

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: P323111

Luminaire Tested: **GAN-SA7A-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22832 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

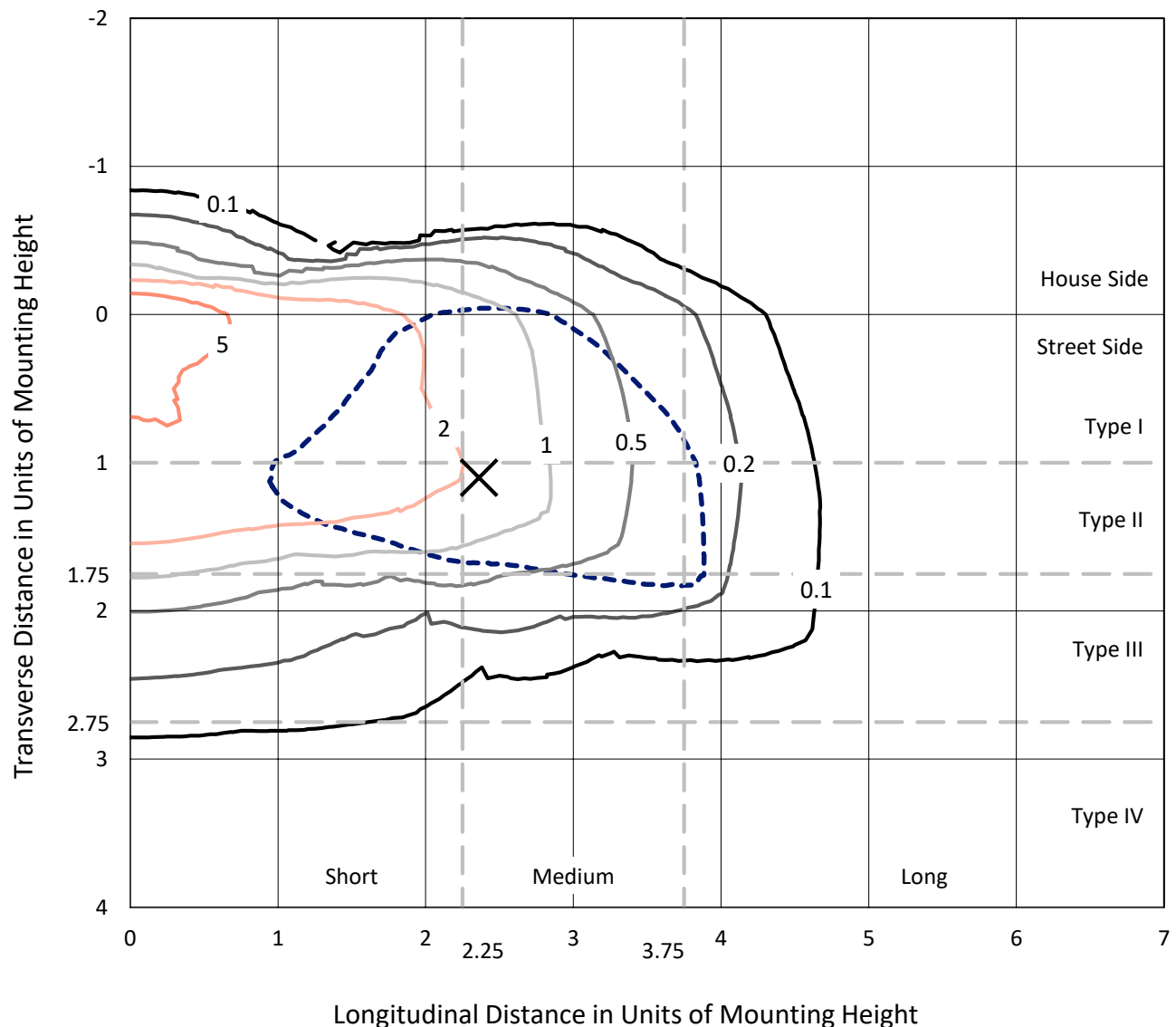
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

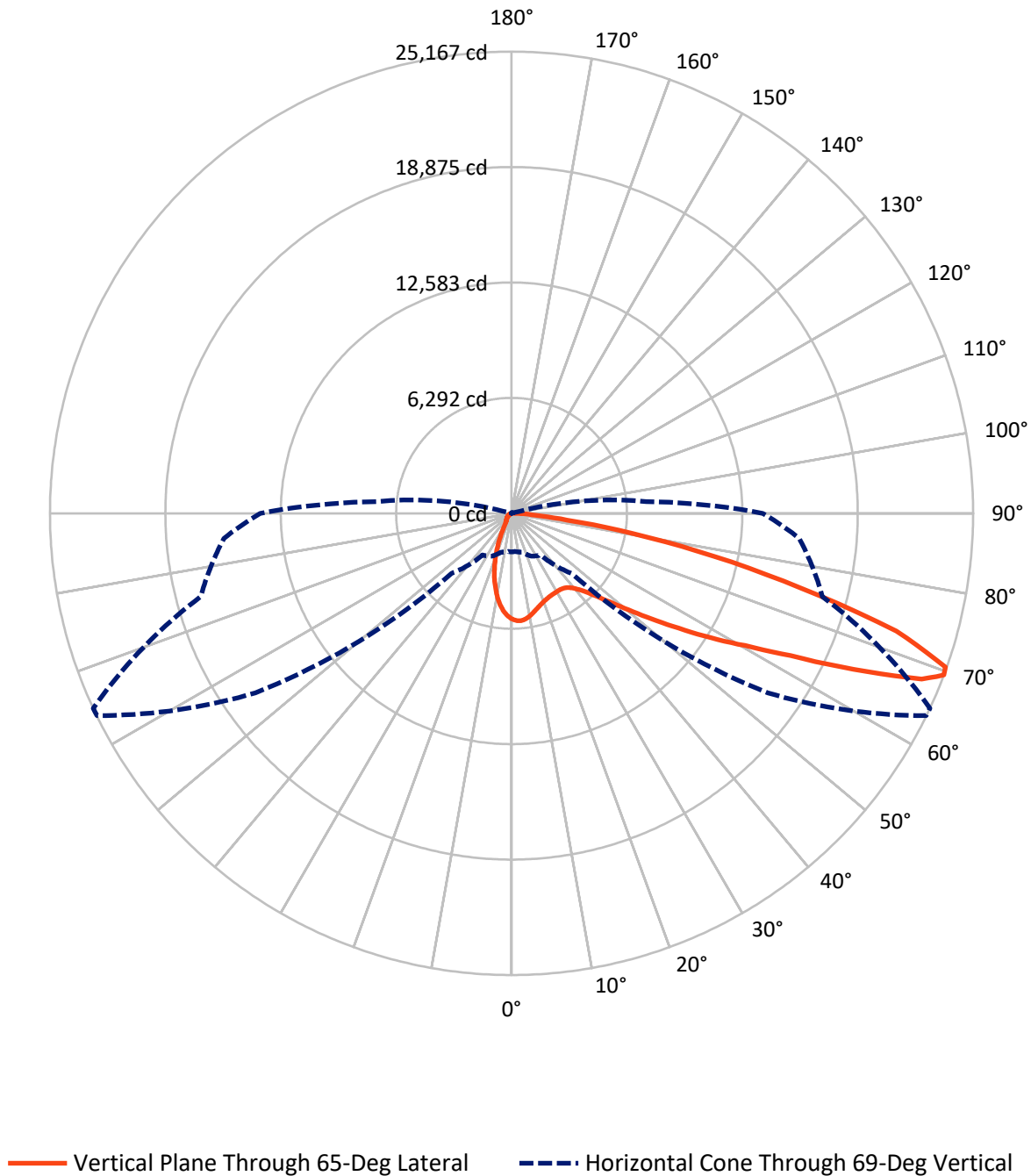
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2691.4	0.0	2691.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20140.7	0.0	20140.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	22832.0	0.0	22832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.5	2.1
10°-20°	1056.1	4.6
20°-30°	1462.8	6.4
30°-40°	2039.6	8.9
40°-50°	3170.2	13.9
50°-60°	5089.4	22.3
60°-70°	5757.0	25.2
70°-80°	3381.1	14.8
80°-90°	393.3	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°	22832.0	100.0
0°-180°	22832.0	100.0

Coefficient of Utilization



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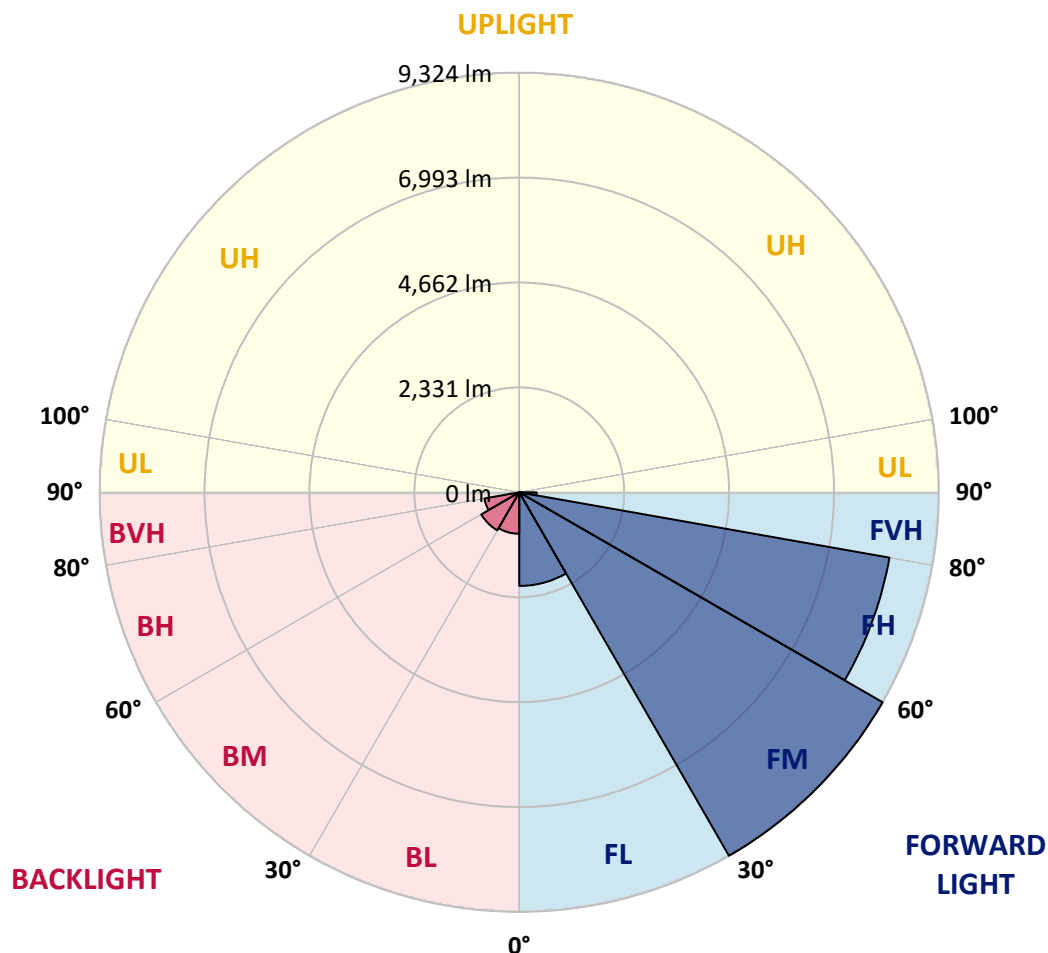
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2080.5	9.1			
FM	(30°-60°)	9323.9	40.8			
FH	(60°-80°)	8351.7	36.6			G4/12000
FVH	(80°-90°)	384.5	1.7			G3/500
BL	(0°-30°)	920.9	4.0	B2/1000		
BM	(30°-60°)	975.3	4.3	B1/1000		
BH	(60°-80°)	786.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	8.8	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°	55°	64°	65°	75°	85°
0°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5820.9	5806.4	5818.0	5843.1	5855.7	5855.7	5865.3	5853.7	5857.6	5829.6	5789.0
5°	5456.7	5434.4	5466.3	5536.9	5623.8	5698.2	5808.3	5866.3	5872.1	5873.1	5825.7
7.5°	5064.4	5044.1	5091.5	5174.6	5286.6	5424.8	5617.0	5785.1	5794.8	5885.6	5850.8
10°	4745.6	4731.1	4786.2	4875.1	5006.4	5161.0	5396.8	5630.6	5658.6	5859.5	5847.0
12.5°	4492.5	4480.9	4533.0	4635.5	4769.7	4940.8	5187.1	5458.6	5496.3	5800.6	5827.7
15°	4307.9	4306.0	4349.5	4448.0	4596.8	4756.2	5008.4	5299.2	5342.7	5736.8	5824.8
17.5°	4211.3	4214.2	4246.1	4330.2	4457.7	4616.1	4857.7	5164.9	5212.2	5679.8	5839.2
20°	4201.7	4204.6	4222.0	4269.3	4372.7	4512.8	4735.0	5051.9	5101.1	5637.3	5862.4
22.5°	4286.7	4284.8	4289.6	4284.8	4342.7	4449.0	4653.8	4964.9	5021.9	5609.3	5880.8
25°	4450.0	4447.1	4445.1	4409.4	4370.7	4427.7	4620.0	4915.6	4969.7	5589.0	5891.4
27.5°	4677.0	4675.1	4672.2	4613.2	4497.3	4461.6	4623.9	4897.3	4942.7	5572.6	5889.5
30°	4975.5	4989.1	4985.2	4903.1	4722.4	4564.9	4664.4	4887.6	4927.2	5540.7	5869.2
32.5°	5326.2	5353.3	5374.5	5286.6	5060.6	4769.7	4758.2	4898.2	4927.2	5516.6	5832.5
35°	5690.5	5725.2	5803.5	5772.6	5475.0	5077.9	4919.5	4962.0	4986.2	5530.1	5815.1
37.5°	6048.9	6090.4	6260.5	6350.3	6018.0	5485.6	5170.7	5119.5	5132.0	5612.2	5834.4
40°	6465.3	6528.1	6786.0	6931.0	6666.2	6031.5	5546.5	5390.0	5394.8	5792.9	5924.3
42.5°	7012.1	7076.9	7356.1	7583.1	7396.6	6721.3	6056.6	5803.5	5798.7	6131.0	6135.8
45°	7678.7	7746.4	8035.2	8287.4	8203.4	7538.7	6709.7	6407.3	6401.5	6664.3	6536.8
47.5°	8434.3	8500.9	8758.9	9018.8	9109.6	8493.2	7541.6	7231.4	7217.9	7405.3	7156.1
50°	9082.5	9126.0	9363.7	9713.4	10123.0	9666.1	8576.3	8277.7	8263.2	8389.8	8065.2
52.5°	9318.3	9343.4	9584.9	10074.7	11096.9	11254.4	9935.6	9551.1	9540.5	9595.5	9275.7
55°	8841.0	8886.4	9183.0	9909.5	11624.4	13049.4	11651.4	11127.8	11047.6	10928.8	10541.4
57.5°	7540.6	7613.0	7931.9	8898.0	11378.0	14473.5	14173.0	12911.3	12793.4	12066.9	11570.3
60°	5649.9	5738.8	6003.5	7045.9	10063.1	14980.7	16928.4	14898.6	14632.9	12973.1	12516.1
62.5°	3877.1	3921.5	4101.2	4780.4	7411.1	14149.8	19233.6	17560.3	17075.3	13958.5	13539.2
65°	2961.2	2976.6	3050.1	3283.9	4413.2	11494.0	20150.4	21072.1	20485.7	15137.2	14601.0
67.5°	2386.3	2373.8	2475.2	2809.5	2955.4	7012.1	19080.9	24394.6	24120.2	16713.0	15669.5
69°	2104.2	2086.8	2190.2	2578.6	2775.7	4635.5	17057.9	25149.1	25166.5	17544.8	15743.0
70°	1893.6	1905.2	2007.6	2441.4	2714.8	3638.4	15125.6	24956.9	25094.1	17855.9	15302.4
72.5°	1264.7	1295.6	1501.4	2026.9	2610.5	2753.5	9132.8	21416.0	21943.6	17155.4	13128.6
75°	713.0	736.2	980.6	1528.4	2459.7	2622.1	4823.9	15777.8	16287.9	14346.0	10124.0
77.5°	349.7	362.3	554.6	986.4	2056.9	2498.4	2736.1	10717.2	11299.8	9363.7	5726.2
80°	147.8	154.6	277.3	608.7	1470.4	2384.4	2031.8	6595.7	6668.2	3668.4	1525.5
82.5°	57.0	58.9	116.9	379.7	934.2	1858.8	1699.4	3127.3	3052.0	690.8	347.8
85°	6.8	7.7	42.5	228.0	519.8	956.5	1380.6	1347.7	1247.3	137.2	178.7
87.5°	0.0	0.0	2.9	69.6	154.6	448.3	717.8	559.4	504.3	44.4	92.7
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°	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7	5769.7
2.5°	5755.2	5745.5	5693.4	5618.0	5546.5	5457.6	5372.6	5321.4	5280.8	5253.8	5285.7
5°	5770.7	5728.1	5569.7	5366.8	5167.8	4943.7	4735.0	4558.2	4488.6	4411.3	4446.1
7.5°	5765.8	5685.6	5400.6	5039.3	4674.1	4296.3	3938.9	3663.5	3520.6	3380.5	3416.2
10°	5741.7	5606.4	5174.6	4639.3	4092.5	3549.5	3042.3	2656.8	2441.4	2246.2	2274.3
12.5°	5688.5	5500.1	4907.9	4181.4	3450.0	2734.1	2140.0	1646.3	1381.6	1264.7	1279.1
15°	5656.7	5396.8	4625.8	3717.6	2764.1	1904.2	1308.1	972.9	852.1	813.5	818.3
17.5°	5641.2	5297.3	4334.0	3187.2	2062.7	1212.5	845.4	745.8	719.8	713.0	714.9
20°	5625.7	5196.8	4033.6	2662.6	1421.2	815.4	694.6	665.7	656.0	647.3	649.2
22.5°	5599.6	5100.2	3710.9	2131.3	958.4	661.8	626.0	598.0	577.7	567.1	569.0
25°	5567.8	4998.7	3381.4	1587.3	699.5	590.3	556.5	516.9	492.7	473.4	474.4
27.5°	5516.6	4874.1	3041.4	1155.5	587.4	528.5	483.1	439.6	399.0	376.8	376.8
30°	5445.1	4733.0	2663.6	827.0	526.5	467.6	412.5	358.4	315.0	294.7	292.7
32.5°	5365.8	4586.2	2282.0	627.0	478.2	410.6	347.8	290.8	252.2	235.7	234.8
35°	5298.2	4427.7	1901.3	525.6	429.9	355.5	286.9	238.6	207.7	194.2	193.2
37.5°	5254.7	4269.3	1530.3	469.5	386.4	304.3	240.6	197.1	174.9	164.2	163.3
40°	5248.0	4151.4	1191.2	427.0	345.9	258.9	201.0	167.1	146.9	135.3	134.3
42.5°	5335.9	4083.8	914.0	391.3	304.3	219.3	171.0	143.0	121.7	110.1	109.2
45°	5566.8	4105.1	703.3	359.4	262.8	185.5	144.9	118.8	99.5	90.8	88.9
47.5°	5988.0	4251.9	559.4	327.5	223.2	157.5	123.7	98.5	82.1	73.4	72.5
50°	6737.7	4596.8	467.6	292.7	186.5	134.3	102.4	80.2	66.7	58.9	58.0
52.5°	7732.8	5211.3	417.4	258.9	154.6	114.0	84.1	63.8	52.2	46.4	45.4
55°	8830.4	5955.2	384.5	222.2	126.6	94.7	66.7	50.2	40.6	35.7	33.8
57.5°	9901.8	6599.6	353.6	186.5	105.3	77.3	53.1	39.6	31.9	27.1	26.1
60°	10886.3	7191.8	317.9	149.7	86.0	60.9	41.5	30.9	25.1	20.3	20.3
62.5°	11940.3	7649.8	268.6	116.9	70.5	46.4	33.8	28.0	20.3	17.4	16.4
65°	13057.2	7989.8	210.6	90.8	55.1	34.8	28.0	29.0	16.4	12.6	11.6
67.5°	13882.2	7922.2	155.5	71.5	42.5	27.1	27.1	30.9	14.5	9.7	8.7
69°	13700.6	7372.5	130.4	61.8	36.7	23.2	25.1	30.9	13.5	8.7	7.7
70°	13174.1	6763.8	115.0	55.1	32.8	21.3	24.2	29.9	12.6	8.7	7.7
72.5°	10971.3	5094.4	89.8	41.5	26.1	17.4	20.3	26.1	12.6	8.7	6.8
75°	8252.6	3260.7	68.6	29.9	19.3	13.5	15.5	19.3	12.6	7.7	6.8
77.5°	4490.5	1175.8	49.3	20.3	13.5	10.6	10.6	14.5	11.6	5.8	3.9
80°	1154.5	295.6	30.9	13.5	10.6	7.7	6.8	9.7	6.8	1.0	0.0
82.5°	285.0	66.7	16.4	9.7	7.7	2.9	2.9	4.8	2.9	0.0	0.0
85°	156.5	32.8	10.6	6.8	3.9	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	80.2	9.7	2.9	1.9	1.0	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)