

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: P383166

Luminaire Tested: **GAN-SA5A-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18535 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

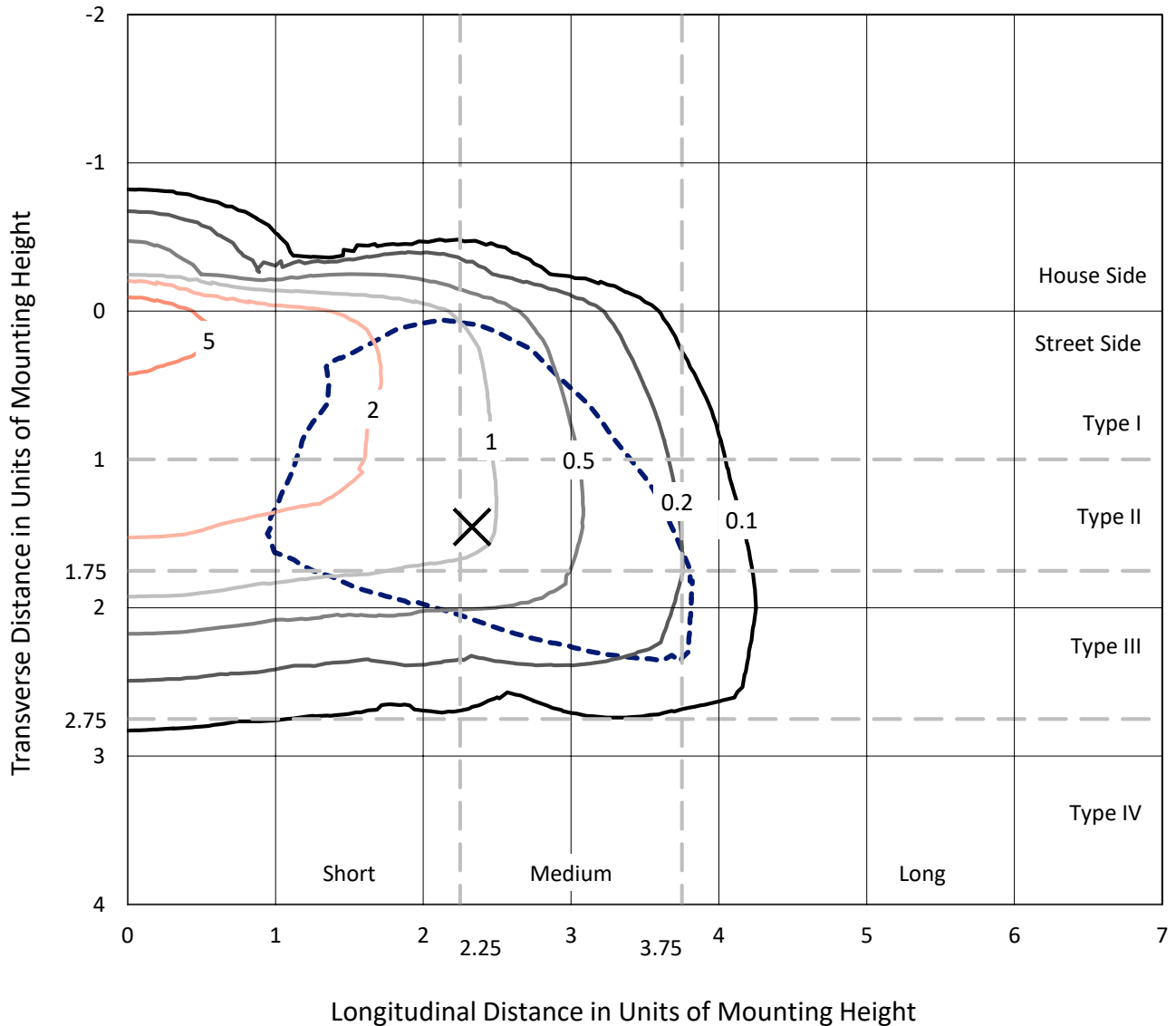
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383166  
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### Iso-Footcandle Lines of Horizontal Illumination

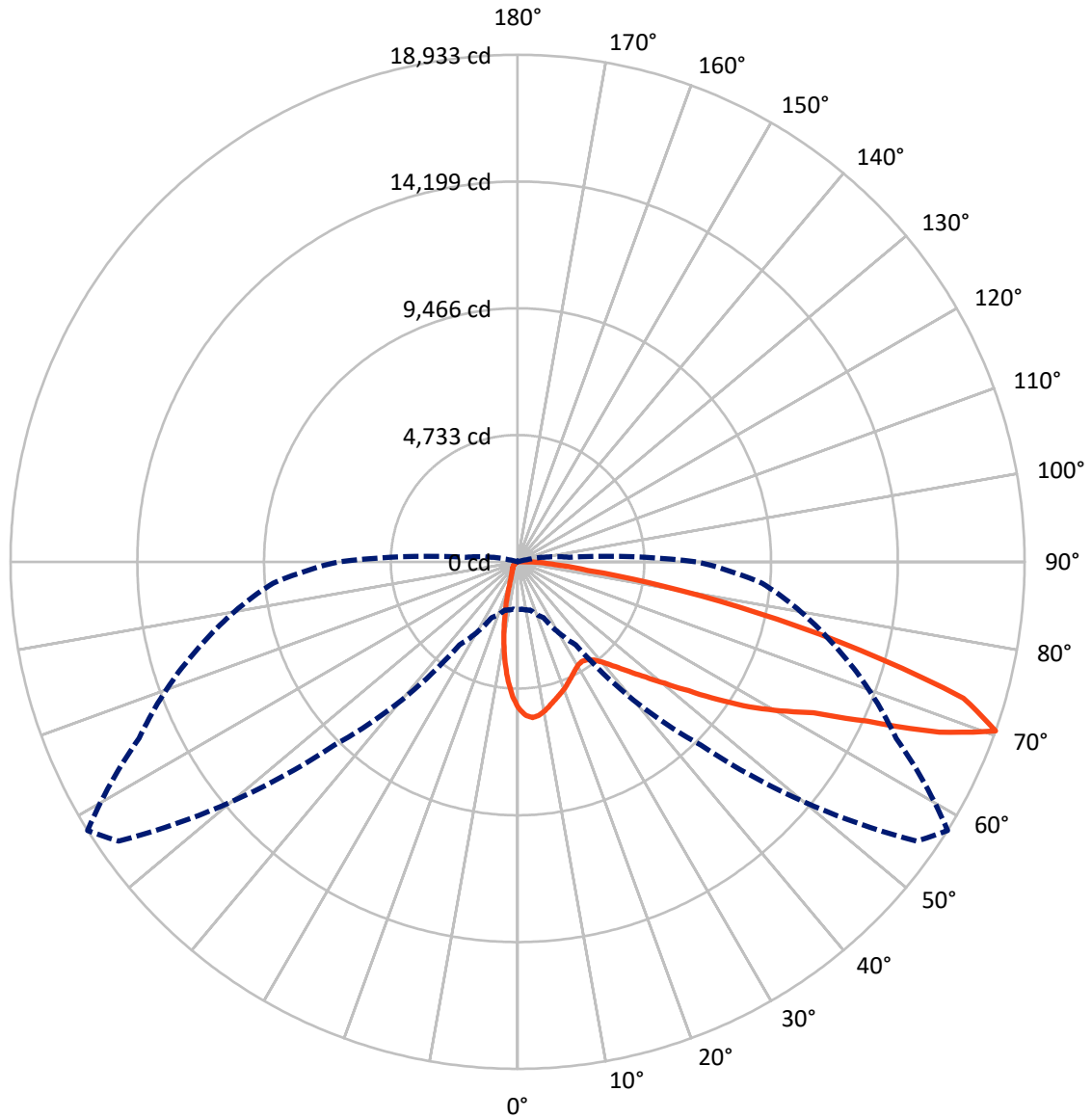
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383166  
CATALOG NUMBER: GAN-SA5A-735-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1586.2	0.0	1586.2
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	16948.8	0.0	16948.8
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	18535.0	0.0	18535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.7	2.4
10°-20°	939.7	5.1
20°-30°	1235.3	6.7
30°-40°	1636.1	8.8
40°-50°	2445.4	13.2
50°-60°	3917.5	21.1
60°-70°	4938.0	26.6
70°-80°	2663.5	14.4
80°-90°	311.8	1.7
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°	18535.0	100.0
0°-180°	18535.0	100.0

**Coefficient of Utilization**

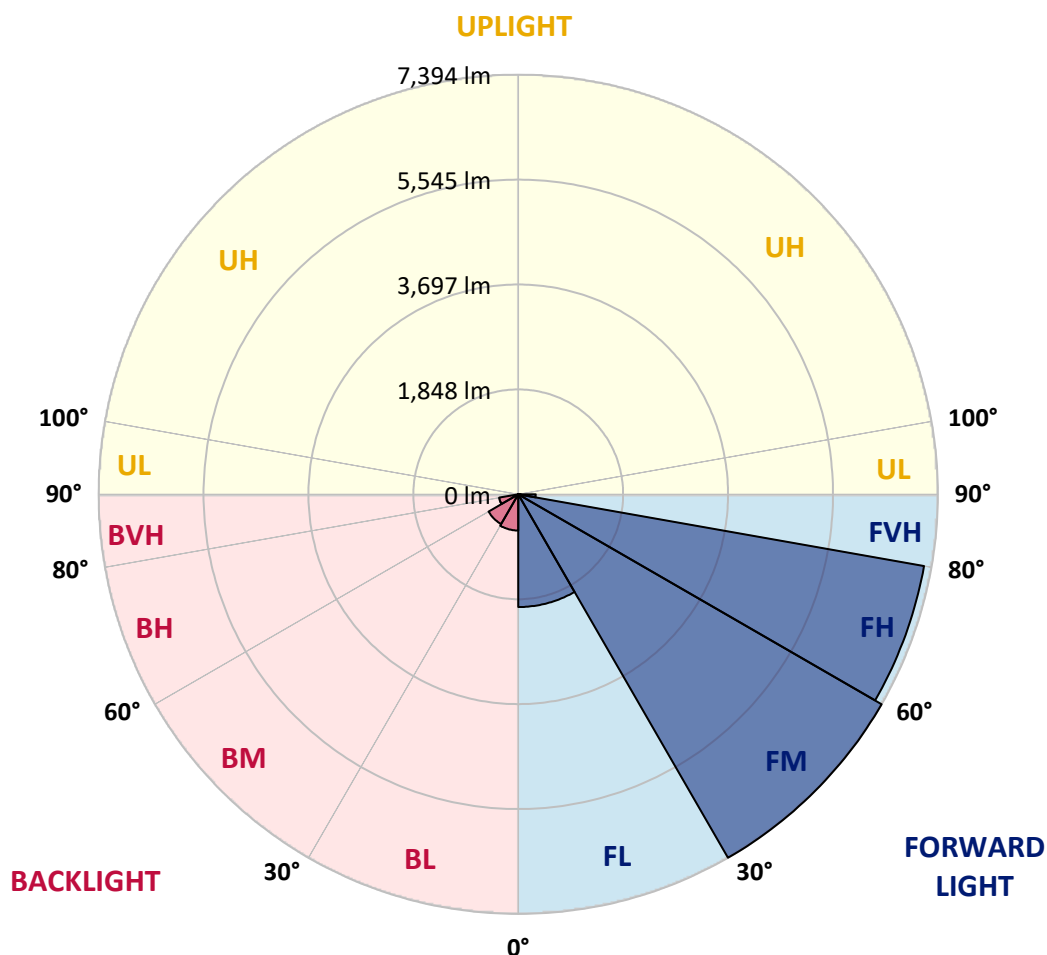


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1985.5	10.7			
FM (30°-60°)	7393.9	39.9			
FH (60°-80°)	7260.4	39.2			G3/7500
FVH (80°-90°)	309.1	1.7			G3/500
BL (0°-30°)	637.3	3.4	B2/1000		
BM (30°-60°)	605.1	3.3	B1/1000		
BH (60°-80°)	341.1	1.8	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-G3**  
 Type III Medium





REPORT NUMBER: P383166

CATALOG NUMBER: GAN-SA5A-735-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	5929.1	5914.5	5909.1	5899.8	5864.4	5829.7	5761.1	5741.8	5698.6	5596.2	5487.5
5°	5933.8	5932.9	5949.1	5945.3	5932.9	5916.7	5867.4	5842.0	5768.8	5622.4	5423.5
7.5°	5647.8	5662.4	5698.6	5727.9	5761.9	5805.8	5811.9	5787.3	5727.2	5569.2	5305.6
10°	5264.0	5287.1	5338.0	5395.8	5484.4	5572.2	5650.9	5647.8	5627.0	5471.3	5163.8
12.5°	4879.4	4906.4	4965.0	5050.5	5176.1	5319.5	5459.7	5479.0	5513.6	5383.4	5032.8
15°	4542.6	4565.7	4623.6	4728.3	4884.0	5076.7	5282.4	5317.9	5407.4	5314.9	4923.3
17.5°	4256.6	4271.3	4313.7	4430.1	4610.4	4844.0	5111.4	5180.7	5314.1	5260.9	4828.5
20°	4057.1	4059.3	4087.1	4168.8	4349.1	4610.4	4934.1	5033.5	5215.5	5214.6	4730.7
22.5°	3958.4	3950.7	3956.1	4003.0	4135.6	4387.7	4756.9	4874.8	5126.8	5175.3	4631.2
25°	3939.9	3933.7	3918.3	3924.5	4004.6	4192.7	4578.0	4714.5	5049.0	5151.5	4544.9
27.5°	3997.7	4003.9	3977.6	3949.9	3956.1	4066.3	4419.3	4577.3	4985.7	5151.5	4484.0
30°	4114.1	4117.2	4097.9	4061.6	4013.1	4030.8	4309.1	4467.1	4954.2	5187.0	4445.4
32.5°	4242.8	4259.8	4257.5	4228.1	4158.8	4087.1	4282.9	4427.0	4951.8	5265.5	4441.6
35°	4402.3	4421.6	4453.9	4447.8	4375.4	4257.5	4372.2	4485.6	4997.3	5395.0	4483.3
37.5°	4571.8	4601.2	4670.5	4703.7	4656.6	4523.3	4572.7	4653.5	5119.0	5604.7	4588.8
40°	4736.1	4769.2	4895.6	5025.8	4990.4	4853.2	4876.3	4941.0	5335.6	5906.0	4789.2
42.5°	4897.1	4946.4	5132.2	5346.4	5388.8	5279.4	5291.7	5343.4	5657.0	6320.6	5116.8
45°	5089.8	5145.3	5420.4	5684.8	5798.0	5750.3	5802.7	5836.6	6077.0	6868.6	5558.4
47.5°	5372.6	5436.6	5774.2	6075.6	6274.3	6305.2	6410.8	6433.2	6608.1	7506.8	6134.1
50°	5924.5	5942.2	6247.4	6521.0	6807.7	6992.7	7112.9	7129.9	7250.9	8204.2	6853.2
52.5°	6618.9	6630.5	6803.1	6986.5	7312.6	7690.2	7971.5	7995.4	8020.8	8884.0	7563.0
55°	7308.6	7307.2	7421.2	7529.1	7902.1	8450.9	9061.3	9075.9	8893.3	9529.1	8105.6
57.5°	7739.5	7781.1	7954.6	8093.3	8614.3	9317.9	10165.0	10218.9	9809.7	10007.0	8642.1
60°	7602.4	7622.4	8006.9	8520.2	9501.3	10550.3	11281.7	11295.6	10498.6	10484.0	9320.2
62.5°	6477.1	6487.9	7092.2	8150.3	9950.7	12148.8	12628.9	12403.1	11290.9	11146.1	10131.8
65°	4439.3	4509.4	5014.2	6322.1	9125.3	13151.5	14714.4	14340.7	12498.7	12100.2	10865.6
67.5°	2614.3	2599.6	2849.3	3812.7	6702.1	12485.5	17352.6	16981.2	14145.6	12739.1	10650.5
70°	1785.8	1775.7	1871.3	2308.3	3783.5	9685.6	18182.7	18932.6	15600.0	12309.1	9166.1
72.5°	1274.7	1280.1	1421.2	1793.4	2375.4	5643.1	15636.2	17411.2	15144.5	10730.7	6967.2
75°	865.5	880.1	1082.1	1471.3	2082.5	2870.9	11095.9	13235.4	12332.2	7798.8	4004.6
77.5°	465.5	481.7	719.8	1185.4	1882.8	1994.6	7137.6	9109.0	7746.5	3506.0	1160.7
80°	194.2	203.4	336.8	861.7	1626.9	1751.9	4199.6	5523.7	3300.9	691.3	259.0
82.5°	84.0	88.6	140.3	514.0	1216.2	1479.0	2223.5	2657.4	1000.4	151.8	130.2
85°	16.2	17.0	57.8	272.1	776.1	834.7	1441.2	1412.7	449.3	65.5	94.8
87.5°	0.0	0.0	13.9	85.5	228.1	454.7	879.4	868.6	152.6	31.6	35.5
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°	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2	5475.2
2.5°	5431.9	5378.8	5267.1	5129.1	5023.6	4907.1	4814.6	4697.5	4646.7	4649.0	4621.2
5°	5310.2	5200.7	4953.4	4641.2	4400.8	4152.7	3939.1	3726.4	3600.8	3559.9	3521.4
7.5°	5136.0	4962.6	4568.0	4087.1	3680.2	3282.5	2936.4	2632.0	2439.4	2345.3	2310.6
10°	4939.5	4695.9	4124.9	3491.3	2910.2	2372.3	1923.7	1533.7	1378.0	1272.5	1245.5
12.5°	4766.8	4437.0	3691.7	2880.2	2190.3	1541.4	1113.7	870.9	765.4	723.7	716.7
15°	4604.3	4195.0	3274.8	2326.8	1516.7	948.8	708.3	625.8	601.1	594.2	594.2
17.5°	4450.8	3964.6	2867.0	1781.9	1003.5	665.1	586.5	568.1	560.3	559.6	560.3
20°	4290.5	3734.1	2466.3	1305.6	700.6	563.4	541.8	531.8	529.5	529.5	529.5
22.5°	4137.2	3503.6	2076.3	932.6	561.8	514.0	503.3	496.3	494.0	493.3	491.7
25°	3990.0	3284.8	1695.6	659.0	493.3	470.9	461.7	452.5	445.5	441.6	439.3
27.5°	3869.0	3089.8	1341.1	528.7	445.5	426.2	414.6	400.8	383.8	376.1	373.0
30°	3772.7	2911.7	1033.6	446.2	400.8	381.5	363.8	339.9	315.2	302.1	301.4
32.5°	3697.1	2736.8	784.5	394.6	360.7	336.8	311.3	281.3	252.8	238.2	237.4
35°	3660.1	2582.6	599.6	356.9	325.2	295.2	263.6	230.5	202.7	188.8	187.2
37.5°	3684.8	2452.4	467.8	325.2	295.2	260.5	223.5	188.8	164.1	151.8	151.1
40°	3775.0	2369.2	380.0	298.3	269.8	227.4	187.2	154.9	134.1	124.1	123.3
42.5°	3966.9	2338.4	324.5	275.9	245.1	196.6	155.7	127.9	108.7	101.7	100.2
45°	4287.4	2383.8	286.7	254.3	219.7	167.2	128.7	104.8	87.8	82.4	81.7
47.5°	4714.5	2503.3	259.7	233.5	196.6	141.0	107.1	84.8	71.6	66.3	65.5
50°	5264.7	2692.9	237.4	212.7	174.9	119.4	88.6	67.1	55.5	51.6	51.6
52.5°	5863.6	2918.7	217.3	193.5	153.3	99.4	71.6	51.6	44.0	39.3	39.3
55°	6358.4	3116.0	195.7	178.8	127.2	82.4	54.7	39.3	32.3	30.1	30.1
57.5°	6852.5	3326.4	171.1	153.3	101.7	67.1	41.6	29.3	23.8	22.4	22.4
60°	7492.9	3583.8	147.2	124.8	80.1	50.9	30.8	20.8	17.7	17.0	17.0
62.5°	8197.3	3734.9	125.7	100.2	62.4	37.7	22.4	13.9	13.1	13.1	12.3
65°	8628.2	3521.4	105.5	80.1	48.5	28.5	14.6	10.1	11.6	10.8	9.2
67.5°	8078.7	2756.8	86.4	62.4	37.7	21.6	9.2	6.9	12.3	10.1	7.7
70°	6689.1	1929.9	67.1	44.0	30.1	18.5	6.1	4.7	13.1	10.1	6.1
72.5°	5005.8	1291.7	53.2	29.3	22.4	16.2	5.4	2.3	11.6	8.5	5.4
75°	2735.3	520.3	42.4	18.5	13.9	11.6	3.8	1.6	7.7	6.1	3.8
77.5°	719.8	137.2	30.8	12.3	7.7	4.7	2.3	0.7	3.8	3.1	1.6
80°	183.4	53.2	20.0	8.5	5.4	2.3	0.0	0.0	0.7	0.0	0.0
82.5°	97.9	22.4	12.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.0	14.6	6.9	3.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	4.7	2.3	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)