
25°	6539.3	6359.6	5852.8	4496.9	2180.4	1221.6	1096.8	1070.3	1036.3	1011.7	1013.6
27.5°	6741.6	6524.1	5917.1	3823.7	1454.2	1043.9	1015.5	979.6	917.2	881.2	881.2
30°	6985.6	6743.5	5964.4	2942.5	1070.3	922.8	900.1	845.3	760.2	712.9	712.9
32.5°	7352.4	7076.3	5934.1	2065.0	886.9	811.3	758.3	682.7	590.0	544.6	542.7
35°	7914.1	7590.7	5718.6	1354.0	782.9	705.4	620.3	527.6	446.3	408.5	406.6
37.5°	8670.5	8279.0	5234.4	968.2	701.6	607.0	504.9	402.8	342.3	317.7	315.8
40°	9651.9	9079.0	4542.3	784.8	625.9	512.5	389.6	312.0	270.4	251.5	253.4
42.5°	10830.1	9935.6	3712.1	677.0	552.2	421.7	304.5	245.8	219.4	206.1	202.3
45°	12138.7	10780.9	2842.3	603.2	478.4	340.4	238.3	194.8	174.0	166.4	166.4
47.5°	13577.8	11603.5	2080.2	539.0	399.0	262.9	191.0	158.8	141.8	136.2	134.3
50°	14884.5	12174.6	1499.6	470.9	327.2	208.0	155.1	132.4	121.0	113.5	113.5
52.5°	15973.7	12354.3	1104.4	397.1	264.7	166.4	128.6	113.5	102.1	96.4	96.4
55°	16932.5	12280.5	820.7	327.2	213.7	136.2	109.7	96.4	87.0	81.3	81.3
57.5°	17851.6	12042.2	612.7	266.6	172.1	109.7	92.7	81.3	71.9	68.1	68.1
60°	18602.3	11645.1	455.7	215.6	138.0	88.9	77.5	66.2	58.6	52.9	52.9
62.5°	19211.2	11206.4	334.7	177.8	109.7	70.0	60.5	54.8	43.5	37.8	37.8
65°	19215.0	10478.3	251.5	147.5	85.1	54.8	45.4	43.5	28.4	22.7	20.8
67.5°	17825.1	9033.6	192.9	126.7	66.2	41.6	34.0	35.9	15.1	9.5	7.6
68°	17320.2	8666.7	181.5	124.8	62.4	39.7	32.1	35.9	13.2	7.6	5.7
70°	14602.7	6894.8	145.6	121.0	54.8	30.3	26.5	35.9	11.3	5.7	3.8
72.5°	9339.9	4001.5	107.8	96.4	41.6	22.7	17.0	32.1	11.3	3.8	1.9
75°	3975.0	1240.5	73.8	68.1	24.6	17.0	11.3	20.8	7.6	1.9	0.0
77.5°	837.7	279.9	43.5	41.6	17.0	11.3	7.6	5.7	1.9	0.0	0.0
80°	215.6	81.3	22.7	20.8	9.5	5.7	3.8	0.0	0.0	0.0	0.0
82.5°	68.1	32.1	13.2	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	18.9	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	5.7	1.9	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)