

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: P321514

Luminaire Tested: **GAN-SA0A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29669 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

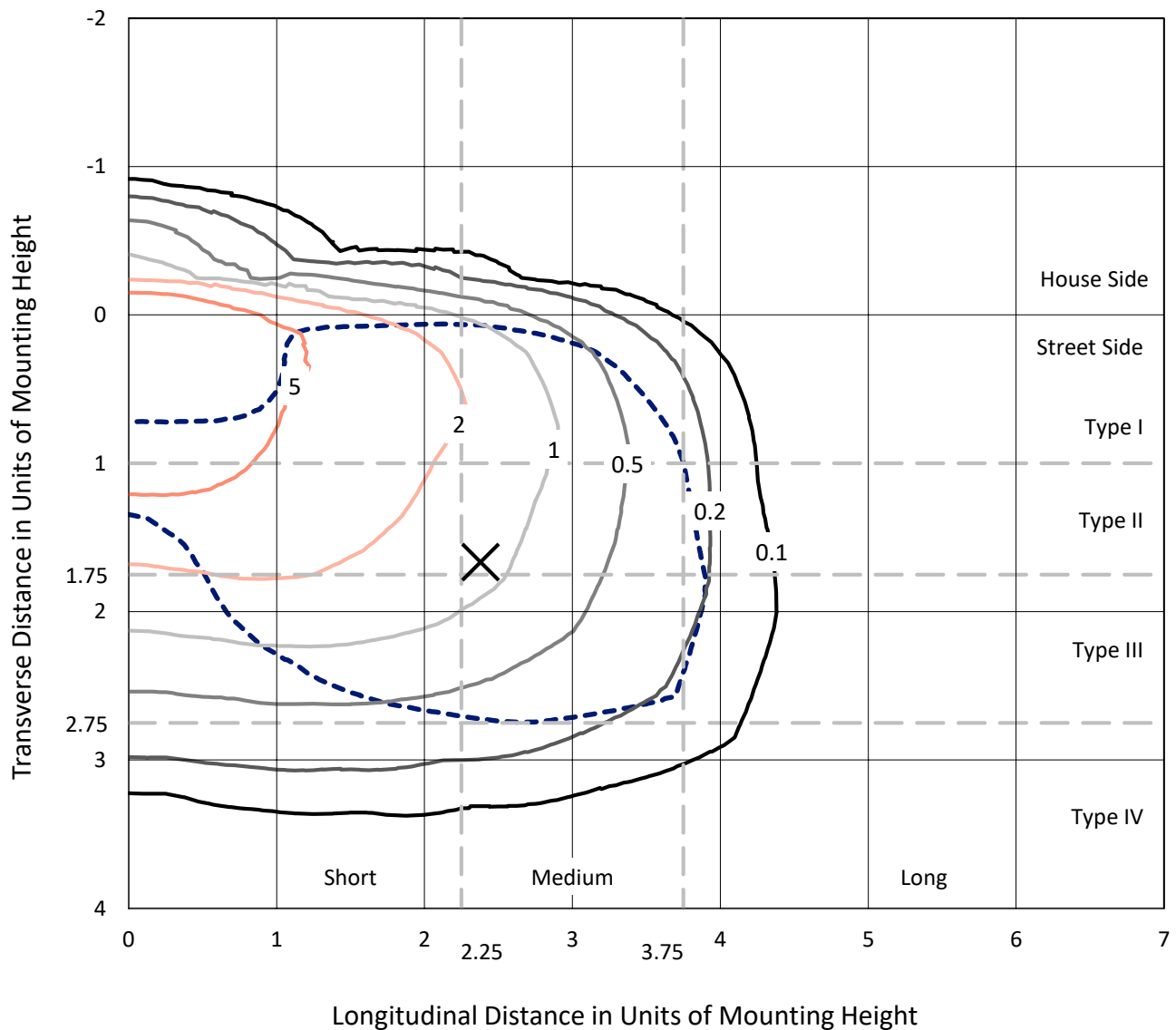
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321514
CATALOG NUMBER: GAN-SA0A-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

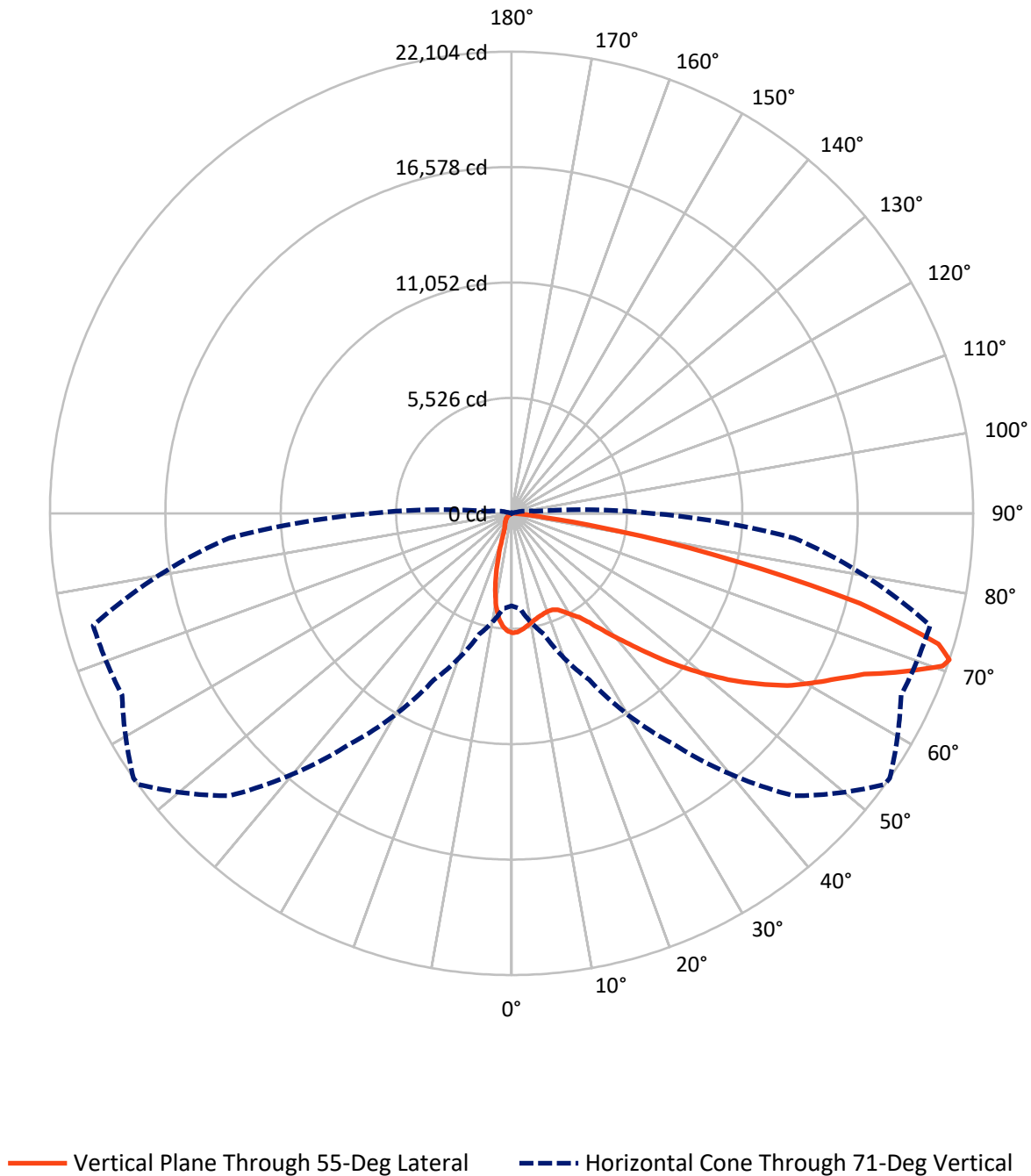
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type III - Medium - N/A

REPORT NUMBER: P321514
CATALOG NUMBER: GAN-SA0A-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321514

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.0	0.0	2349.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	27320.0	0.0	27320.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	29669.0	0.0	29669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.9	1.6
10°-20°	1101.4	3.7
20°-30°	1769.9	6.0
30°-40°	3007.2	10.1
40°-50°	4667.6	15.7
50°-60°	6275.5	21.2
60°-70°	7677.0	25.9
70°-80°	4488.5	15.1
80°-90°	194.0	0.7
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°	29669.0	100.0
0°-180°	29669.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321514

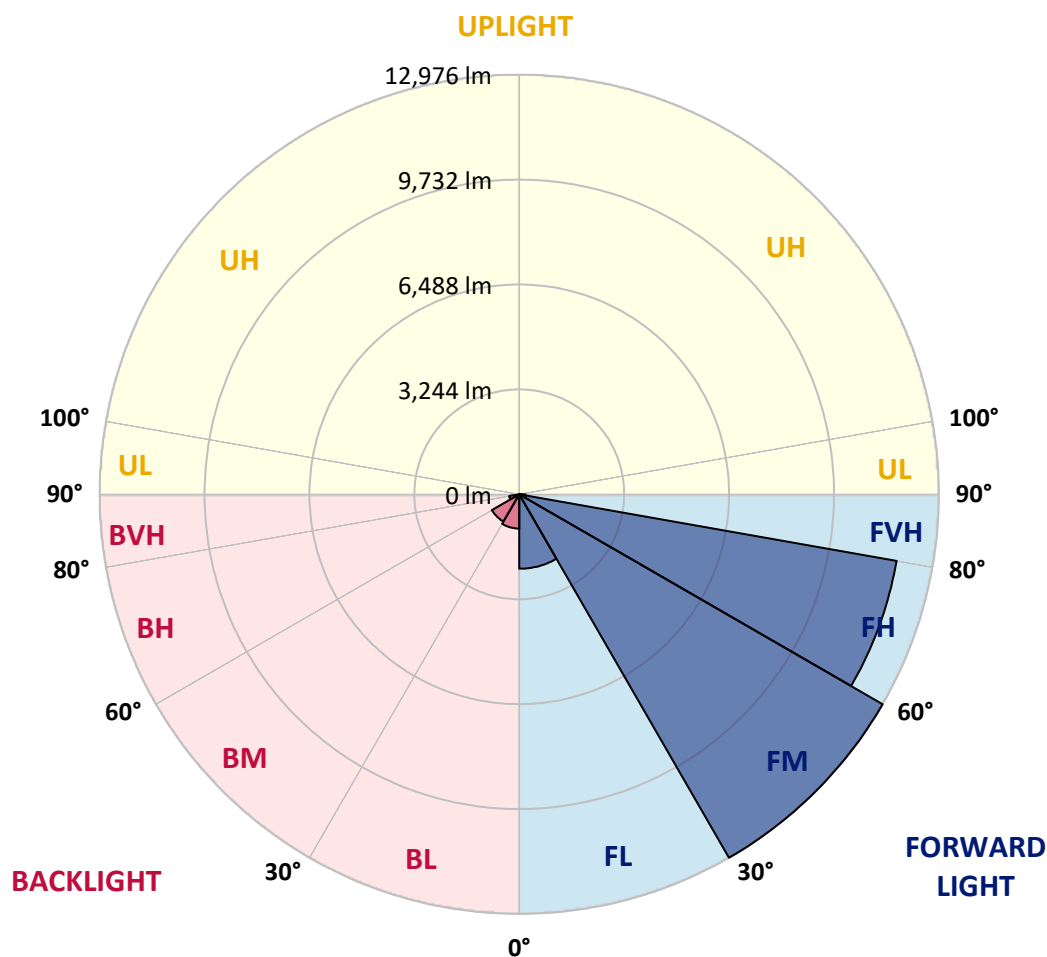
CATALOG NUMBER: GAN-SA0A-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2301.9	7.8			
FM	(30°-60°)	12976.4	43.7			
FH	(60°-80°)	11850.8	39.9			G4/12000
FVH	(80°-90°)	191.0	0.6			G2/225
BL	(0°-30°)	1057.3	3.6	B3/2500		
BM	(30°-60°)	973.9	3.3	B1/1000		
BH	(60°-80°)	314.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
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





REPORT NUMBER: P321514

CATALOG NUMBER: GAN-SA0A-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8
2.5°	5553.9	5560.6	5584.6	5595.2	5620.5	5663.2	5684.5	5685.8	5720.4	5733.8	5744.4
5°	5160.9	5200.9	5240.9	5283.5	5360.7	5463.3	5564.6	5573.9	5685.8	5768.4	5812.4
7.5°	4822.5	4858.5	4906.5	4974.4	5083.7	5244.8	5414.0	5434.0	5645.8	5833.7	5932.3
10°	4474.8	4504.1	4573.4	4673.3	4823.9	5039.7	5267.5	5300.8	5609.9	5921.6	6094.8
12.5°	4103.2	4120.5	4204.4	4348.3	4569.4	4843.9	5143.6	5187.6	5587.2	6022.8	6286.6
15°	3820.7	3828.7	3908.7	4057.9	4311.0	4668.0	5047.7	5101.0	5592.6	6144.1	6495.8
17.5°	3748.8	3752.8	3795.4	3898.0	4121.8	4510.8	4971.7	5037.0	5608.5	6262.6	6706.3
20°	4040.5	4012.6	3968.6	3952.6	4048.5	4416.2	4926.5	4999.7	5629.9	6367.9	6895.4
22.5°	4841.2	4758.6	4576.1	4332.3	4184.4	4422.9	4938.4	5011.7	5697.8	6497.1	7113.9
25°	6029.5	5914.9	5604.5	5125.0	4664.0	4614.7	5038.4	5113.0	5829.7	6651.6	7323.1
27.5°	7381.7	7268.5	6888.8	6204.0	5418.0	4994.4	5267.5	5336.8	6025.5	6788.9	7482.9
30°	8676.6	8644.6	8197.0	7419.0	6366.6	5609.9	5563.2	5621.9	6170.7	6871.5	7609.5
32.5°	9774.3	9723.7	9364.0	8607.3	7452.3	6349.2	5910.9	5928.3	6280.0	6978.0	7774.7
35°	10792.1	10729.5	10413.8	9698.4	8566.0	7252.5	6446.5	6421.2	6518.4	7192.5	8014.5
37.5°	11680.7	11738.0	11387.6	10706.8	9565.2	8191.7	7168.5	7092.6	6891.4	7541.6	8362.2
40°	12424.0	12424.0	12241.5	11674.0	10644.2	9162.8	7985.2	7885.3	7452.3	8079.8	8803.1
42.5°	12691.8	12749.1	12817.0	12496.0	11610.1	10172.6	8895.1	8791.1	8242.3	8843.1	9360.0
45°	12707.8	12798.4	13146.1	13144.8	12482.7	11175.8	9920.8	9871.6	9254.8	9823.6	10050.1
47.5°	12482.7	12595.9	13168.7	13493.8	13174.1	12109.6	11042.6	10981.3	10444.4	11025.2	10772.1
50°	12135.0	12260.2	12926.3	13631.0	13644.3	12922.3	12224.2	12132.3	11753.9	12398.7	11518.1
52.5°	11512.8	11755.3	12709.1	13663.0	13953.4	13624.3	13348.6	13308.6	13219.4	13721.6	12112.3
55°	10182.0	10451.1	12164.3	13673.6	14239.8	14246.5	14402.3	14413.0	14592.9	14957.9	12554.6
57.5°	9553.2	9705.0	11213.1	13724.3	14664.8	14952.5	15476.1	15558.7	15837.1	16131.5	13059.5
60°	9157.5	9337.3	10744.1	13655.0	15332.2	15878.4	16471.2	16499.2	16797.6	17342.5	13742.9
62.5°	8841.8	9019.0	10448.4	13388.5	16082.2	16992.1	17443.7	17446.4	17670.2	18785.3	14519.6
65°	8062.4	8211.6	9850.2	13088.8	16577.8	18093.9	18573.4	18556.1	18738.6	20306.6	15421.5
67.5°	6935.4	7050.0	8628.6	11952.4	16391.3	19095.7	20278.7	20221.4	20000.2	21621.5	15775.8
70°	5362.1	5403.4	6800.9	9960.8	14643.5	19480.7	21926.6	21897.3	20774.2	21385.7	14477.0
71°	4432.2	4568.1	5993.5	8791.1	13472.5	19125.0	22086.4	22103.8	20579.7	20743.6	13583.0
72.5°	2573.8	2689.7	4344.3	6751.6	11438.2	17640.9	21257.8	21383.0	19671.2	18867.9	11602.1
75°	551.5	590.2	1610.6	3267.9	6292.0	12364.1	16779.0	17225.3	16033.0	12835.7	6992.7
77.5°	383.7	414.3	690.1	1482.7	2079.6	6109.4	10423.1	10926.7	9578.5	4823.9	2238.1
80°	303.7	338.4	538.2	732.7	562.2	1970.3	4882.5	5190.2	3194.6	1076.4	377.0
82.5°	169.2	201.2	419.6	395.7	215.8	374.3	1366.8	1545.3	639.5	217.1	89.3
85°	49.3	59.9	270.4	287.8	91.9	71.9	233.1	289.1	121.2	57.3	40.0
87.5°	0.0	0.0	130.6	110.6	26.6	10.7	21.3	24.0	24.0	24.0	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P321514

CATALOG NUMBER: GAN-SA0A-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8	5721.8
2.5°	5744.4	5753.7	5720.4	5676.5	5629.9	5572.6	5512.6	5466.0	5464.7	5442.0	5419.4
5°	5815.0	5809.7	5717.8	5577.9	5412.7	5240.9	5077.0	4891.8	4830.5	4754.6	4729.3
7.5°	5945.6	5908.3	5713.8	5407.4	5045.0	4685.3	4313.6	3939.3	3779.4	3635.6	3610.2
10°	6109.4	6038.8	5688.5	5151.6	4486.8	3823.4	3262.5	2753.6	2529.8	2358.0	2350.0
12.5°	6280.0	6172.1	5617.9	4765.3	3755.5	2822.9	2176.8	1675.9	1489.4	1369.5	1380.2
15°	6458.5	6297.3	5466.0	4244.4	2922.8	1915.7	1337.5	1043.1	968.5	937.9	945.9
17.5°	6641.0	6383.9	5254.2	3616.9	2100.9	1236.3	925.9	843.3	843.3	849.9	852.6
20°	6799.5	6430.5	4942.4	2913.5	1424.1	900.6	810.0	798.0	804.6	815.3	816.6
22.5°	6956.7	6433.2	4536.1	2200.8	996.5	788.7	771.3	766.0	770.0	782.0	783.3
25°	7084.6	6401.2	4027.2	1565.3	795.3	743.4	735.4	732.7	735.4	750.0	750.0
27.5°	7136.6	6285.3	3406.4	1100.4	712.7	692.7	690.1	692.7	696.7	707.4	708.7
30°	7141.9	6082.8	2729.7	796.7	646.1	624.8	630.1	639.5	635.5	632.8	635.5
32.5°	7155.2	5848.3	2070.2	655.4	590.2	556.9	550.2	550.2	534.2	524.9	519.6
35°	7199.2	5572.6	1501.4	588.8	532.9	494.2	468.9	439.6	409.0	393.0	389.0
37.5°	7268.5	5283.5	1075.1	544.9	482.3	438.3	390.3	338.4	294.4	282.4	282.4
40°	7395.0	4985.1	795.3	510.2	442.3	387.7	315.7	247.8	207.8	201.2	201.2
42.5°	7594.8	4670.7	634.1	479.6	407.7	335.7	241.1	179.8	150.5	146.5	145.2
45°	7802.7	4324.3	554.2	450.3	370.3	275.8	178.5	133.2	115.9	111.9	111.9
47.5°	8010.5	3955.3	515.6	422.3	334.4	214.5	133.2	105.2	97.3	97.3	98.6
50°	8186.3	3570.3	487.6	391.7	287.8	162.5	105.2	89.3	86.6	91.9	93.3
52.5°	8230.3	3191.9	452.9	353.0	230.5	123.9	86.6	78.6	78.6	78.6	78.6
55°	8203.7	2898.9	407.7	305.1	170.5	98.6	74.6	69.3	67.9	67.9	67.9
57.5°	8294.2	2725.7	326.4	237.1	122.6	79.9	65.3	61.3	58.6	57.3	57.3
60°	8476.8	2612.4	233.1	170.5	91.9	66.6	56.0	52.0	48.0	45.3	45.3
62.5°	8719.2	2513.9	173.2	126.6	70.6	53.3	46.6	42.6	37.3	34.6	34.6
65°	8905.7	2338.0	131.9	94.6	53.3	42.6	36.0	34.6	26.6	24.0	22.6
67.5°	8620.6	1951.7	106.6	69.3	40.0	33.3	28.0	26.6	16.0	13.3	13.3
70°	7393.7	1358.8	85.3	50.6	29.3	26.6	22.6	17.3	12.0	10.7	10.7
71°	6704.9	1135.0	77.3	42.6	25.3	25.3	21.3	14.7	10.7	9.3	9.3
72.5°	5569.9	806.0	65.3	33.3	22.6	26.6	22.6	13.3	10.7	9.3	8.0
75°	3233.2	337.0	45.3	22.6	17.3	32.0	29.3	12.0	8.0	6.7	6.7
77.5°	972.5	123.9	25.3	14.7	13.3	28.0	33.3	10.7	4.0	1.3	1.3
80°	177.2	53.3	16.0	9.3	9.3	17.3	25.3	5.3	0.0	0.0	0.0
82.5°	62.6	26.6	9.3	5.3	4.0	8.0	12.0	0.0	0.0	0.0	0.0
85°	36.0	18.7	5.3	2.7	0.0	1.3	2.7	0.0	0.0	0.0	0.0
87.5°	24.0	5.3	0.0	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)