

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: P321609

Luminaire Tested: **GAN-SA5C-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321609  
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-SA5C-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 27189 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

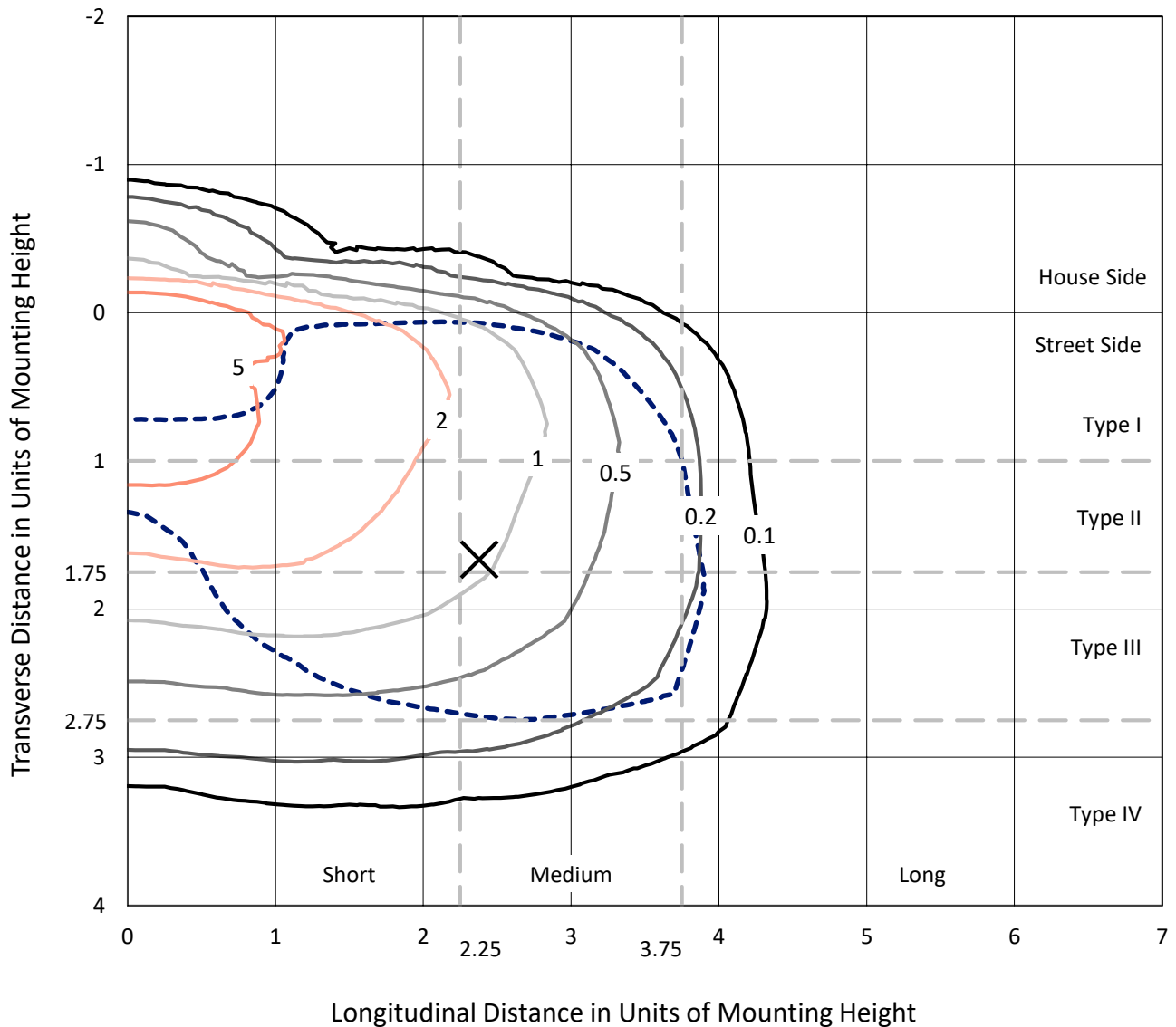
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

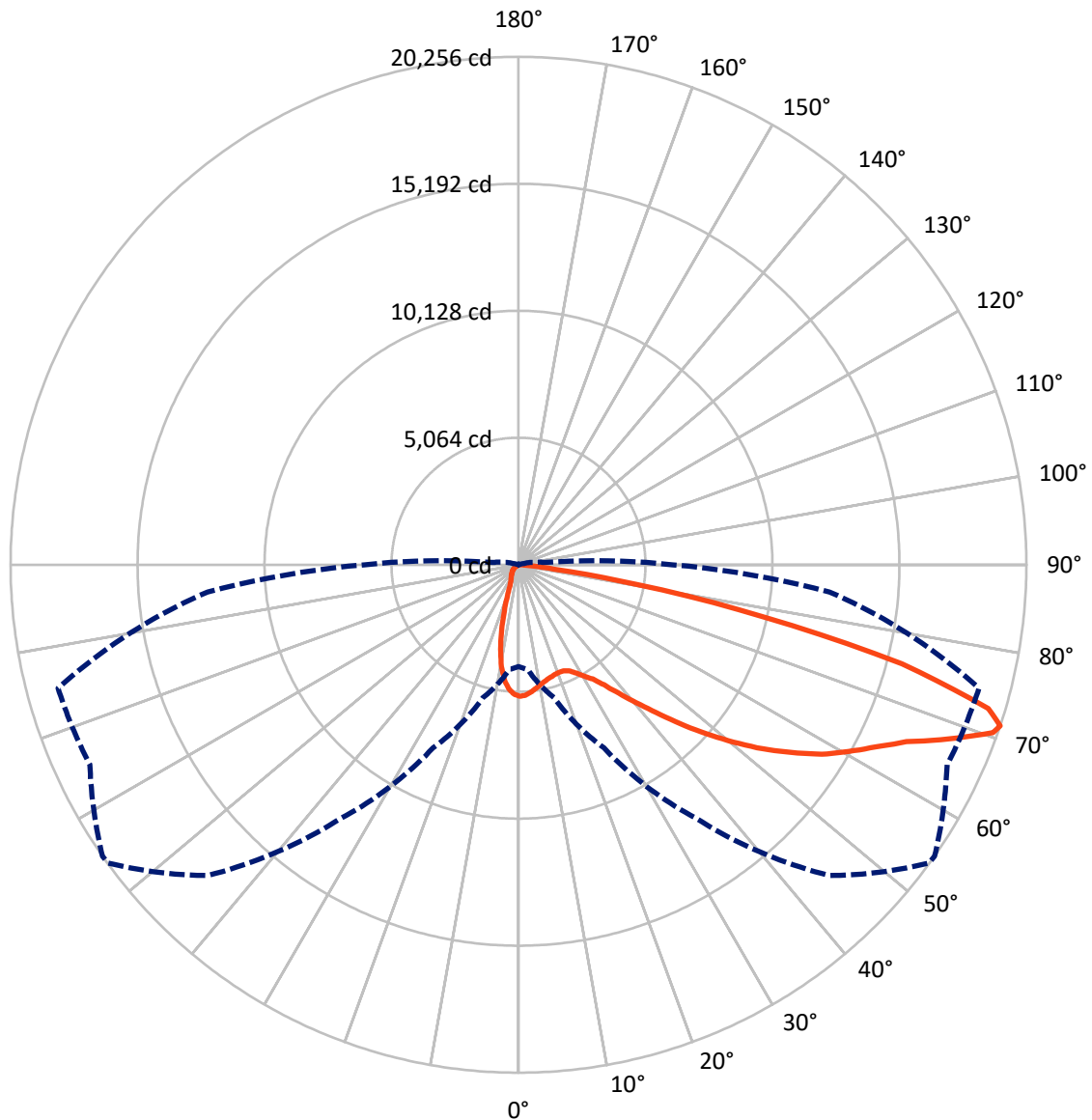
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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
<b>House Side</b>	Lumens	2152.6	0.0	2152.6
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	25036.4	0.0	25036.4
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	27189.0	0.0	27189.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.1	1.6
10°-20°	1009.3	3.7
20°-30°	1622.0	6.0
30°-40°	2755.9	10.1
40°-50°	4277.4	15.7
50°-60°	5750.9	21.2
60°-70°	7035.3	25.9
70°-80°	4113.4	15.1
80°-90°	177.8	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°	27189.0	100.0
0°-180°	27189.0	100.0

**Coefficient of Utilization**

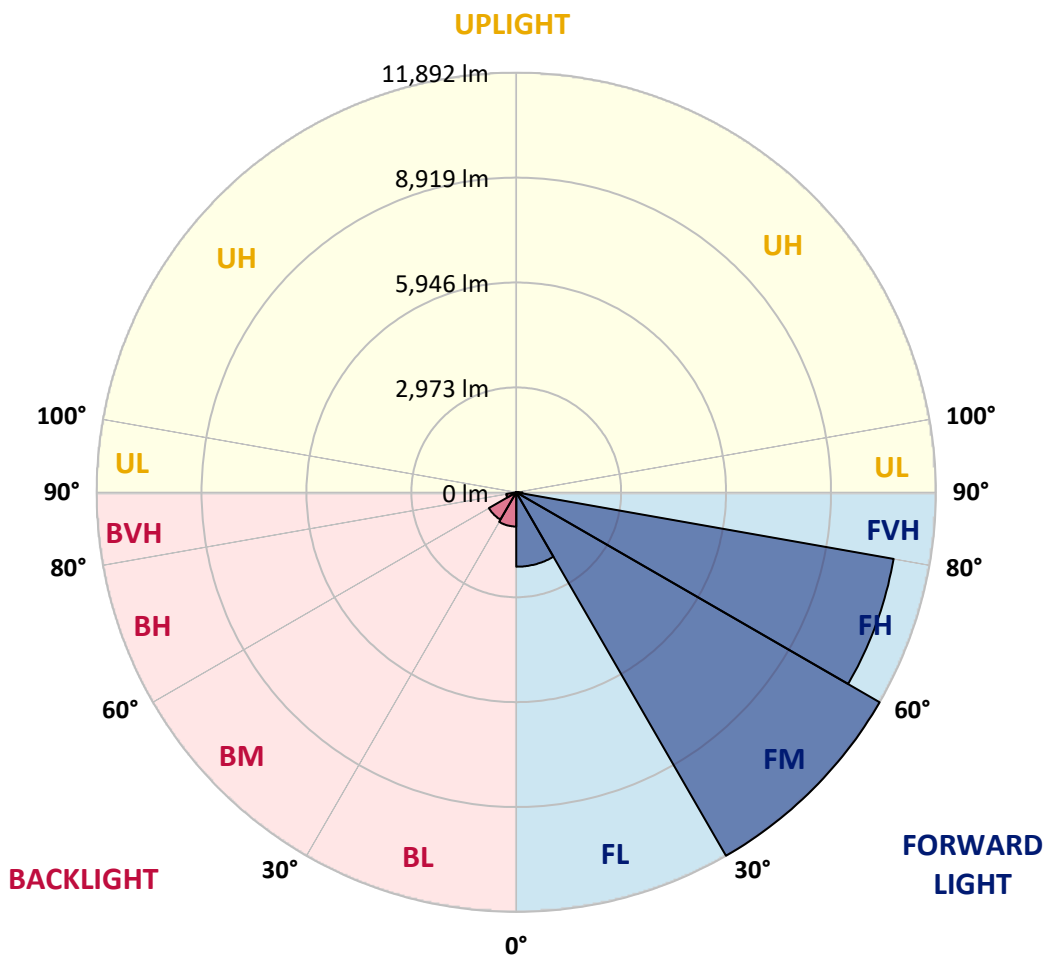


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.5	7.8			
FM (30°-60°)	11891.7	43.7			
FH (60°-80°)	10860.2	39.9			G4/12000
FVH (80°-90°)	175.0	0.6			G2/225
BL (0°-30°)	968.9	3.6	B2/1000		
BM (30°-60°)	892.5	3.3	B1/1000		
BH (60°-80°)	288.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5
2.5°	5089.7	5095.8	5117.7	5127.5	5150.7	5189.8	5209.3	5210.5	5242.3	5254.5	5264.3
5°	4729.5	4766.1	4802.8	4841.8	4912.6	5006.7	5099.4	5108.0	5210.5	5286.2	5326.5
7.5°	4419.4	4452.4	4496.3	4558.6	4658.7	4806.4	4961.5	4979.8	5173.9	5346.0	5436.4
10°	4100.8	4127.7	4191.1	4282.7	4420.7	4618.4	4827.2	4857.7	5140.9	5426.6	5585.3
12.5°	3760.2	3776.0	3853.0	3984.8	4187.5	4439.0	4713.7	4753.9	5120.2	5519.4	5761.1
15°	3501.4	3508.7	3581.9	3718.7	3950.6	4277.8	4625.8	4674.6	5125.1	5630.5	5952.8
17.5°	3435.4	3439.1	3478.2	3572.2	3777.3	4133.8	4556.2	4616.0	5139.7	5739.2	6145.7
20°	3702.8	3677.2	3636.9	3622.2	3710.1	4047.1	4514.7	4581.8	5159.3	5835.6	6319.1
22.5°	4436.5	4360.8	4193.6	3970.2	3834.6	4053.2	4525.6	4592.8	5221.5	5954.0	6519.3
25°	5525.5	5420.5	5136.1	4696.6	4274.2	4229.0	4617.2	4685.6	5342.4	6095.6	6710.9
27.5°	6764.7	6660.9	6312.9	5685.4	4965.1	4576.9	4827.2	4890.7	5521.8	6221.4	6857.4
30°	7951.3	7922.0	7511.8	6798.8	5834.4	5140.9	5098.2	5151.9	5654.9	6297.1	6973.4
32.5°	8957.3	8910.9	8581.3	7887.8	6829.4	5818.5	5416.9	5432.7	5755.0	6394.7	7124.8
35°	9890.0	9832.6	9543.3	8887.7	7850.0	6646.2	5907.6	5884.4	5973.6	6591.3	7344.6
37.5°	10704.3	10756.8	10435.7	9811.9	8765.6	7506.9	6569.3	6499.7	6315.4	6911.2	7663.2
40°	11385.5	11385.5	11218.3	10698.2	9754.5	8396.9	7317.7	7226.1	6829.4	7404.4	8067.3
42.5°	11630.9	11683.4	11745.7	11451.5	10639.6	9322.3	8151.5	8056.3	7553.3	8103.9	8577.6
45°	11645.6	11728.6	12047.2	12046.0	11439.2	10241.6	9091.6	9046.4	8481.2	9002.5	9210.0
47.5°	11439.2	11543.0	12068.0	12365.9	12072.9	11097.4	10119.5	10063.4	9571.4	10103.6	9871.7
50°	11120.6	11235.4	11845.8	12491.6	12503.8	11842.1	11202.4	11118.2	10771.4	11362.3	10555.4
52.5°	10550.5	10772.7	11646.8	12520.9	12787.0	12485.5	12232.8	12196.2	12114.4	12574.6	11099.9
55°	9330.9	9577.5	11147.5	12530.7	13049.5	13055.6	13198.5	13208.2	13373.1	13707.6	11505.2
57.5°	8754.6	8893.8	10275.8	12577.1	13439.0	13702.7	14182.5	14258.2	14513.3	14783.1	11967.9
60°	8392.0	8556.8	9846.1	12513.6	14050.6	14551.2	15094.4	15120.1	15393.5	15892.9	12594.2
62.5°	8102.7	8265.1	9575.0	12269.4	14737.9	15571.8	15985.6	15988.1	16193.2	17215.0	13305.9
65°	7388.5	7525.2	9026.9	11994.7	15192.1	16581.4	17020.9	17005.0	17172.3	18609.2	14132.4
67.5°	6355.7	6460.7	7907.4	10953.4	15021.2	17499.5	18583.6	18531.1	18328.4	19814.2	14457.2
70°	4913.9	4951.7	6232.4	9128.2	13419.4	17852.3	20093.8	20066.9	19037.7	19598.1	13266.8
71°	4061.7	4186.3	5492.5	8056.3	12346.3	17526.3	20240.3	20256.1	18859.5	19009.7	12447.7
72.5°	2358.7	2464.9	3981.2	6187.2	10482.1	16166.3	19480.9	19595.7	18026.9	17290.7	10632.3
75°	505.4	540.8	1476.0	2994.7	5766.0	11330.6	15376.4	15785.4	14692.8	11762.8	6408.2
77.5°	351.6	379.7	632.4	1358.8	1905.7	5598.8	9551.8	10013.3	8777.8	4420.7	2051.0
80°	278.4	310.1	493.2	671.5	515.2	1805.6	4474.4	4756.4	2927.6	986.4	345.5
82.5°	155.0	184.3	384.6	362.6	197.8	343.1	1252.6	1416.2	586.0	199.0	81.8
85°	45.2	54.9	247.8	263.7	84.2	65.9	213.6	264.9	111.1	52.5	36.6
87.5°	0.0	0.0	119.6	101.3	24.4	9.8	19.5	22.0	22.0	22.0	24.4
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°	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5	5243.5
2.5°	5264.3	5272.8	5242.3	5202.0	5159.3	5106.8	5051.8	5009.1	5007.9	4987.1	4966.4
5°	5329.0	5324.1	5239.8	5111.6	4960.3	4802.8	4652.6	4482.9	4426.8	4357.2	4334.0
7.5°	5448.6	5414.4	5236.2	4955.4	4623.3	4293.7	3953.1	3610.0	3463.5	3331.7	3308.5
10°	5598.8	5534.1	5213.0	4721.0	4111.8	3503.8	2989.8	2523.5	2318.4	2160.9	2153.6
12.5°	5755.0	5656.1	5148.3	4366.9	3441.5	2587.0	1994.8	1535.8	1364.9	1255.0	1264.8
15°	5918.6	5770.9	5009.1	3889.6	2678.5	1755.6	1225.7	955.9	887.5	859.5	866.8
17.5°	6085.9	5850.3	4815.0	3314.6	1925.3	1132.9	848.5	772.8	772.8	778.9	781.3
20°	6231.2	5893.0	4529.3	2670.0	1305.1	825.3	742.3	731.3	737.4	747.2	748.4
22.5°	6375.2	5895.4	4157.0	2016.8	913.2	722.7	706.9	702.0	705.6	716.6	717.9
25°	6492.4	5866.1	3690.6	1434.5	728.8	681.2	673.9	671.5	673.9	687.3	687.3
27.5°	6540.0	5759.9	3121.7	1008.4	653.1	634.8	632.4	634.8	638.5	648.3	649.5
30°	6544.9	5574.3	2501.5	730.1	592.1	572.6	577.5	586.0	582.3	579.9	582.3
32.5°	6557.1	5359.5	1897.2	600.7	540.8	510.3	504.2	504.2	489.6	481.0	476.1
35°	6597.4	5106.8	1375.9	539.6	488.3	452.9	429.7	402.9	374.8	360.1	356.5
37.5°	6660.9	4841.8	985.2	499.3	441.9	401.7	357.7	310.1	269.8	258.8	258.8
40°	6776.9	4568.4	728.8	467.6	405.3	355.3	289.3	227.1	190.5	184.3	184.3
42.5°	6960.0	4280.3	581.1	439.5	373.6	307.7	221.0	164.8	138.0	134.3	133.1
45°	7150.4	3962.8	507.9	412.6	339.4	252.7	163.6	122.1	106.2	102.6	102.6
47.5°	7340.9	3624.7	472.5	387.0	306.4	196.6	122.1	96.4	89.1	89.1	90.3
50°	7502.0	3271.8	446.8	358.9	263.7	148.9	96.4	81.8	79.4	84.2	85.5
52.5°	7542.3	2925.1	415.1	323.5	211.2	113.5	79.4	72.0	72.0	72.0	72.0
55°	7517.9	2656.5	373.6	279.6	156.3	90.3	68.4	63.5	62.3	62.3	62.3
57.5°	7600.9	2497.8	299.1	217.3	112.3	73.3	59.8	56.2	53.7	52.5	52.5
60°	7768.2	2394.1	213.6	156.3	84.2	61.0	51.3	47.6	44.0	41.5	41.5
62.5°	7990.4	2303.7	158.7	116.0	64.7	48.8	42.7	39.1	34.2	31.7	31.7
65°	8161.3	2142.6	120.9	86.7	48.8	39.1	33.0	31.7	24.4	22.0	20.8
67.5°	7900.0	1788.5	97.7	63.5	36.6	30.5	25.6	24.4	14.7	12.2	12.2
70°	6775.6	1245.3	78.1	46.4	26.9	24.4	20.8	15.9	11.0	9.8	9.8
71°	6144.5	1040.2	70.8	39.1	23.2	23.2	19.5	13.4	9.8	8.5	8.5
72.5°	5104.3	738.6	59.8	30.5	20.8	24.4	20.8	12.2	9.8	8.5	7.3
75°	2963.0	308.9	41.5	20.8	15.9	29.3	26.9	11.0	7.3	6.1	6.1
77.5°	891.2	113.5	23.2	13.4	12.2	25.6	30.5	9.8	3.7	1.2	1.2
80°	162.4	48.8	14.7	8.5	8.5	15.9	23.2	4.9	0.0	0.0	0.0
82.5°	57.4	24.4	8.5	4.9	3.7	7.3	11.0	0.0	0.0	0.0	0.0
85°	33.0	17.1	4.9	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	22.0	4.9	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)