

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: P383167

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383167
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21699.5 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

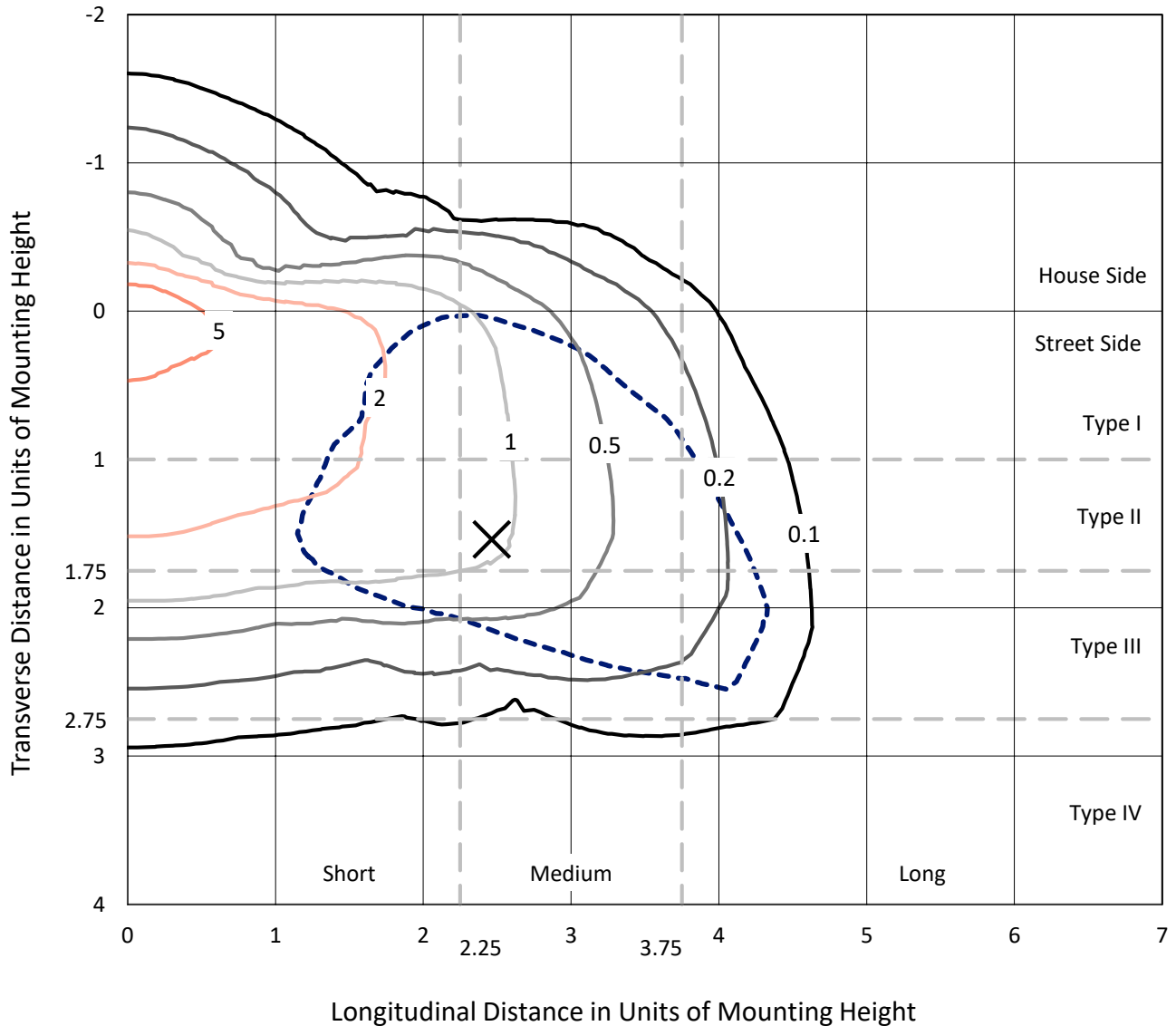
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

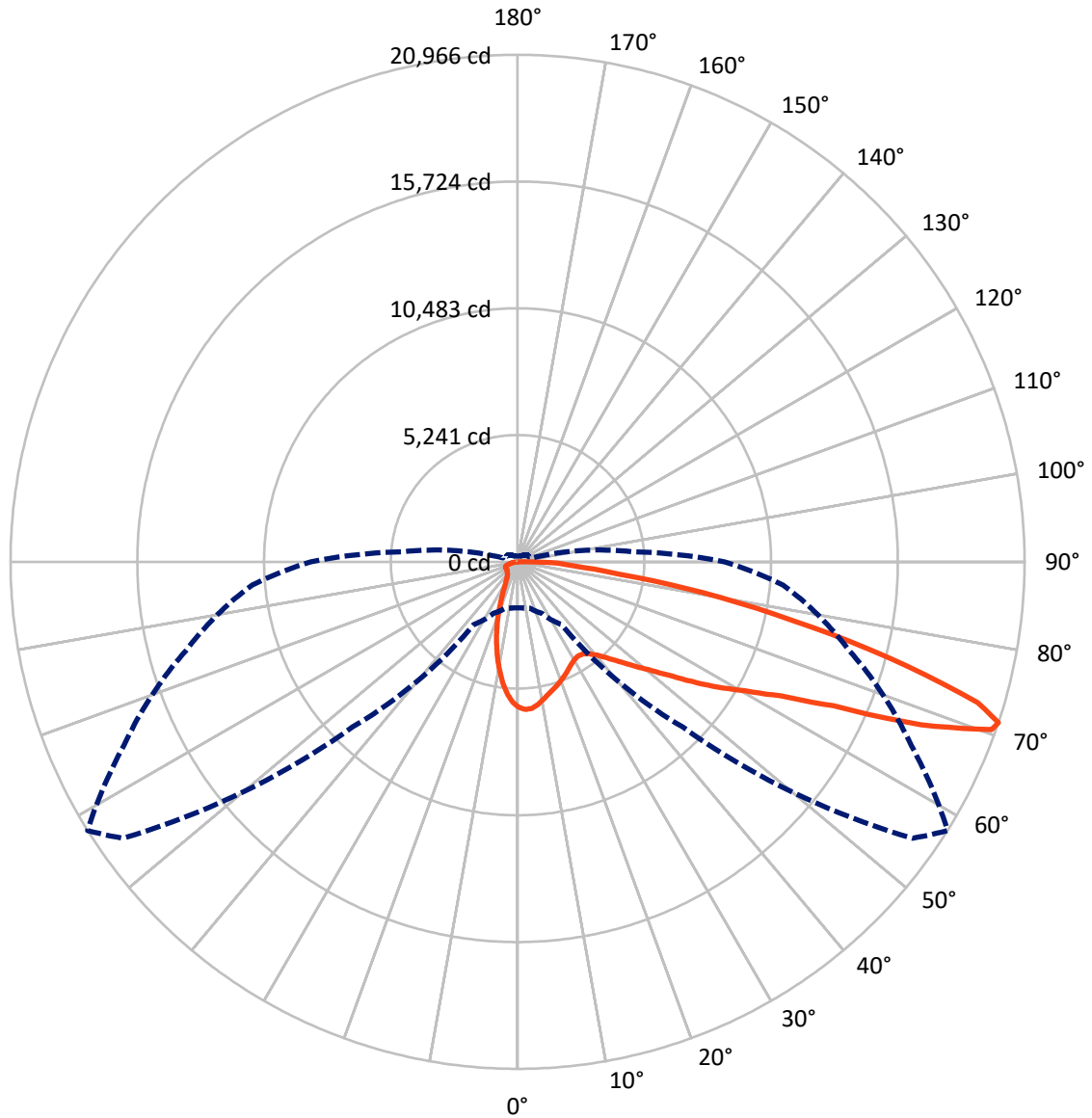
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	3244.2	0.0	3244.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18455.3	0.0	18455.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	21699.5	0.0	21699.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	2.4
10°-20°	1153.3	5.3
20°-30°	1465.8	6.8
30°-40°	1867.1	8.6
40°-50°	2647.6	12.2
50°-60°	4097.3	18.9
60°-70°	5578.0	25.7
70°-80°	3721.1	17.1
80°-90°	650.6	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°	21699.5	100.0
0°-180°	21699.5	100.0

Coefficient of Utilization

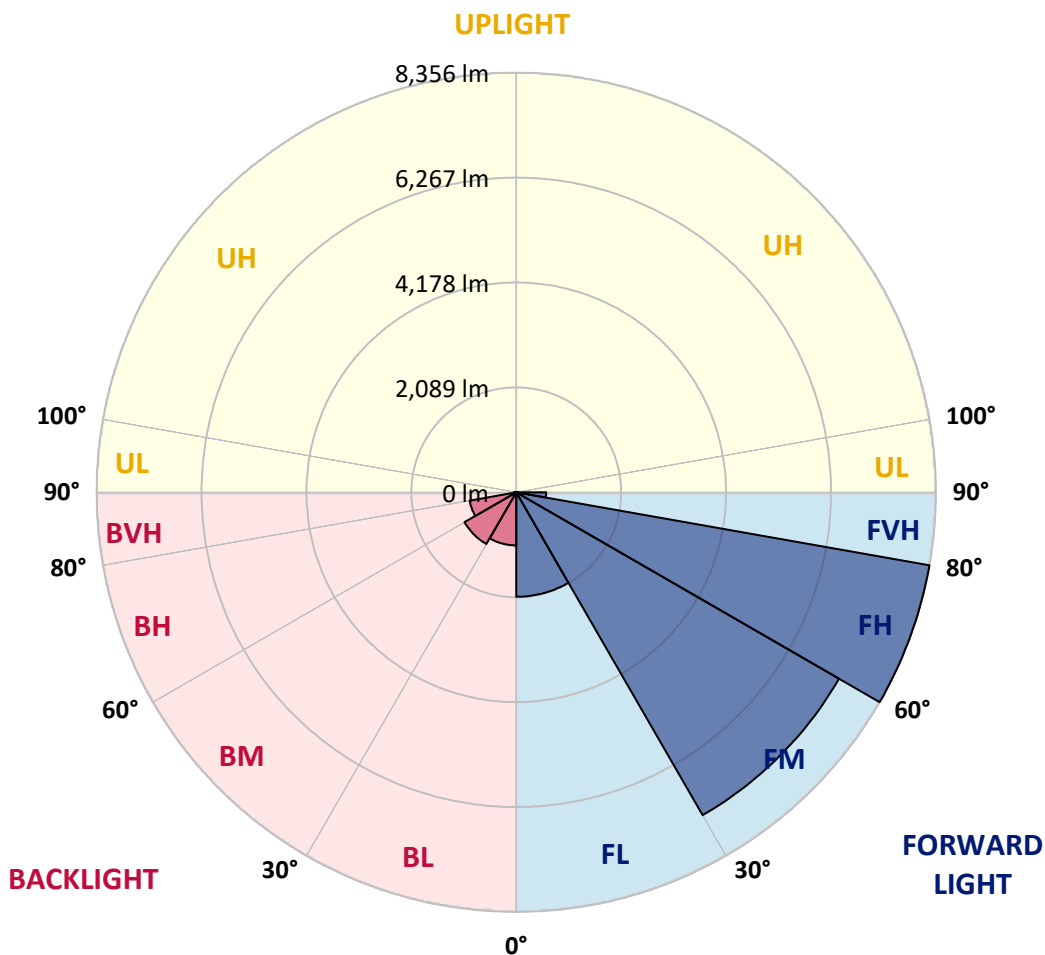


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2080.2	9.6			
FM (30°-60°)	7422.3	34.2			
FH (60°-80°)	8356.2	38.5			G4/12000
FVH (80°-90°)	596.5	2.7			G4/750
BL (0°-30°)	1057.5	4.9	B3/2500		
BM (30°-60°)	1189.7	5.5	B2/2500		
BH (60°-80°)	942.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	54.1	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°	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2
2.5°	6171.7	6163.4	6166.4	6160.3	6146.0	6131.6	6110.5	6114.2	6084.8	6040.9	5986.5
5°	6055.2	6052.3	6074.9	6087.8	6098.4	6090.1	6084.0	6091.6	6048.4	5988.0	5893.5
7.5°	5811.2	5777.9	5806.6	5849.7	5890.5	5921.5	5962.3	5967.6	5940.4	5876.9	5753.0
10°	5464.2	5432.4	5474.8	5542.1	5623.7	5697.7	5780.2	5795.3	5800.6	5743.1	5592.7
12.5°	5104.4	5080.2	5122.6	5217.0	5352.3	5466.5	5597.9	5620.7	5667.5	5629.0	5444.5
15°	4782.4	4773.3	4824.8	4917.7	5073.4	5248.1	5437.7	5479.3	5558.6	5545.9	5328.9
17.5°	4504.2	4502.0	4541.3	4638.8	4811.2	5031.8	5278.2	5348.6	5466.5	5481.6	5233.6
20°	4297.1	4292.6	4319.8	4391.6	4569.2	4819.5	5105.9	5202.7	5372.7	5425.6	5135.4
22.5°	4186.0	4185.3	4186.0	4220.0	4365.1	4597.9	4938.1	5056.1	5281.3	5381.1	5026.5
25°	4167.1	4164.9	4148.2	4144.5	4226.8	4412.7	4771.9	4901.8	5194.3	5350.1	4922.9
27.5°	4216.3	4219.3	4197.4	4161.9	4178.5	4291.1	4627.5	4766.5	5124.8	5344.0	4851.2
30°	4318.3	4316.8	4297.9	4260.8	4228.4	4245.7	4524.6	4663.7	5078.0	5370.5	4802.0
32.5°	4430.9	4439.2	4435.5	4415.1	4366.6	4297.1	4493.7	4629.7	5064.4	5434.0	4780.9
35°	4566.3	4575.3	4602.5	4618.3	4561.7	4449.8	4560.2	4678.0	5103.7	5553.4	4814.9
37.5°	4694.7	4718.2	4794.5	4861.7	4813.4	4688.7	4737.0	4820.9	5225.3	5741.6	4906.4
40°	4842.8	4863.2	4988.0	5130.9	5123.3	4994.0	5022.0	5078.0	5440.1	6011.5	5071.9
42.5°	4988.7	5029.6	5210.2	5412.8	5471.0	5356.9	5401.5	5430.9	5742.3	6369.0	5360.7
45°	5183.0	5226.8	5477.8	5721.9	5858.0	5793.8	5864.8	5876.1	6122.6	6855.7	5780.2
47.5°	5477.0	5527.0	5819.5	6075.7	6283.6	6290.4	6407.6	6403.0	6597.2	7412.8	6308.5
50°	5935.1	6006.9	6246.5	6486.2	6738.6	6879.2	7035.7	7013.7	7166.4	8006.2	6917.0
52.5°	6535.3	6568.5	6746.2	6923.1	7236.7	7551.9	7776.4	7756.7	7812.0	8616.2	7607.9
55°	7157.4	7182.3	7255.6	7352.3	7774.1	8288.2	8762.8	8731.9	8592.0	9249.6	8290.4
57.5°	7716.7	7767.3	7818.0	7858.1	8315.4	9057.6	9771.9	9774.2	9438.5	9932.9	8995.7
60°	7803.6	7848.2	8183.1	8499.1	9241.3	10084.1	10852.1	10829.3	10314.7	10674.4	9781.7
62.5°	6898.1	6998.6	7557.9	8398.5	10133.2	11961.6	12230.0	12202.1	11362.3	11588.3	10697.1
65°	4943.4	5057.6	5732.6	6995.5	9700.9	14030.5	14716.9	14340.4	12790.9	12712.3	11768.9
67.5°	2851.9	2879.1	3171.6	4186.0	7386.3	14138.6	18510.5	17983.7	15009.4	13987.4	12293.5
70°	2108.8	2108.1	2177.7	2576.0	3997.1	11539.2	20314.8	20787.2	17345.0	14406.9	11552.0
71°	1907.1	1909.3	1987.2	2344.7	3165.6	9658.6	19931.6	20965.6	17960.2	14199.8	11015.4
72.5°	1631.1	1638.7	1746.8	2102.9	2662.9	6660.8	18280.8	19895.3	18252.0	13688.8	10175.6
75°	1237.4	1254.7	1404.4	1772.5	2433.9	3378.0	13416.7	15886.9	16214.2	12078.8	7561.0
77.5°	882.8	902.5	1071.8	1490.6	2313.7	2545.7	8985.1	11588.3	11932.2	7740.9	3410.5
80°	557.8	581.3	709.0	1186.0	2173.9	2417.3	5646.4	7789.2	6506.6	2477.0	867.7
82.5°	327.3	345.4	439.9	774.8	1775.5	2328.1	3322.1	4317.5	2532.1	748.3	394.6
85°	189.8	198.0	274.3	493.6	1289.5	2197.3	2440.7	2413.5	1099.0	365.8	186.7
87.5°	88.4	98.3	162.6	257.8	715.8	1592.7	1929.0	1666.7	683.3	171.6	87.7
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°	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2	6012.2
2.5°	5960.0	5947.2	5893.5	5845.9	5796.0	5731.0	5659.2	5650.1	5606.3	5614.6	5599.5
5°	5842.1	5809.6	5680.4	5563.2	5424.9	5301.0	5166.4	5104.4	5015.2	5009.1	4986.5
7.5°	5673.6	5613.1	5412.8	5190.6	4968.3	4756.7	4547.3	4409.8	4269.2	4209.5	4204.2
10°	5483.8	5381.1	5086.2	4757.4	4437.0	4127.8	3828.5	3607.0	3407.5	3313.0	3309.2
12.5°	5304.0	5152.0	4747.6	4300.1	3861.7	3461.2	3050.7	2759.7	2509.5	2425.6	2390.1
15°	5151.3	4937.4	4418.1	3845.9	3313.7	2757.4	2290.3	1984.2	1752.9	1672.8	1657.6
17.5°	5003.2	4728.0	4080.2	3387.1	2743.8	2132.3	1664.4	1436.9	1313.7	1281.2	1280.4
20°	4855.7	4512.5	3727.2	2917.7	2192.8	1594.9	1279.7	1177.7	1136.1	1132.3	1126.2
22.5°	4688.7	4284.3	3356.1	2446.8	1711.3	1254.0	1087.7	1046.9	1041.6	1055.2	1055.2
25°	4532.2	4057.5	2979.6	1985.7	1331.1	1046.1	971.3	962.9	977.4	1001.5	1003.8
27.5°	4386.3	3839.1	2612.3	1576.0	1066.5	921.4	890.4	900.2	926.0	953.9	954.6
30°	4266.1	3632.8	2255.6	1241.9	901.0	828.4	823.1	842.8	870.8	892.7	898.0
32.5°	4173.1	3456.6	1910.9	998.5	792.9	758.9	763.4	780.1	797.4	809.5	817.9
35°	4130.1	3305.4	1592.7	842.0	724.1	705.3	711.2	720.4	727.9	736.9	743.7
37.5°	4137.7	3188.2	1308.5	744.5	678.0	668.2	668.2	668.2	668.2	672.8	673.5
40°	4207.9	3121.0	1077.1	682.5	647.1	636.4	628.1	620.6	614.5	617.5	616.0
42.5°	4387.9	3114.9	907.8	643.2	622.1	604.7	588.1	577.5	569.9	573.0	574.5
45°	4693.2	3190.6	793.7	615.3	598.6	572.2	551.0	539.7	534.4	544.2	545.7
47.5°	5088.5	3355.3	724.1	594.9	576.7	542.0	519.2	508.7	510.2	524.6	528.4
50°	5597.9	3622.9	690.8	582.0	561.6	516.3	492.8	483.8	488.3	508.7	513.3
52.5°	6157.3	4008.4	694.7	578.2	551.8	497.4	472.4	461.9	469.4	488.3	492.0
55°	6802.8	4471.7	757.3	583.5	537.4	485.2	455.8	437.6	443.7	461.1	464.1
57.5°	7520.2	5002.3	883.6	582.0	519.2	474.0	438.4	411.2	415.7	426.3	429.4
60°	8266.9	5643.3	1079.4	586.6	511.0	460.4	415.0	381.0	379.4	388.5	390.0
62.5°	9163.4	6384.8	1303.1	589.6	516.3	443.0	384.0	350.7	346.2	348.5	350.0
65°	10087.1	6921.5	1219.2	577.5	532.8	428.6	356.8	321.3	312.9	311.4	312.2
67.5°	10115.9	6346.3	854.9	553.3	539.7	421.1	336.4	296.3	282.7	277.4	276.7
70°	9072.0	5155.8	666.0	527.6	512.4	408.9	317.5	275.9	255.5	247.1	246.4
71°	8562.5	4746.1	631.1	514.8	492.0	396.8	309.2	266.8	245.6	236.6	235.1
72.5°	7763.5	4254.8	588.8	494.4	452.7	365.8	293.3	253.9	232.0	221.4	219.2
75°	5571.5	2782.3	505.6	440.7	374.9	291.8	257.0	228.2	209.4	196.6	195.0
77.5°	2146.7	1107.3	382.5	366.6	287.2	228.2	211.6	197.3	183.7	170.8	170.1
80°	663.6	495.1	278.9	275.9	207.8	170.1	164.8	161.0	155.8	142.1	139.1
82.5°	354.5	284.2	192.0	178.4	136.1	113.4	119.4	120.9	121.7	107.3	105.8
85°	169.4	150.4	108.1	101.3	79.4	63.5	73.3	79.4	80.1	65.8	61.2
87.5°	80.9	78.6	50.7	38.6	29.4	21.1	25.7	31.8	34.7	25.0	21.9
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)