

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: P322252

Luminaire Tested: **GAN-SA8C-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322252
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-SA8C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA 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: 41309 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

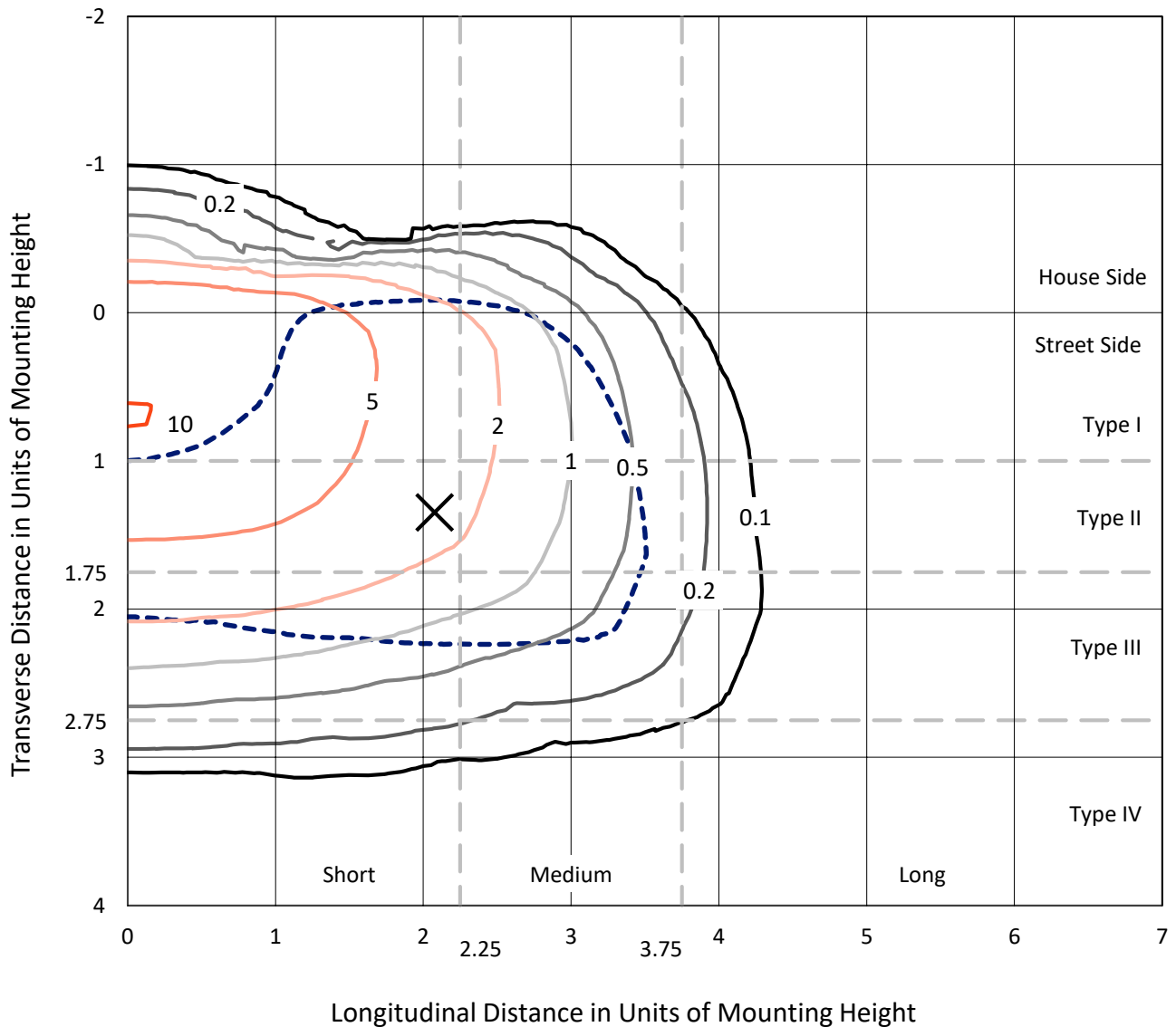
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322252
 CATALOG NUMBER: GAN-SA8C-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

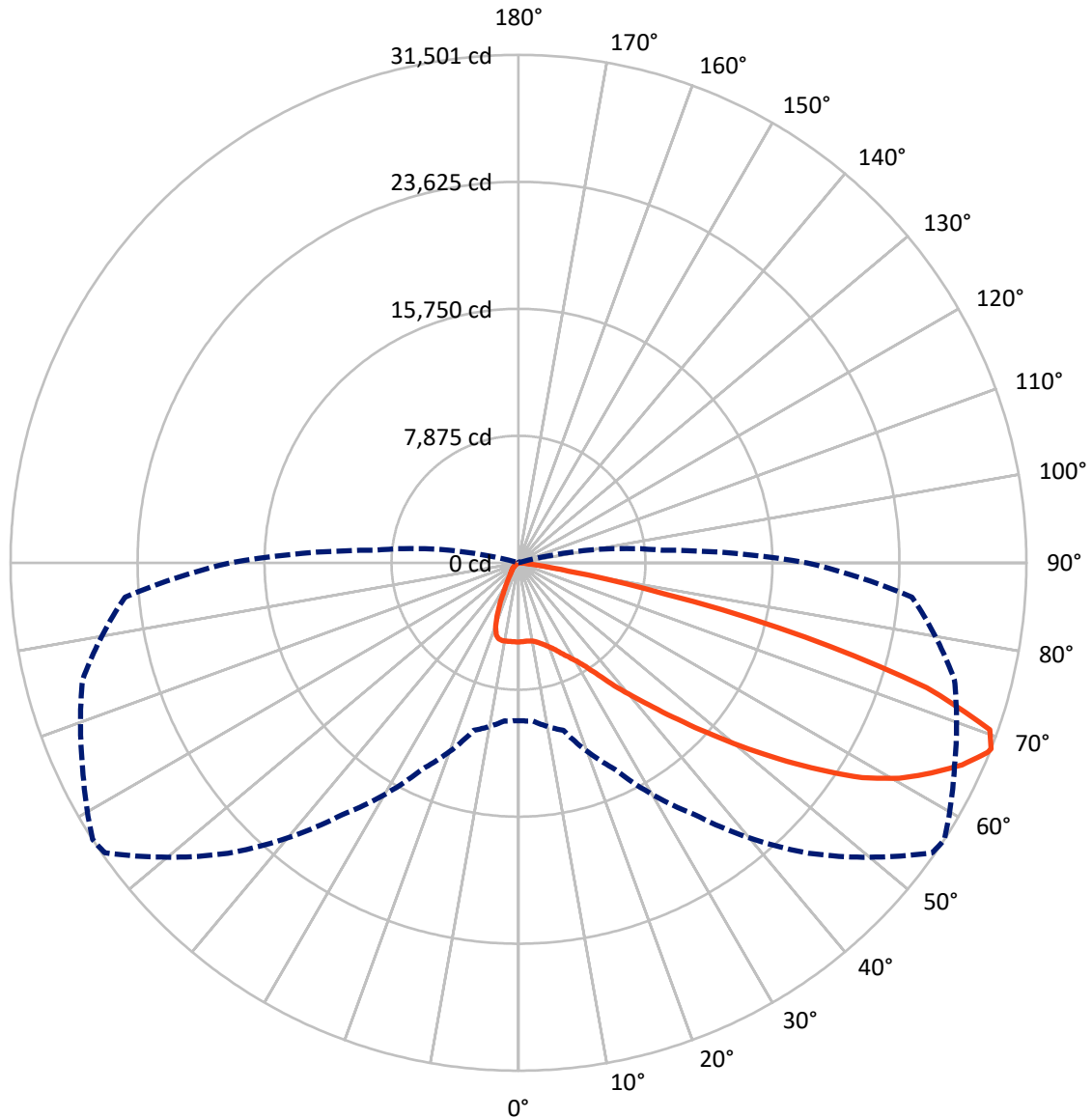
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

REPORT NUMBER: P322252
CATALOG NUMBER: GAN-SA8C-740-U-T3-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GAN-SA8C-740-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4529.8	0.0	4529.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36779.2	0.0	36779.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	41309.0	0.0	41309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.4	1.1
10°-20°	1272.9	3.1
20°-30°	2196.0	5.3
30°-40°	3790.1	9.2
40°-50°	6483.1	15.7
50°-60°	10372.4	25.1
60°-70°	11984.1	29.0
70°-80°	4579.3	11.1
80°-90°	171.7	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°	41309.0	100.0
0°-180°	41309.0	100.0

Coefficient of Utilization

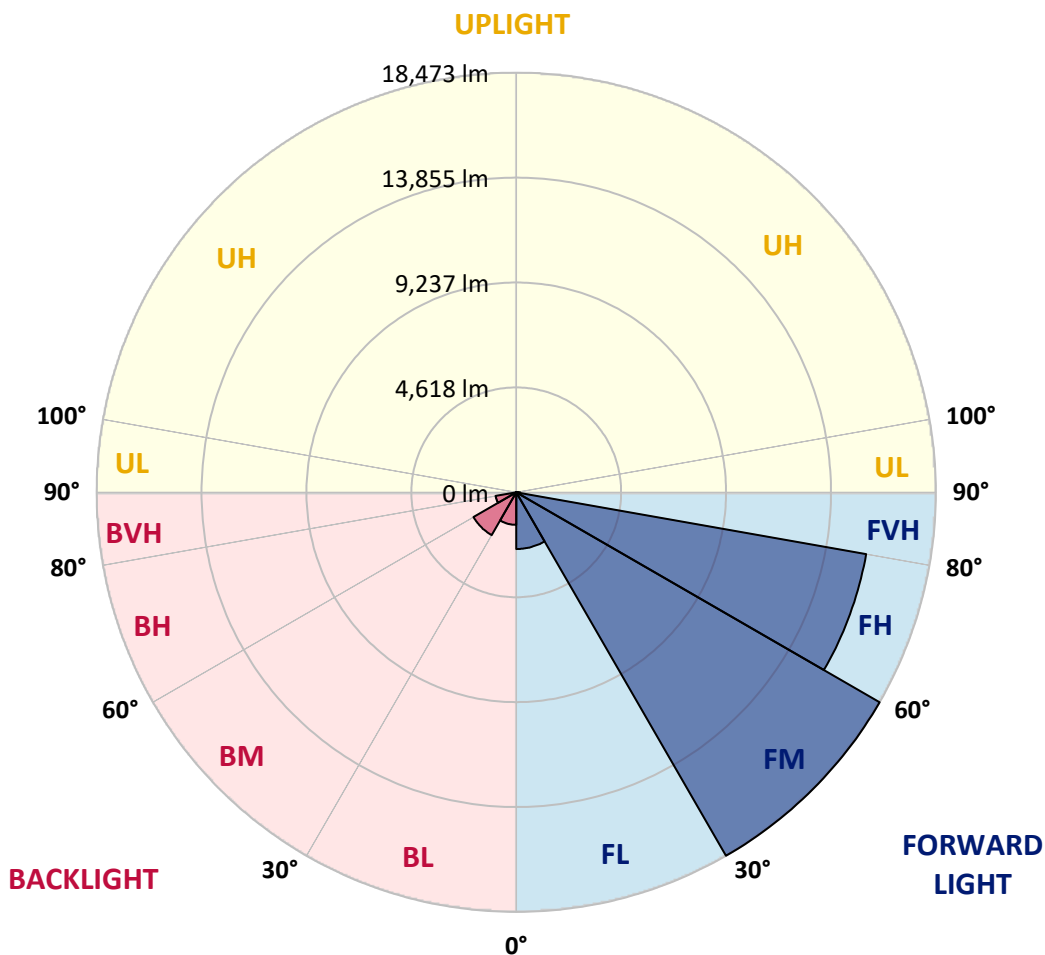


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.7	6.0			
FM (30°-60°)	18473.0	44.7			
FH (60°-80°)	15640.9	37.9			G5
FVH (80°-90°)	168.5	0.4			G2/225
BL (0°-30°)	1431.6	3.5	B3/2500		
BM (30°-60°)	2172.6	5.3	B2/2500		
BH (60°-80°)	922.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	3.1	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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CATALOG NUMBER: GAN-SA8C-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6
2.5°	4793.4	4814.8	4830.5	4840.2	4852.0	4877.3	4885.2	4896.9	4902.7	4902.7	4916.4
5°	4603.9	4627.3	4660.5	4687.9	4742.6	4812.9	4863.7	4883.2	4918.4	4949.6	4967.2
7.5°	4428.1	4455.4	4494.5	4559.0	4652.7	4766.0	4871.5	4898.8	4967.2	5033.6	5066.8
10°	4314.8	4336.3	4387.1	4478.9	4601.9	4760.1	4908.6	4941.8	5059.0	5170.3	5232.8
12.5°	4275.7	4295.3	4348.0	4451.5	4603.9	4789.4	4994.5	5043.4	5215.3	5377.4	5465.3
15°	4332.4	4336.3	4392.9	4490.6	4641.0	4861.7	5137.1	5195.7	5412.5	5623.5	5732.9
17.5°	4551.1	4533.6	4562.9	4605.8	4725.0	4957.4	5287.5	5375.4	5664.5	5912.6	6016.1
20°	5098.1	5098.1	5031.7	4914.5	4916.4	5105.9	5490.7	5590.3	5943.8	6231.0	6324.7
22.5°	6033.7	6016.1	5883.3	5596.2	5332.5	5361.8	5738.7	5867.7	6279.8	6586.5	6617.7
25°	7158.8	7137.3	6932.2	6527.9	6070.8	5775.9	6074.7	6223.2	6680.2	6951.7	6887.3
27.5°	8350.3	8332.7	8129.6	7627.6	6977.1	6436.1	6475.1	6615.8	7088.5	7356.1	7151.0
30°	9504.7	9510.5	9309.3	8793.7	8057.3	7277.9	6983.0	7065.0	7485.0	7756.5	7463.5
32.5°	10602.4	10610.2	10436.4	9860.2	9172.6	8256.5	7686.2	7664.7	7946.0	8213.6	7877.6
35°	11581.0	11600.5	11481.4	11034.1	10305.5	9346.5	8598.3	8547.6	8600.3	8903.1	8512.4
37.5°	12524.4	12536.2	12446.3	12069.3	11459.9	10543.8	9750.8	9678.5	9565.2	9797.7	9350.4
40°	13557.7	13528.4	13424.9	13083.1	12559.6	11866.2	10989.2	10864.2	10666.9	10873.9	10452.0
42.5°	14518.7	14485.5	14503.1	14116.4	13674.9	13225.7	12432.6	12217.8	12102.5	12340.8	11803.7
45°	15720.0	15702.4	15761.0	15425.1	15067.6	14741.4	14087.1	13852.7	13801.9	14081.2	13438.6
47.5°	16905.7	16948.6	17130.3	16987.7	16843.2	16556.0	15839.2	15733.7	15764.9	16102.9	15163.3
50°	17894.0	17944.8	18442.9	18607.0	18816.0	18648.0	17929.2	17864.7	17987.8	18292.5	17018.9
52.5°	18608.9	18712.4	19331.6	20087.6	20849.3	20962.6	20245.8	20187.2	20353.2	20400.1	18452.7
55°	19105.1	19196.9	19898.1	21281.0	22831.9	23320.2	22874.9	22648.3	22617.1	22154.1	19960.6
57.5°	19193.0	19183.2	20191.1	22052.6	24386.7	25646.6	25365.3	25142.6	24502.0	23775.4	21689.2
60°	18696.8	18753.5	19923.5	22320.2	25363.4	27406.5	27428.0	27138.9	26140.8	25351.7	23365.2
62.5°	17169.4	17399.8	18581.6	21618.9	25351.7	28115.5	28939.8	28719.1	27525.7	26642.8	25064.5
65°	14692.6	14774.6	15901.7	19216.4	23638.6	27818.6	30301.3	30219.2	28773.8	27896.8	25937.6
67.5°	10729.4	10551.6	11735.3	15132.1	20013.3	26088.0	31277.9	31381.4	29736.8	28154.6	25007.9
68°	9791.8	9844.5	10766.5	14122.2	19064.0	25476.7	31342.4	31500.6	29832.5	27986.6	24500.0
70°	5836.4	5938.0	6760.3	9723.4	14503.1	22017.4	30647.0	31008.4	29262.1	26254.1	21191.2
72.5°	1490.4	1611.5	2388.9	4351.9	8283.9	15513.0	25871.2	26482.6	25406.3	21298.6	14305.8
75°	613.3	644.6	853.6	1433.7	3086.2	6988.8	17052.2	18360.9	17612.7	12751.0	6465.4
77.5°	423.9	445.3	548.9	795.0	1336.0	2369.3	8360.0	9305.4	8383.5	4351.9	1410.3
80°	304.7	322.3	392.6	529.3	767.6	845.8	2724.8	3150.6	2502.2	955.2	349.6
82.5°	181.7	195.3	293.0	377.0	466.8	404.3	677.8	769.6	724.7	474.6	156.3
85°	89.9	105.5	197.3	269.6	252.0	169.9	207.0	230.5	285.2	289.1	84.0
87.5°	5.9	11.7	115.2	162.1	70.3	39.1	60.6	74.2	101.6	142.6	35.2
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°	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6	4908.6
2.5°	4922.3	4924.2	4910.6	4904.7	4908.6	4885.2	4875.4	4879.3	4879.3	4885.2	4875.4
5°	4971.1	4971.1	4947.7	4916.4	4898.8	4853.9	4824.6	4816.8	4810.9	4807.0	4799.2
7.5°	5076.6	5064.9	5023.8	4955.5	4896.9	4799.2	4725.0	4685.9	4666.4	4658.6	4652.7
10°	5246.5	5225.0	5156.7	5029.7	4894.9	4721.1	4559.0	4443.7	4348.0	4308.9	4285.5
12.5°	5475.1	5443.8	5328.6	5117.6	4881.3	4560.9	4209.3	3871.4	3556.9	3428.0	3363.6
15°	5738.7	5693.8	5512.2	5191.8	4801.2	4199.6	3435.8	2844.0	2408.4	2244.3	2174.0
17.5°	6006.3	5947.7	5672.3	5238.7	4560.9	3451.4	2410.4	1820.5	1529.4	1451.3	1423.9
20°	6275.9	6190.0	5811.0	5203.5	4017.9	2488.5	1590.0	1330.2	1246.2	1222.8	1214.9
22.5°	6531.8	6399.0	5936.0	5066.8	3181.9	1670.1	1257.9	1175.9	1148.5	1134.9	1131.0
25°	6754.5	6568.9	6045.4	4644.9	2252.1	1261.8	1132.9	1105.6	1070.4	1045.0	1047.0
27.5°	6963.5	6738.8	6111.8	3949.5	1502.1	1078.2	1048.9	1011.8	947.3	910.2	910.2
30°	7215.4	6965.4	6160.7	3039.3	1105.6	953.2	929.8	873.1	785.2	736.4	736.4
32.5°	7594.4	7309.2	6129.4	2133.0	916.1	838.0	783.3	705.1	609.4	562.5	560.6
35°	8174.5	7840.5	5906.7	1398.6	808.7	728.6	640.7	545.0	461.0	421.9	420.0
37.5°	8955.8	8551.5	5406.7	1000.1	724.7	627.0	521.5	416.0	353.5	328.2	326.2
40°	9969.6	9377.7	4691.8	810.6	646.5	529.3	402.4	322.3	279.3	259.8	261.7
42.5°	11186.4	10262.5	3834.3	699.3	570.4	435.6	314.5	253.9	226.6	212.9	209.0
45°	12538.1	11135.7	2935.8	623.1	494.2	351.6	246.1	201.2	179.7	171.9	171.9
47.5°	14024.6	11985.3	2148.6	556.7	412.1	271.5	197.3	164.1	146.5	140.6	138.7
50°	15374.3	12575.2	1549.0	486.4	337.9	214.9	160.2	136.7	125.0	117.2	117.2
52.5°	16499.4	12760.8	1140.7	410.2	273.5	171.9	132.8	117.2	105.5	99.6	99.6
55°	17489.7	12684.6	847.7	337.9	220.7	140.6	113.3	99.6	89.9	84.0	84.0
57.5°	18439.0	12438.5	632.9	275.4	177.7	113.3	95.7	84.0	74.2	70.3	70.3
60°	19214.4	12028.3	470.7	222.7	142.6	91.8	80.1	68.4	60.6	54.7	54.7
62.5°	19843.4	11575.2	345.7	183.6	113.3	72.3	62.5	56.6	44.9	39.1	39.1
65°	19847.3	10823.1	259.8	152.4	87.9	56.6	46.9	44.9	29.3	23.4	21.5
67.5°	18411.6	9330.8	199.2	130.9	68.4	43.0	35.2	37.1	15.6	9.8	7.8
68°	17890.1	8951.9	187.5	128.9	64.5	41.0	33.2	37.1	13.7	7.8	5.9
70°	15083.2	7121.7	150.4	125.0	56.6	31.3	27.3	37.1	11.7	5.9	3.9
72.5°	9647.3	4133.1	111.3	99.6	43.0	23.4	17.6	33.2	11.7	3.9	2.0
75°	4105.8	1281.4	76.2	70.3	25.4	17.6	11.7	21.5	7.8	2.0	0.0
77.5°	865.3	289.1	44.9	43.0	17.6	11.7	7.8	5.9	2.0	0.0	0.0
80°	222.7	84.0	23.4	21.5	9.8	5.9	3.9	0.0	0.0	0.0	0.0
82.5°	70.3	33.2	13.7	9.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	5.9	2.0	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)