

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: P319709

Luminaire Tested: **GAN-SA5A-750-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-750-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23293 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

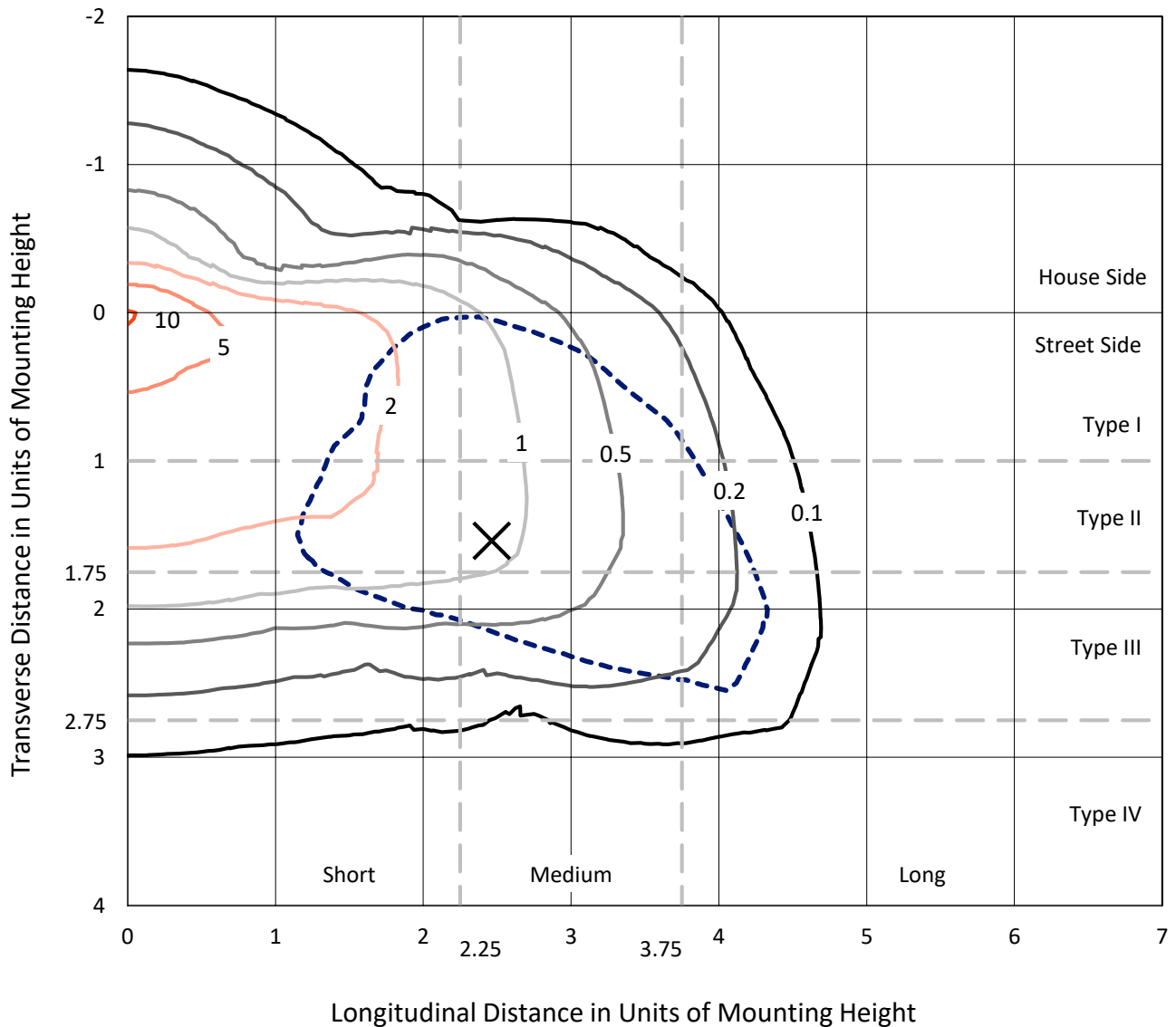
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

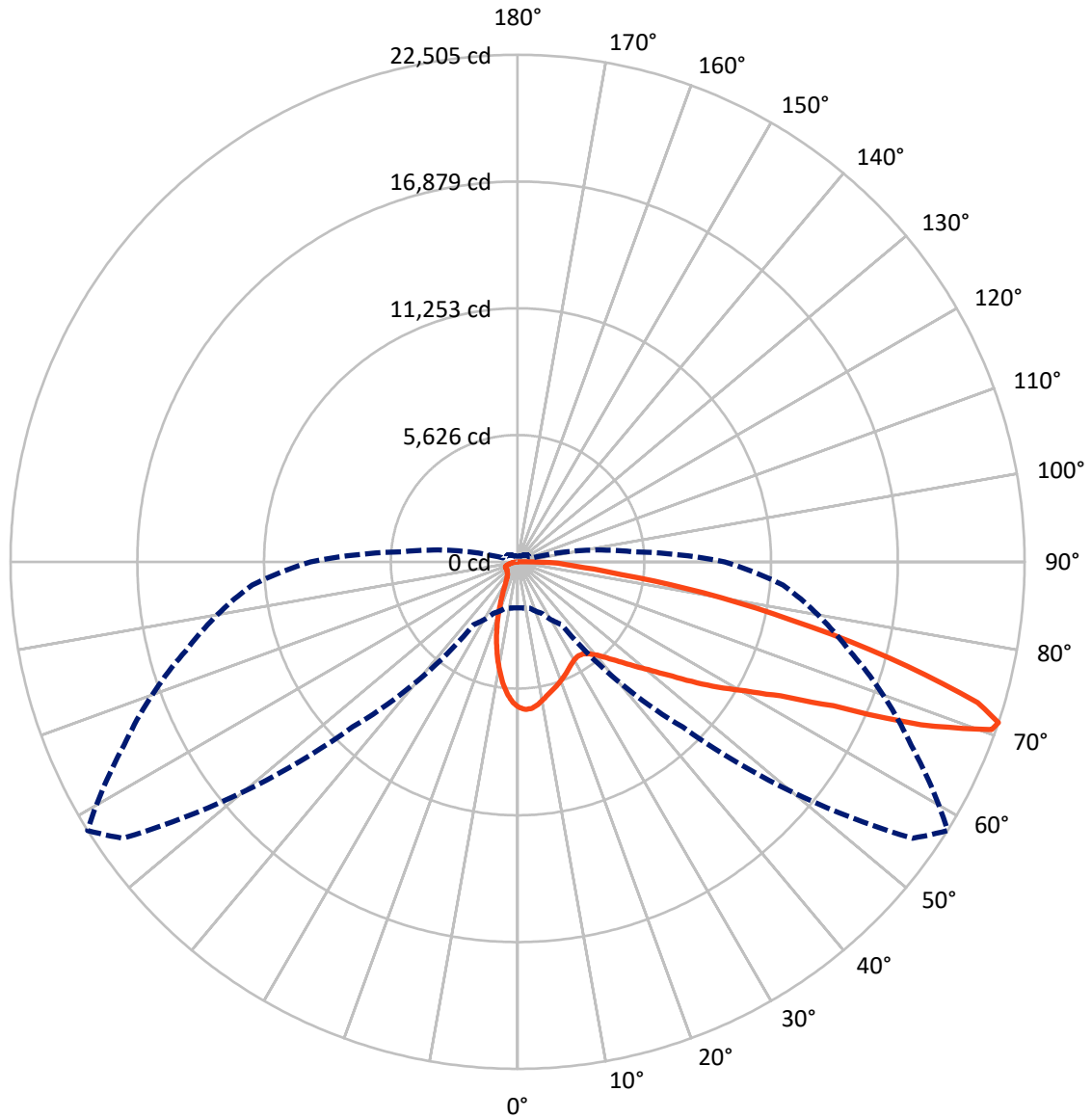
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3482.5	0.0	3482.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	19810.5	0.0	19810.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	23293.0	0.0	23293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.8	2.4
10°-20°	1238.0	5.3
20°-30°	1573.4	6.8
30°-40°	2004.2	8.6
40°-50°	2842.1	12.2
50°-60°	4398.2	18.9
60°-70°	5987.6	25.7
70°-80°	3994.4	17.1
80°-90°	698.4	3.0
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°	23293.0	100.0
0°-180°	23293.0	100.0

**Coefficient of Utilization**

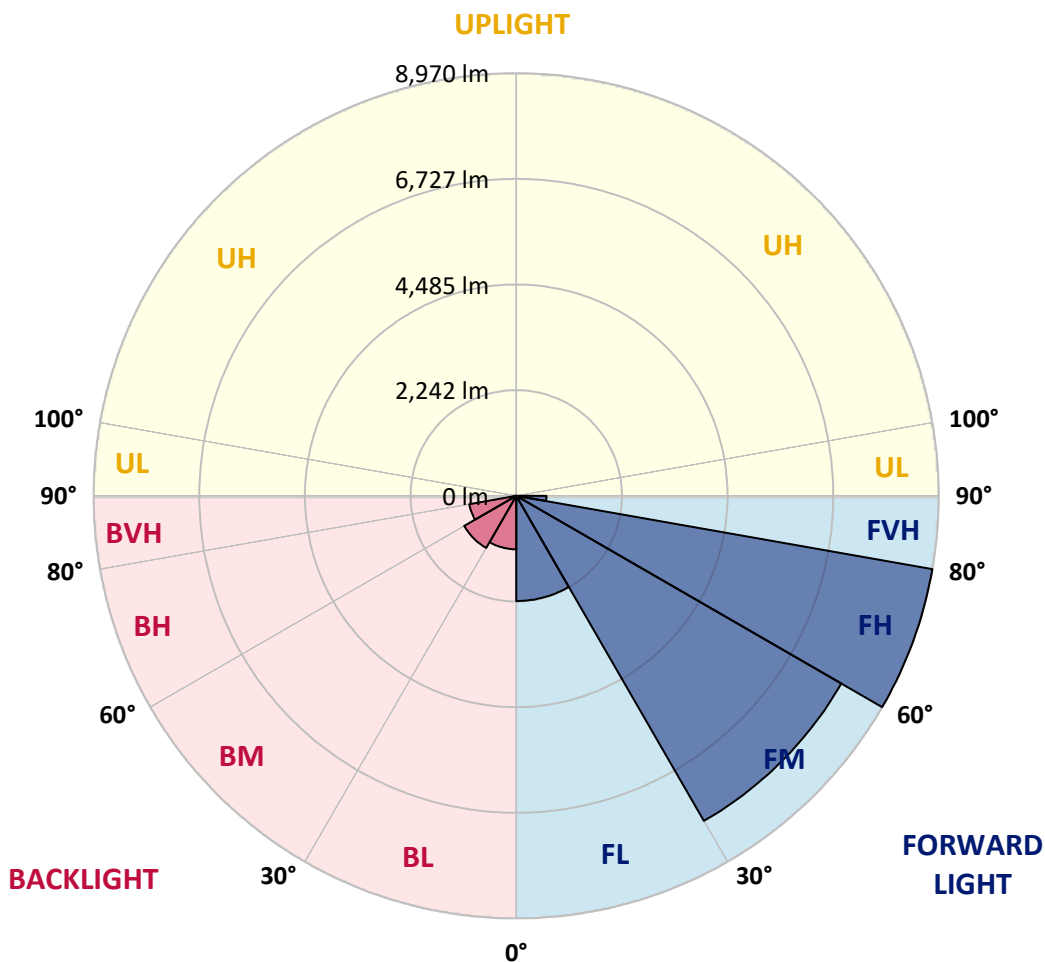


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.0	9.6			
FM (30°-60°)	7967.3	34.2			
FH (60°-80°)	8969.8	38.5			G4/12000
FVH (80°-90°)	640.3	2.7			G4/750
BL (0°-30°)	1135.2	4.9	B3/2500		
BM (30°-60°)	1277.1	5.5	B2/2500		
BH (60°-80°)	1012.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7
2.5°	6624.9	6616.0	6619.2	6612.7	6597.3	6581.9	6559.2	6563.3	6531.6	6484.6	6426.1
5°	6500.0	6496.7	6521.1	6534.9	6546.2	6537.3	6530.8	6538.9	6492.7	6427.8	6326.3
7.5°	6237.9	6202.2	6233.0	6279.3	6323.1	6356.4	6400.2	6405.8	6376.6	6308.5	6175.4
10°	5865.5	5831.4	5876.8	5949.0	6036.7	6116.2	6204.6	6220.9	6226.5	6164.9	6003.4
12.5°	5479.3	5453.3	5498.7	5600.1	5745.4	5867.9	6009.1	6033.4	6083.7	6042.3	5844.4
15°	5133.6	5123.9	5179.0	5278.8	5446.0	5633.4	5837.1	5881.7	5966.9	5953.1	5720.2
17.5°	4835.0	4832.6	4874.8	4979.4	5164.4	5401.4	5665.9	5741.3	5867.9	5884.1	5618.0
20°	4612.7	4607.8	4637.0	4714.1	4904.8	5173.4	5480.9	5584.7	5767.3	5824.1	5512.5
22.5°	4493.4	4492.6	4493.4	4529.9	4685.7	4935.6	5300.7	5427.3	5669.1	5776.2	5395.7
25°	4473.1	4470.7	4452.9	4448.8	4537.2	4736.8	5122.2	5261.8	5575.8	5742.9	5284.5
27.5°	4525.9	4529.1	4505.6	4467.5	4485.3	4606.2	4967.3	5116.6	5501.2	5736.5	5207.4
30°	4635.4	4633.8	4613.5	4573.8	4538.9	4557.5	4856.9	5006.2	5450.9	5764.9	5154.7
32.5°	4756.3	4765.2	4761.2	4739.3	4687.3	4612.7	4823.7	4969.7	5436.2	5833.0	5132.0
35°	4901.5	4911.3	4940.5	4957.5	4896.7	4776.6	4895.1	5021.6	5478.4	5961.2	5168.5
37.5°	5039.5	5064.6	5146.6	5218.8	5166.9	5033.0	5084.9	5175.0	5609.1	6163.2	5266.7
40°	5198.5	5220.4	5354.3	5507.6	5499.5	5360.8	5390.8	5450.9	5839.5	6452.9	5444.4
42.5°	5355.1	5398.9	5592.8	5810.3	5872.8	5750.3	5798.1	5829.8	6164.1	6836.7	5754.3
45°	5563.6	5610.7	5880.1	6142.1	6288.2	6219.2	6295.5	6307.7	6572.2	7359.2	6204.6
47.5°	5879.3	5932.8	6246.8	6521.9	6745.0	6752.3	6878.1	6873.2	7081.7	7957.2	6771.8
50°	6371.0	6448.0	6705.2	6962.5	7233.5	7384.4	7552.3	7528.8	7692.7	8594.1	7424.9
52.5°	7015.2	7050.9	7241.6	7431.4	7768.2	8106.5	8347.5	8326.4	8385.6	9248.9	8166.5
55°	7683.0	7709.7	7788.4	7892.3	8345.0	8896.8	9406.3	9373.1	9223.0	9928.9	8899.2
57.5°	8283.4	8337.7	8392.1	8435.1	8926.0	9722.8	10489.5	10492.0	10131.7	10662.3	9656.2
60°	8376.7	8424.6	8784.0	9123.2	9919.9	10824.6	11649.0	11624.6	11072.1	11458.3	10500.1
62.5°	7404.7	7512.6	8113.0	9015.2	10877.4	12840.1	13128.1	13098.1	12196.7	12439.3	11482.7
65°	5306.4	5428.9	6153.5	7509.3	10413.3	15060.8	15797.6	15393.5	13730.2	13645.8	12633.2
67.5°	3061.3	3090.5	3404.6	4493.4	7928.8	15176.9	19869.9	19304.4	16111.6	15014.6	13196.3
70°	2263.8	2262.9	2337.6	2765.2	4290.6	12386.5	21806.7	22313.8	18618.7	15464.9	12400.3
71°	2047.1	2049.5	2133.1	2516.9	3398.1	10367.8	21395.3	22505.3	19279.2	15242.6	11824.2
72.5°	1751.0	1759.1	1875.1	2257.3	2858.5	7149.9	19623.2	21356.3	19592.4	14694.1	10922.8
75°	1328.2	1346.9	1507.5	1902.7	2612.6	3626.1	14402.0	17053.6	17404.9	12965.9	8116.2
77.5°	947.7	968.8	1150.5	1600.0	2483.6	2732.7	9644.9	12439.3	12808.4	8309.3	3660.9
80°	598.8	624.0	761.1	1273.1	2333.5	2594.8	6061.0	8361.3	6984.4	2658.9	931.5
82.5°	351.3	370.8	472.2	831.7	1905.9	2499.1	3566.0	4634.6	2718.1	803.3	423.5
85°	203.7	212.6	294.5	529.8	1384.2	2358.7	2619.9	2590.7	1179.7	392.7	200.4
87.5°	94.9	105.5	174.4	276.7	768.4	1709.6	2070.6	1789.1	733.5	184.2	94.1
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°	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7	6453.7
2.5°	6397.7	6383.9	6326.3	6275.2	6221.7	6151.9	6074.8	6065.1	6018.0	6026.9	6010.7
5°	6271.2	6236.3	6097.5	5971.8	5823.3	5690.2	5545.8	5479.3	5383.5	5377.0	5352.7
7.5°	6090.2	6025.3	5810.3	5571.7	5333.2	5106.0	4881.3	4733.6	4582.7	4518.6	4512.9
10°	5886.6	5776.2	5459.8	5106.8	4762.8	4430.9	4109.6	3871.9	3657.7	3556.3	3552.2
12.5°	5693.5	5530.4	5096.3	4615.9	4145.3	3715.3	3274.7	2962.3	2693.8	2603.7	2565.6
15°	5529.6	5299.9	4742.5	4128.3	3557.1	2959.9	2458.5	2129.9	1881.6	1795.6	1779.4
17.5°	5370.5	5075.2	4379.8	3635.8	2945.3	2288.9	1786.7	1542.4	1410.2	1375.3	1374.5
20°	5212.3	4843.9	4000.9	3131.9	2353.8	1712.0	1373.7	1264.1	1219.5	1215.4	1209.0
22.5°	5033.0	4598.9	3602.5	2626.4	1837.0	1346.1	1167.6	1123.8	1118.1	1132.7	1132.7
25°	4865.0	4355.5	3198.5	2131.5	1428.8	1123.0	1042.6	1033.7	1049.1	1075.1	1077.5
27.5°	4708.4	4121.0	2804.1	1691.7	1144.9	989.1	955.8	966.4	993.9	1024.0	1024.8
30°	4579.4	3899.5	2421.2	1333.1	967.2	889.3	883.6	904.7	934.7	958.2	963.9
32.5°	4479.6	3710.4	2051.2	1071.8	851.1	814.6	819.5	837.3	856.0	869.0	877.9
35°	4433.4	3548.2	1709.6	903.9	777.3	757.0	763.5	773.2	781.4	791.1	798.4
37.5°	4441.5	3422.4	1404.5	799.2	727.8	717.3	717.3	717.3	717.3	722.1	722.9
40°	4517.0	3350.2	1156.2	732.7	694.5	683.2	674.3	666.1	659.7	662.9	661.3
42.5°	4710.1	3343.7	974.5	690.5	667.8	649.1	631.3	619.9	611.8	615.0	616.6
45°	5037.9	3424.8	851.9	660.5	642.6	614.2	591.5	579.3	573.6	584.2	585.8
47.5°	5462.2	3601.7	777.3	638.6	619.1	581.8	557.4	546.1	547.7	563.1	567.2
50°	6009.1	3888.9	741.6	624.8	602.9	554.2	529.0	519.3	524.2	546.1	550.9
52.5°	6609.5	4302.7	745.7	620.7	592.3	533.9	507.1	495.8	503.9	524.2	528.2
55°	7302.4	4800.1	813.0	626.4	576.9	520.9	489.3	469.8	476.3	494.9	498.2
57.5°	8072.4	5369.7	948.5	624.8	557.4	508.7	470.6	441.4	446.3	457.6	460.9
60°	8874.1	6057.8	1158.7	629.6	548.5	494.1	445.4	408.9	407.3	417.0	418.7
62.5°	9836.4	6853.7	1398.8	632.9	554.2	475.5	412.2	376.5	371.6	374.0	375.7
65°	10827.9	7429.8	1308.8	619.9	572.0	460.1	383.0	344.8	335.9	334.3	335.1
67.5°	10858.7	6812.3	917.7	593.9	579.3	451.9	361.1	318.1	303.5	297.8	297.0
70°	9738.2	5534.4	714.8	566.3	550.1	439.0	340.8	296.2	274.2	265.3	264.5
71°	9191.3	5094.7	677.5	552.5	528.2	426.0	331.9	286.4	263.7	254.0	252.3
72.5°	8333.7	4567.3	632.1	530.6	486.0	392.7	314.8	272.6	249.1	237.7	235.3
75°	5980.7	2986.7	542.8	473.0	402.4	313.2	275.9	245.0	224.8	211.0	209.3
77.5°	2304.3	1188.7	410.6	393.5	308.3	245.0	227.2	211.8	197.2	183.4	182.6
80°	712.4	531.5	299.4	296.2	223.1	182.6	176.9	172.8	167.1	152.5	149.3
82.5°	380.5	305.1	206.1	191.5	146.0	121.7	128.2	129.8	130.6	115.2	113.6
85°	181.7	161.5	116.0	108.7	85.2	68.2	78.7	85.2	86.0	70.6	65.7
87.5°	86.8	84.4	54.4	41.4	31.6	22.7	27.6	34.1	37.3	26.8	23.5
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)