

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: P383420

Luminaire Tested: **GAN-SA7B-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30560.4 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

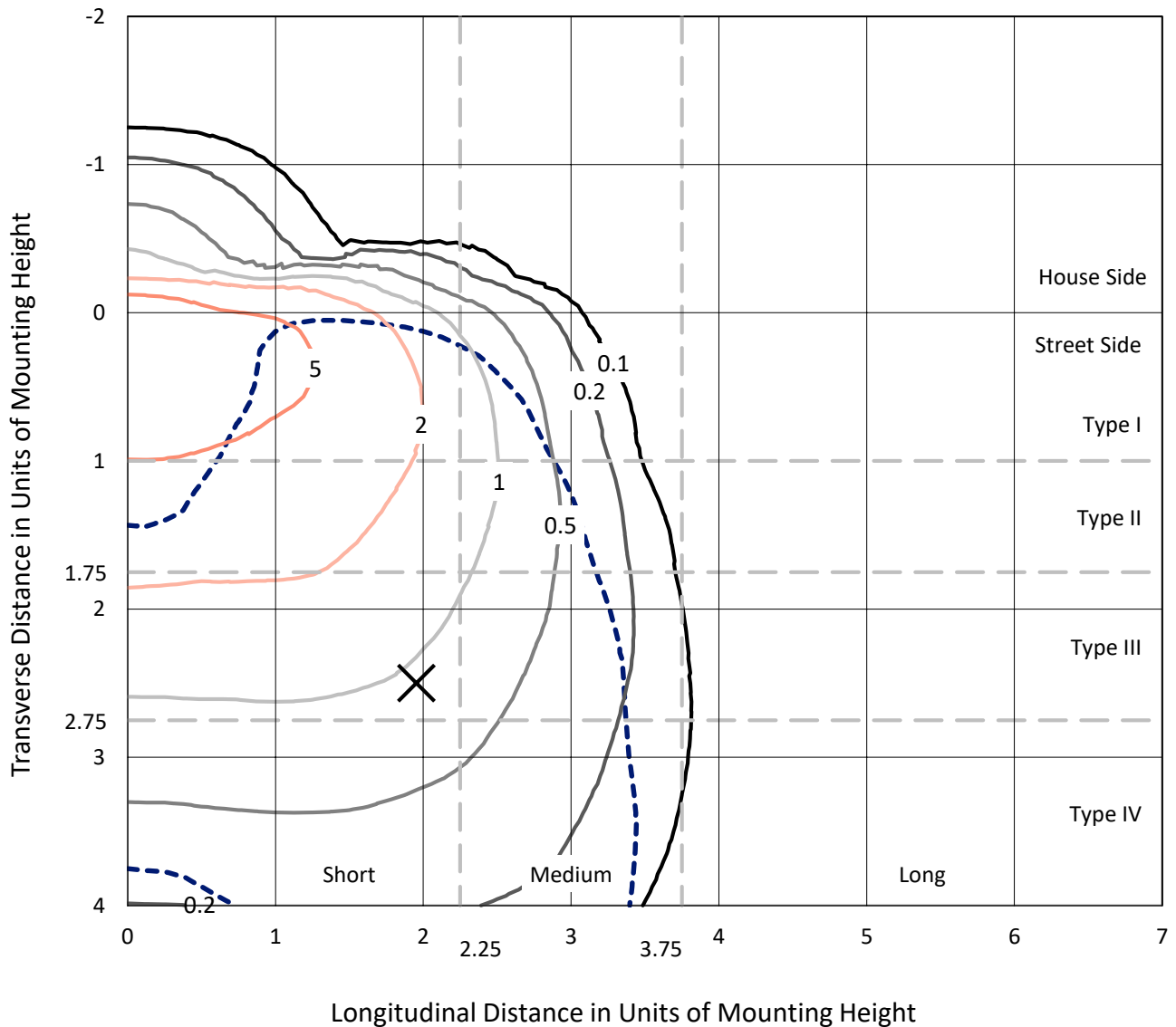
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383420  
 CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

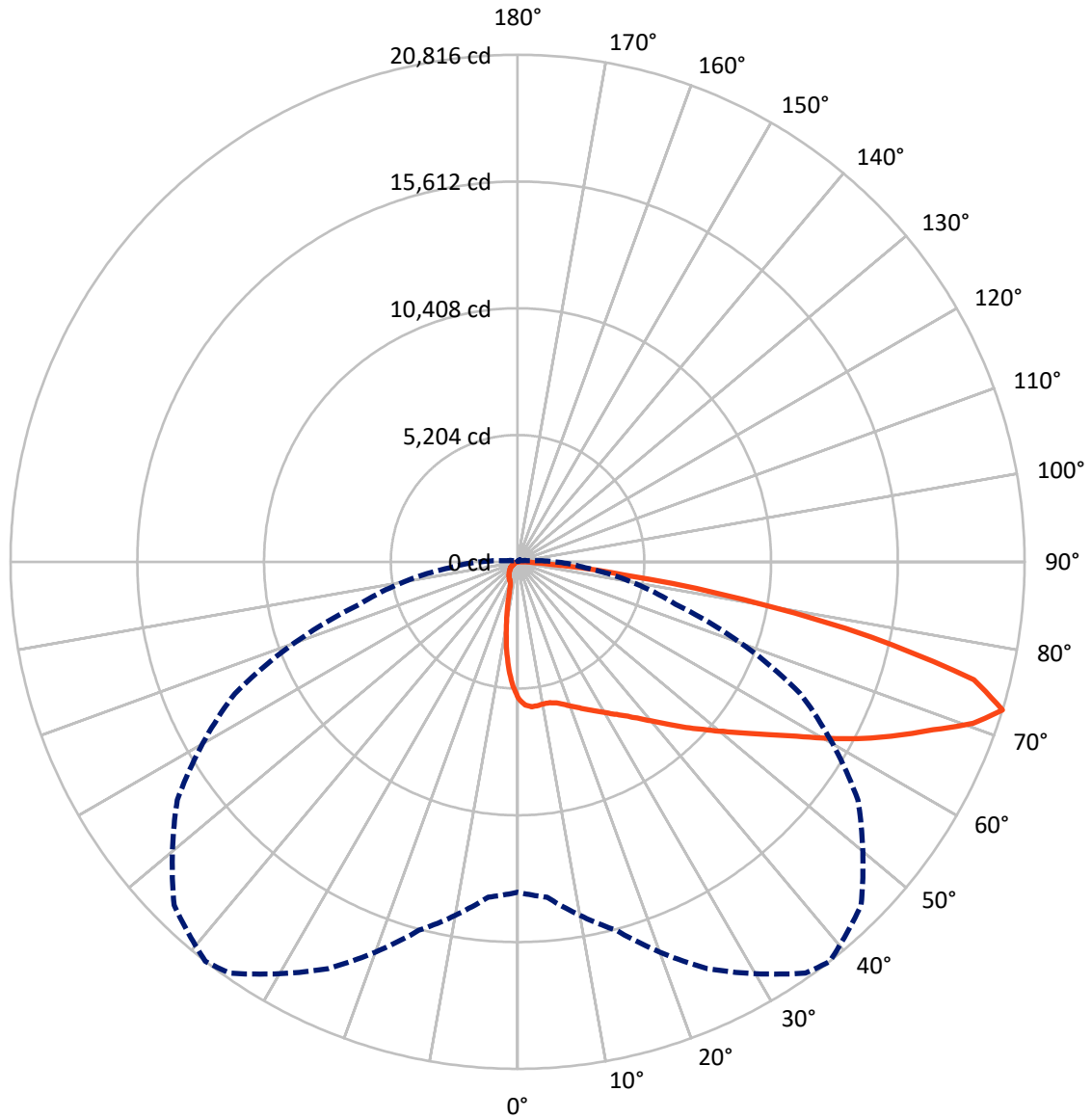
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P383420  
CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P383420  
 CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2571.8	0.0	2571.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	27988.6	0.0	27988.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	30560.4	0.0	30560.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	1.6
10°-20°	1171.1	3.8
20°-30°	1862.6	6.1
30°-40°	2800.2	9.2
40°-50°	4271.9	14.0
50°-60°	6037.6	19.8
60°-70°	7573.2	24.8
70°-80°	5662.6	18.5
80°-90°	702.1	2.3
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°	30560.4	100.0
0°-180°	30560.4	100.0

**Coefficient of Utilization**

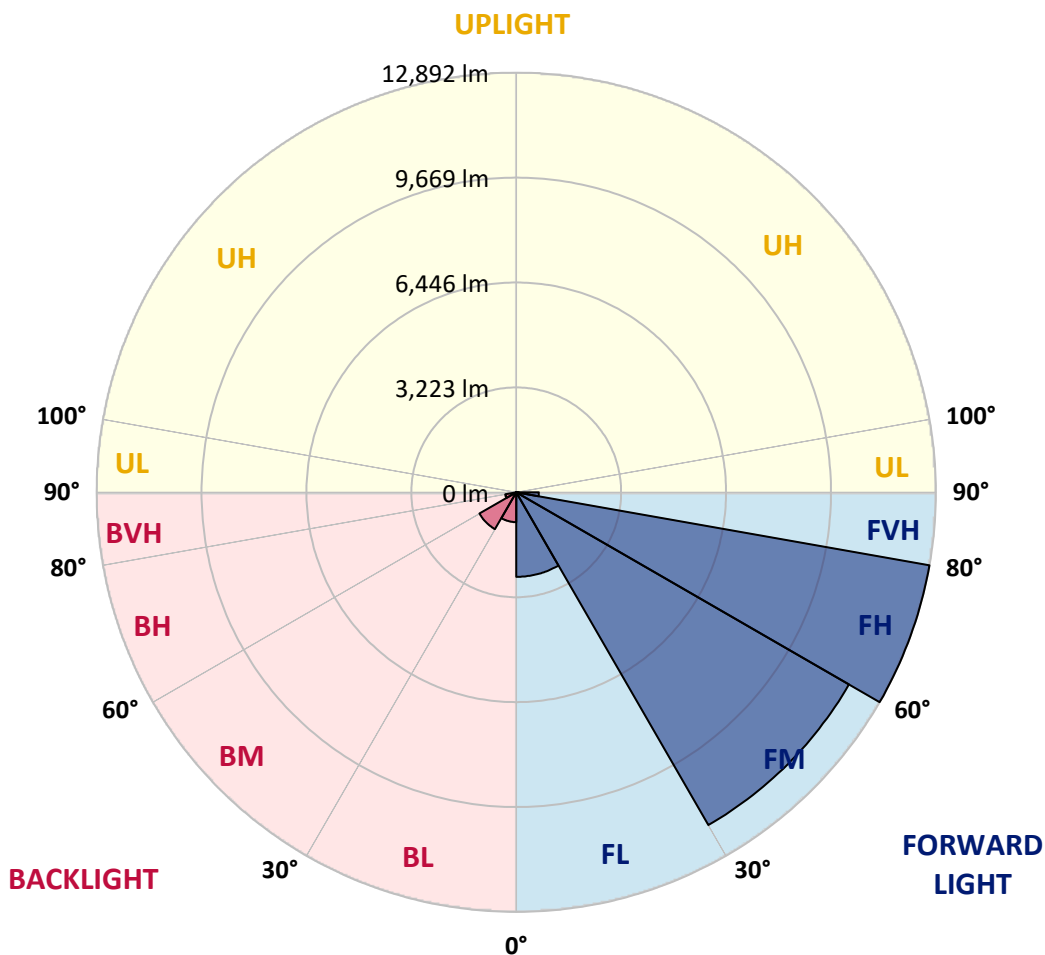


REPORT NUMBER: P383420  
 CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2596.9	8.5			
FM (30°-60°)	11803.8	38.6			
FH (60°-80°)	12892.3	42.2			G5
FVH (80°-90°)	695.6	2.3			G4/750
BL (0°-30°)	915.7	3.0	B2/1000		
BM (30°-60°)	1306.0	4.3	B2/2500		
BH (60°-80°)	343.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	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-G5**  
 Type IV Short





REPORT NUMBER: P383420

CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9
2.5°	5965.2	5966.5	5952.5	5929.7	5900.4	5885.2	5859.8	5819.2	5776.1	5698.6	5614.9
5°	6087.0	6087.0	6069.2	6038.8	5991.8	5977.8	5929.7	5864.9	5776.1	5650.4	5509.5
7.5°	6074.3	6076.9	6052.7	6021.0	5974.0	5961.3	5902.9	5830.6	5720.2	5568.0	5387.7
10°	6008.3	6014.6	5995.6	5980.4	5937.2	5923.2	5868.7	5796.4	5686.0	5523.5	5316.6
12.5°	5941.0	5947.4	5953.7	5967.7	5941.0	5936.0	5892.8	5831.9	5726.6	5557.8	5324.3
15°	5897.9	5910.6	5956.3	6010.8	6017.2	6012.1	5984.2	5927.1	5820.5	5645.4	5378.8
17.5°	5897.9	5918.2	6013.4	6117.5	6154.3	6158.1	6134.0	6054.0	5927.1	5739.3	5429.5
20°	5947.4	5975.3	6123.8	6271.1	6331.9	6331.9	6285.0	6173.3	6024.8	5824.3	5463.8
22.5°	6074.3	6111.1	6297.7	6467.7	6532.5	6518.5	6455.1	6292.6	6126.3	5920.7	5507.0
25°	6324.4	6352.2	6546.5	6717.8	6757.2	6725.4	6645.5	6437.3	6255.8	6051.4	5585.7
27.5°	6646.7	6650.5	6851.1	6995.7	6971.6	6950.1	6849.8	6618.8	6442.4	6238.0	5721.5
30°	7000.9	7000.9	7177.2	7287.7	7214.0	7196.3	7096.0	6838.4	6681.0	6491.9	5914.4
32.5°	7343.5	7358.8	7502.1	7572.0	7489.5	7471.7	7373.9	7116.3	6998.3	6879.0	6215.2
35°	7674.7	7686.2	7822.0	7860.0	7781.4	7786.4	7716.7	7498.3	7454.0	7438.7	6668.3
37.5°	7995.8	7998.4	8136.7	8160.8	8121.5	8164.6	8171.0	7978.1	8060.6	8183.7	7306.7
40°	8289.0	8291.6	8428.6	8490.9	8558.1	8613.9	8663.5	8560.6	8833.5	9119.1	8066.9
42.5°	8523.8	8550.5	8724.4	8842.4	9020.1	9126.7	9261.3	9256.1	9753.7	10182.7	8985.8
45°	8730.7	8776.4	9018.8	9225.7	9530.3	9700.4	9911.0	10076.1	10789.4	11366.8	9916.1
47.5°	9003.6	9046.7	9323.4	9662.3	10068.4	10291.8	10640.9	10997.5	11927.8	12529.4	10824.9
50°	9388.1	9369.1	9642.0	10128.1	10649.7	10942.9	11440.4	11974.8	13057.4	13542.2	11359.2
52.5°	9798.1	9790.5	9992.2	10634.5	11335.1	11677.8	12335.2	12985.0	14137.4	14240.3	11604.2
55°	10305.8	10251.2	10421.3	11212.0	12148.6	12516.7	13290.9	13985.1	14997.9	14633.7	11727.3
57.5°	10837.5	10747.5	10909.9	11855.4	13066.3	13501.6	14349.4	14959.9	15570.4	14902.8	11725.9
60°	11387.1	11280.5	11473.4	12660.1	14206.0	14709.9	15496.8	15618.6	16104.7	15038.5	11639.7
62.5°	11846.6	11783.1	12070.0	13520.6	15479.0	15974.0	16363.6	16217.6	16555.3	15143.9	11437.9
65°	12332.7	12336.5	12799.7	14524.5	16831.9	17165.7	17198.7	16994.4	16932.2	15122.4	10755.1
67.5°	12990.1	13051.0	13824.0	15887.6	18148.0	18405.7	18403.2	17835.9	17207.6	14264.3	9241.0
70°	13685.6	13829.0	15004.3	17447.5	19584.8	19846.2	19711.7	18371.4	16202.4	11534.3	6540.1
72.5°	13568.8	13817.6	15660.4	18431.1	20616.6	20815.9	19941.5	17055.3	12806.1	6703.8	2784.6
75°	10468.3	10756.3	14359.5	17456.4	19534.0	19355.0	17134.0	13271.9	6998.3	1870.7	626.9
77.5°	5529.9	5683.4	9485.9	13298.5	15231.5	14857.1	12070.0	7362.6	2133.5	463.3	281.8
80°	2896.3	2931.9	4133.7	7545.3	9400.8	9403.4	7153.2	3233.9	879.6	237.4	189.1
82.5°	1550.9	1581.4	2184.3	3486.4	4925.7	4465.0	2738.9	1779.4	511.5	134.5	181.5
85°	373.2	379.5	1238.7	1592.9	1936.8	1383.4	813.5	1493.8	138.3	78.7	147.2
87.5°	143.5	146.0	459.4	689.2	493.7	319.8	380.7	557.2	17.8	30.5	22.8
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: P383420  
 CATALOG NUMBER: GAN-SA7B-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9	5619.9
2.5°	5564.1	5531.1	5449.8	5347.1	5255.7	5189.7	5090.7	5026.0	4982.8	4981.5	4965.1
5°	5423.2	5355.9	5180.8	4972.7	4783.6	4613.5	4412.9	4254.3	4136.3	4117.3	4076.6
7.5°	5272.2	5161.8	4892.7	4567.8	4250.5	3928.1	3553.8	3321.4	3122.2	3027.0	3016.8
10°	5179.5	5024.7	4642.6	4173.1	3675.5	3151.4	2661.5	2322.6	2077.6	2007.9	1955.8
12.5°	5160.5	4956.2	4449.7	3802.5	3091.7	2398.7	1856.9	1496.3	1300.9	1238.7	1222.2
15°	5179.5	4924.4	4287.3	3435.6	2500.3	1701.9	1246.3	1036.9	963.3	945.5	944.3
17.5°	5191.0	4886.3	4103.3	3028.3	1926.6	1215.9	954.5	893.5	882.1	880.8	883.4
20°	5189.7	4827.9	3883.7	2573.9	1432.9	955.7	863.1	850.3	847.8	849.1	847.8
22.5°	5180.8	4759.5	3642.5	2105.6	1082.6	854.1	823.7	816.1	814.8	814.8	814.8
25°	5197.3	4704.9	3377.3	1657.6	892.2	807.2	788.2	781.8	780.5	780.5	778.0
27.5°	5257.0	4674.4	3086.7	1275.6	806.0	765.4	750.1	748.8	745.1	743.7	746.3
30°	5353.4	4674.4	2768.1	992.5	753.9	722.1	710.8	708.2	707.0	705.6	707.0
32.5°	5523.5	4709.9	2420.3	825.0	704.4	674.0	666.3	670.2	666.3	666.3	666.3
35°	5830.6	4816.6	2056.1	719.6	652.4	626.9	619.4	624.4	621.9	621.9	620.6
37.5°	6278.6	5014.5	1689.3	656.2	606.6	580.0	569.8	577.5	575.0	575.0	573.6
40°	6824.4	5302.6	1340.2	607.9	562.3	534.3	525.5	529.2	522.9	522.9	525.5
42.5°	7498.3	5668.2	1035.7	561.0	517.8	491.2	486.1	482.3	470.9	464.6	465.8
45°	8247.2	6048.9	807.2	515.3	475.9	454.4	446.8	436.6	417.5	404.9	406.2
47.5°	8916.0	6342.1	656.2	470.9	437.8	421.3	410.0	390.9	363.0	347.7	349.1
50°	9267.6	6386.5	558.5	426.5	402.3	385.8	369.4	340.1	307.1	290.6	289.3
52.5°	9357.7	6178.4	486.1	385.8	366.8	347.7	326.1	286.8	250.0	232.2	229.7
55°	9390.7	5861.1	421.3	347.7	328.7	307.1	279.2	234.8	200.6	182.8	181.5
57.5°	9281.6	5387.7	370.6	313.5	290.6	264.0	229.7	187.8	154.8	140.8	140.8
60°	9039.1	4746.8	331.3	276.7	251.3	220.9	185.3	146.0	115.5	104.1	104.1
62.5°	8555.6	3916.7	294.5	238.6	214.5	182.8	149.8	110.4	81.2	74.9	76.1
65°	7643.1	2971.2	257.7	204.4	182.8	151.0	116.7	78.7	54.6	54.6	57.1
67.5°	6233.0	2063.7	219.6	173.9	157.3	123.2	88.9	54.6	38.1	43.1	48.3
70°	4126.1	1157.5	187.8	143.5	134.5	97.7	66.0	36.8	30.5	40.6	49.5
72.5°	1557.3	450.6	157.3	115.5	116.7	74.9	46.9	27.9	27.9	44.4	58.4
75°	434.1	220.9	113.0	85.1	91.4	54.6	34.3	24.1	26.6	50.8	68.6
77.5°	255.2	162.5	73.6	49.5	62.2	38.1	22.8	19.0	22.8	43.1	66.0
80°	205.6	86.3	43.1	25.3	34.3	21.6	15.2	11.5	6.3	16.5	34.3
82.5°	205.6	52.1	20.3	17.8	17.8	11.5	7.6	5.0	1.3	0.0	8.8
85°	138.3	21.6	12.7	11.5	8.8	3.8	2.5	1.3	0.0	0.0	0.0
87.5°	22.8	8.8	5.0	2.5	1.3	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)