

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: P323911

Luminaire Tested: **GAN-SA7A-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323911
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-SA7A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 615mA 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: 26752 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

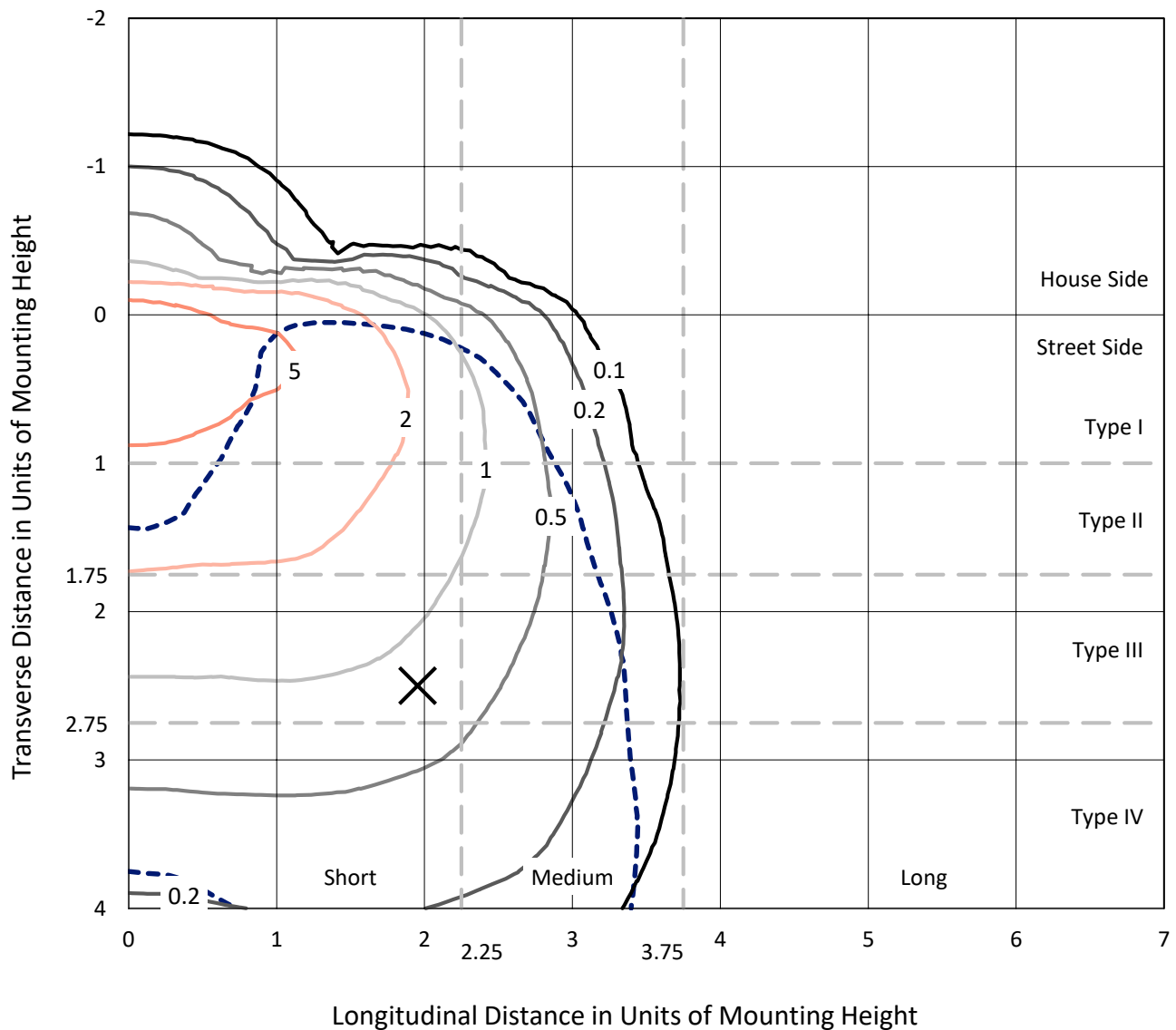
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

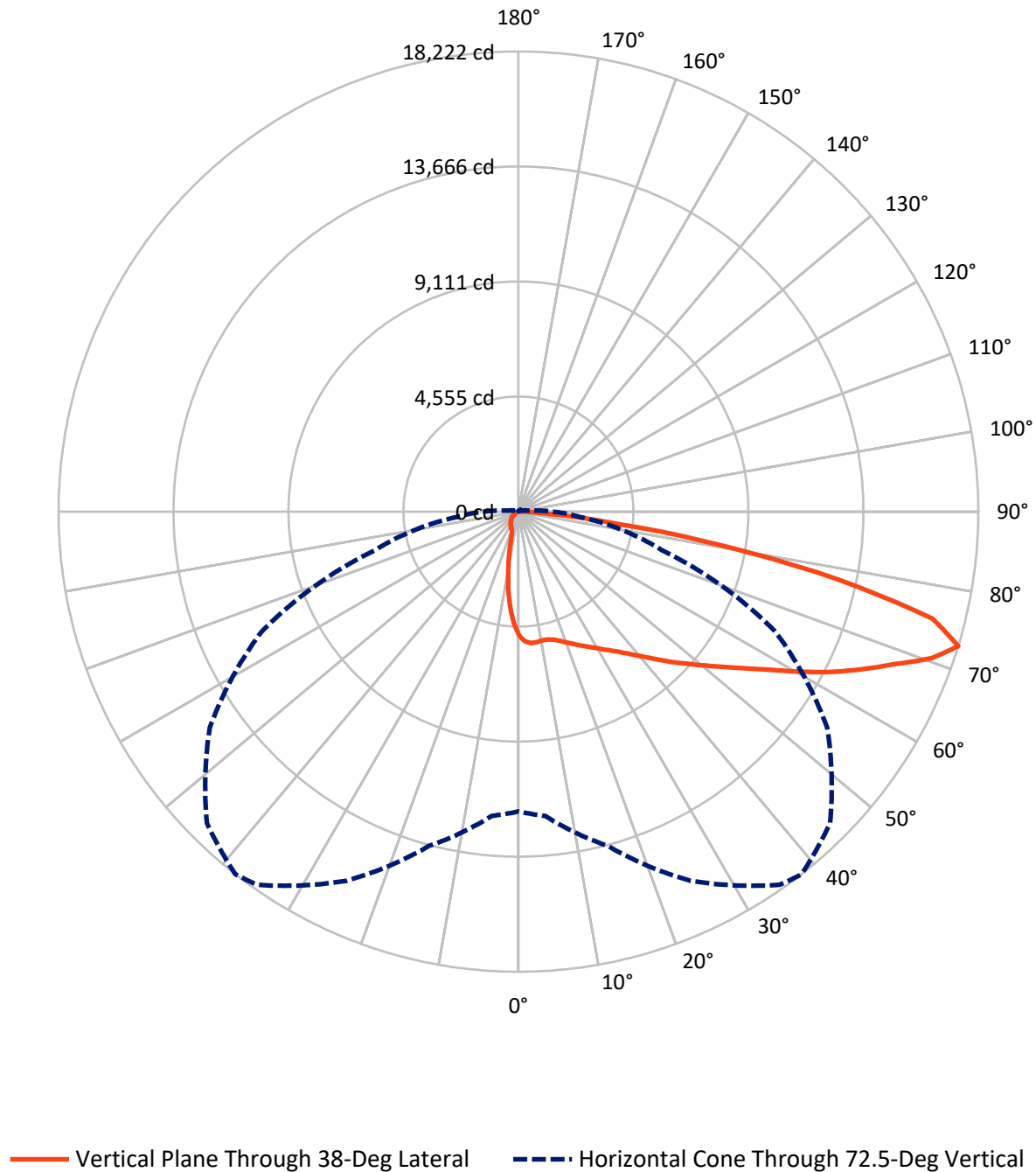
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.3	0.0	2251.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24500.7	0.0	24500.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	26752.0	0.0	26752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.2	1.6
10°-20°	1025.1	3.8
20°-30°	1630.5	6.1
30°-40°	2451.2	9.2
40°-50°	3739.5	14.0
50°-60°	5285.2	19.8
60°-70°	6629.5	24.8
70°-80°	4957.0	18.5
80°-90°	614.7	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°	26752.0	100.0
0°-180°	26752.0	100.0

Coefficient of Utilization



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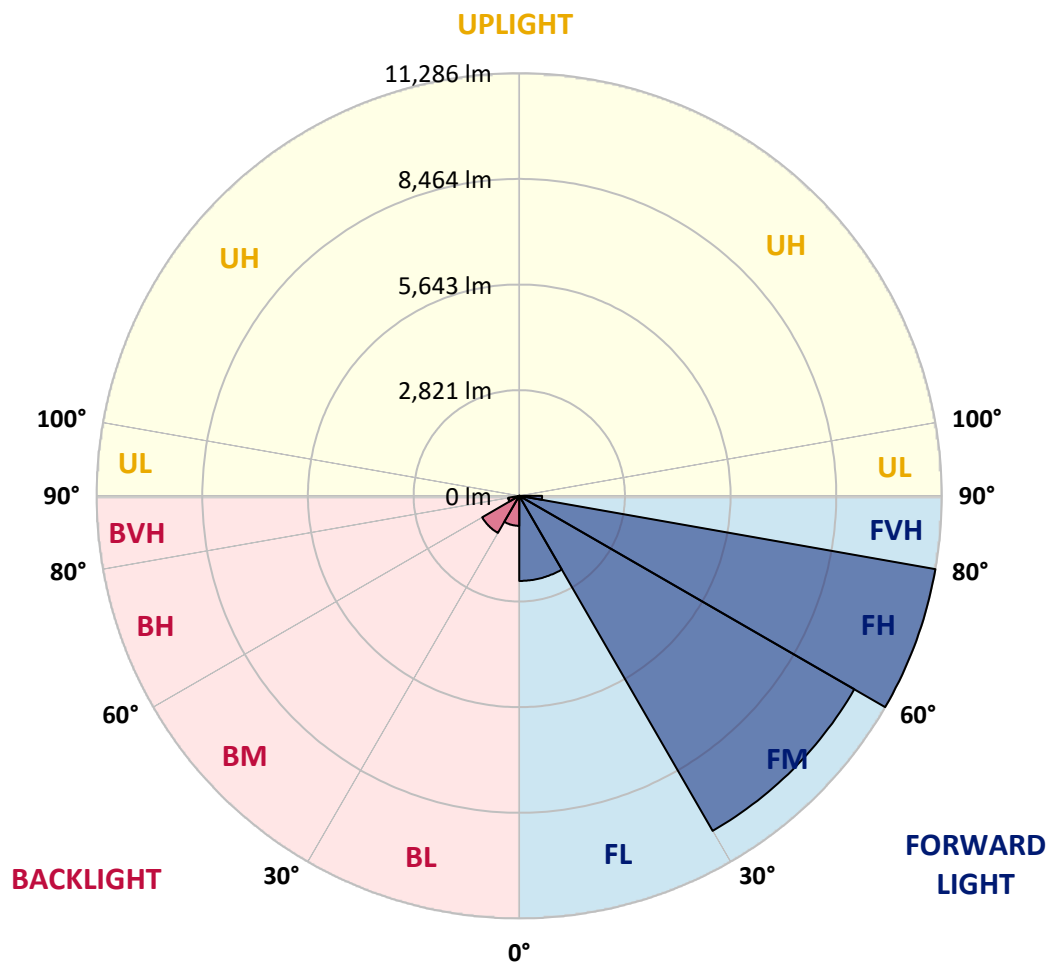
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2273.3	8.5			
FM	(30°-60°)	10332.8	38.6			
FH	(60°-80°)	11285.7	42.2			G4/12000
FVH	(80°-90°)	608.9	2.3			G4/750
BL	(0°-30°)	801.6	3.0	B2/1000		
BM	(30°-60°)	1143.2	4.3	B2/2500		
BH	(60°-80°)	300.7	1.1	B1/500		G1/500
BVH	(80°-90°)	5.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6
2.5°	5221.8	5222.9	5210.7	5190.7	5165.1	5151.8	5129.6	5094.0	5056.3	4988.5	4915.2
5°	5328.5	5328.5	5312.9	5286.2	5245.1	5232.9	5190.7	5134.0	5056.3	4946.3	4822.9
7.5°	5317.4	5319.6	5298.5	5270.7	5229.6	5218.5	5167.4	5104.0	5007.4	4874.1	4716.3
10°	5259.6	5265.1	5248.5	5235.1	5197.4	5185.1	5137.4	5074.0	4977.4	4835.2	4654.1
12.5°	5200.7	5206.2	5211.8	5224.0	5200.7	5196.2	5158.5	5105.1	5012.9	4865.2	4660.7
15°	5162.9	5174.0	5214.0	5261.8	5267.4	5262.9	5238.5	5188.5	5095.1	4941.8	4708.5
17.5°	5162.9	5180.7	5264.0	5355.1	5387.3	5390.7	5369.6	5299.6	5188.5	5024.0	4753.0
20°	5206.2	5230.7	5360.7	5489.6	5542.9	5542.9	5501.8	5404.0	5274.0	5098.5	4782.9
22.5°	5317.4	5349.6	5512.9	5661.8	5718.4	5706.2	5650.7	5508.4	5362.9	5182.9	4820.7
25°	5536.2	5560.7	5730.7	5880.6	5915.1	5887.3	5817.3	5635.1	5476.2	5297.4	4889.6
27.5°	5818.4	5821.8	5997.3	6124.0	6102.8	6084.0	5996.2	5794.0	5639.5	5460.7	5008.5
30°	6128.4	6128.4	6282.8	6379.5	6315.0	6299.5	6211.7	5986.2	5848.4	5682.9	5177.4
32.5°	6428.4	6441.7	6567.2	6628.4	6556.1	6540.6	6455.0	6229.5	6126.2	6021.7	5440.7
35°	6718.3	6728.3	6847.2	6880.6	6811.7	6816.1	6755.0	6563.9	6525.0	6511.7	5837.3
37.5°	6999.4	7001.7	7122.8	7143.9	7109.4	7147.2	7152.8	6983.9	7056.1	7163.9	6396.2
40°	7256.1	7258.3	7378.3	7432.7	7491.6	7540.5	7583.8	7493.8	7732.7	7982.7	7061.7
42.5°	7461.6	7485.0	7637.2	7740.5	7896.0	7989.4	8107.1	8102.7	8538.2	8913.7	7866.0
45°	7642.7	7682.7	7894.9	8076.0	8342.7	8491.5	8676.0	8820.4	9444.8	9950.3	8680.4
47.5°	7881.6	7919.4	8161.6	8458.2	8813.7	9009.3	9314.8	9627.0	10441.4	10968.0	9475.9
50°	8218.2	8201.6	8440.4	8866.0	9322.6	9579.2	10014.8	10482.5	11430.2	11854.6	9943.6
52.5°	8577.1	8570.4	8747.1	9309.3	9922.5	10222.5	10798.0	11366.9	12375.7	12465.7	10158.1
55°	9021.5	8973.7	9122.6	9814.8	10634.7	10956.9	11634.6	12242.3	13128.9	12810.1	10265.8
57.5°	9487.0	9408.1	9550.3	10378.1	11438.0	11819.1	12561.2	13095.6	13630.0	13045.6	10264.7
60°	9968.1	9874.8	10043.6	11082.4	12435.7	12876.7	13565.6	13672.2	14097.8	13164.5	10189.2
62.5°	10370.3	10314.7	10565.8	11835.7	13550.0	13983.3	14324.4	14196.6	14492.2	13256.7	10012.5
65°	10795.8	10799.1	11204.7	12714.5	14734.4	15026.6	15055.5	14876.6	14822.1	13237.8	9414.8
67.5°	11371.3	11424.6	12101.2	13907.8	15886.5	16112.0	16109.8	15613.2	15063.2	12486.8	8089.3
70°	11980.1	12105.7	13134.5	15273.2	17144.2	17373.0	17255.3	16082.0	14183.3	10097.0	5725.1
72.5°	11877.9	12095.7	13708.9	16134.3	18047.4	18221.9	17456.4	14929.9	11210.2	5868.4	2437.6
75°	9163.7	9415.9	12570.1	15281.0	17099.7	16943.1	14998.8	11618.0	6126.2	1637.6	548.8
77.5°	4840.7	4975.2	8303.8	11641.3	13333.4	13005.6	10565.8	6445.0	1867.6	405.5	246.6
80°	2535.4	2566.5	3618.6	6605.0	8229.3	8231.6	6261.7	2830.9	769.9	207.8	165.5
82.5°	1357.7	1384.3	1912.1	3052.0	4311.9	3908.6	2397.6	1557.7	447.7	117.8	158.9
85°	326.6	332.2	1084.4	1394.3	1695.4	1211.0	712.2	1307.7	121.1	68.9	128.9
87.5°	125.5	127.8	402.2	603.3	432.2	280.0	333.3	487.7	15.6	26.7	20.0
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°	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6
2.5°	4870.7	4841.8	4770.7	4680.7	4600.7	4543.0	4456.3	4399.6	4361.9	4360.8	4346.3
5°	4747.4	4688.5	4535.2	4353.0	4187.4	4038.6	3863.0	3724.1	3620.8	3604.2	3568.6
7.5°	4615.2	4518.5	4283.0	3998.6	3720.8	3438.6	3110.9	2907.5	2733.1	2649.8	2640.9
10°	4534.1	4398.5	4064.1	3653.0	3217.5	2758.7	2329.8	2033.2	1818.7	1757.6	1712.1
12.5°	4517.4	4338.5	3895.2	3328.6	2706.4	2099.8	1625.4	1309.9	1138.8	1084.4	1069.9
15°	4534.1	4310.8	3753.0	3007.5	2188.7	1489.9	1091.0	907.7	843.3	827.7	826.6
17.5°	4544.1	4277.4	3591.9	2650.9	1686.5	1064.4	835.5	782.2	772.2	771.0	773.3
20°	4543.0	4226.3	3399.7	2253.2	1254.3	836.6	755.5	744.4	742.2	743.3	742.2
22.5°	4535.2	4166.3	3188.6	1843.2	947.7	747.7	721.1	714.4	713.3	713.3	713.3
25°	4549.6	4118.6	2956.4	1451.0	781.0	706.6	689.9	684.4	683.3	683.3	681.1
27.5°	4601.9	4091.9	2702.0	1116.6	705.5	669.9	656.6	655.5	652.2	651.1	653.3
30°	4686.3	4091.9	2423.1	868.8	659.9	632.2	622.2	620.0	618.8	617.7	618.8
32.5°	4835.2	4123.0	2118.7	722.2	616.6	590.0	583.3	586.6	583.3	583.3	583.3
35°	5104.0	4216.3	1799.9	629.9	571.1	548.8	542.2	546.6	544.4	544.4	543.3
37.5°	5496.2	4389.6	1478.8	574.4	531.1	507.7	498.8	505.5	503.3	503.3	502.2
40°	5974.0	4641.8	1173.2	532.2	492.2	467.7	460.0	463.3	457.7	457.7	460.0
42.5°	6563.9	4961.8	906.6	491.1	453.3	430.0	425.5	422.2	412.2	406.6	407.7
45°	7219.4	5295.1	706.6	451.1	416.6	397.7	391.1	382.2	365.5	354.4	355.5
47.5°	7804.9	5551.8	574.4	412.2	383.3	368.9	358.9	342.2	317.8	304.4	305.5
50°	8112.7	5590.7	488.8	373.3	352.2	337.8	323.3	297.8	268.9	254.4	253.3
52.5°	8191.6	5408.5	425.5	337.8	321.1	304.4	285.5	251.1	218.9	203.3	201.1
55°	8220.5	5130.7	368.9	304.4	287.8	268.9	244.4	205.5	175.5	160.0	158.9
57.5°	8124.9	4716.3	324.4	274.4	254.4	231.1	201.1	164.4	135.5	123.3	123.3
60°	7912.7	4155.2	290.0	242.2	220.0	193.3	162.2	127.8	101.1	91.1	91.1
62.5°	7489.4	3428.6	257.8	208.9	187.8	160.0	131.1	96.7	71.1	65.6	66.7
65°	6690.6	2600.9	225.5	178.9	160.0	132.2	102.2	68.9	47.8	47.8	50.0
67.5°	5456.2	1806.5	192.2	152.2	137.8	107.8	77.8	47.8	33.3	37.8	42.2
70°	3611.9	1013.3	164.4	125.5	117.8	85.5	57.8	32.2	26.7	35.6	43.3
72.5°	1363.2	394.4	137.8	101.1	102.2	65.6	41.1	24.4	24.4	38.9	51.1
75°	380.0	193.3	98.9	74.4	80.0	47.8	30.0	21.1	23.3	44.4	60.0
77.5°	223.3	142.2	64.4	43.3	54.4	33.3	20.0	16.7	20.0	37.8	57.8
80°	180.0	75.5	37.8	22.2	30.0	18.9	13.3	10.0	5.6	14.4	30.0
82.5°	180.0	45.6	17.8	15.6	15.6	10.0	6.7	4.4	1.1	0.0	7.8
85°	121.1	18.9	11.1	10.0	7.8	3.3	2.2	1.1	0.0	0.0	0.0
87.5°	20.0	7.8	4.4	2.2	1.1	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)