

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: P323928

Luminaire Tested: **GAN-SA4C-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323928
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-SA4C-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 23157 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

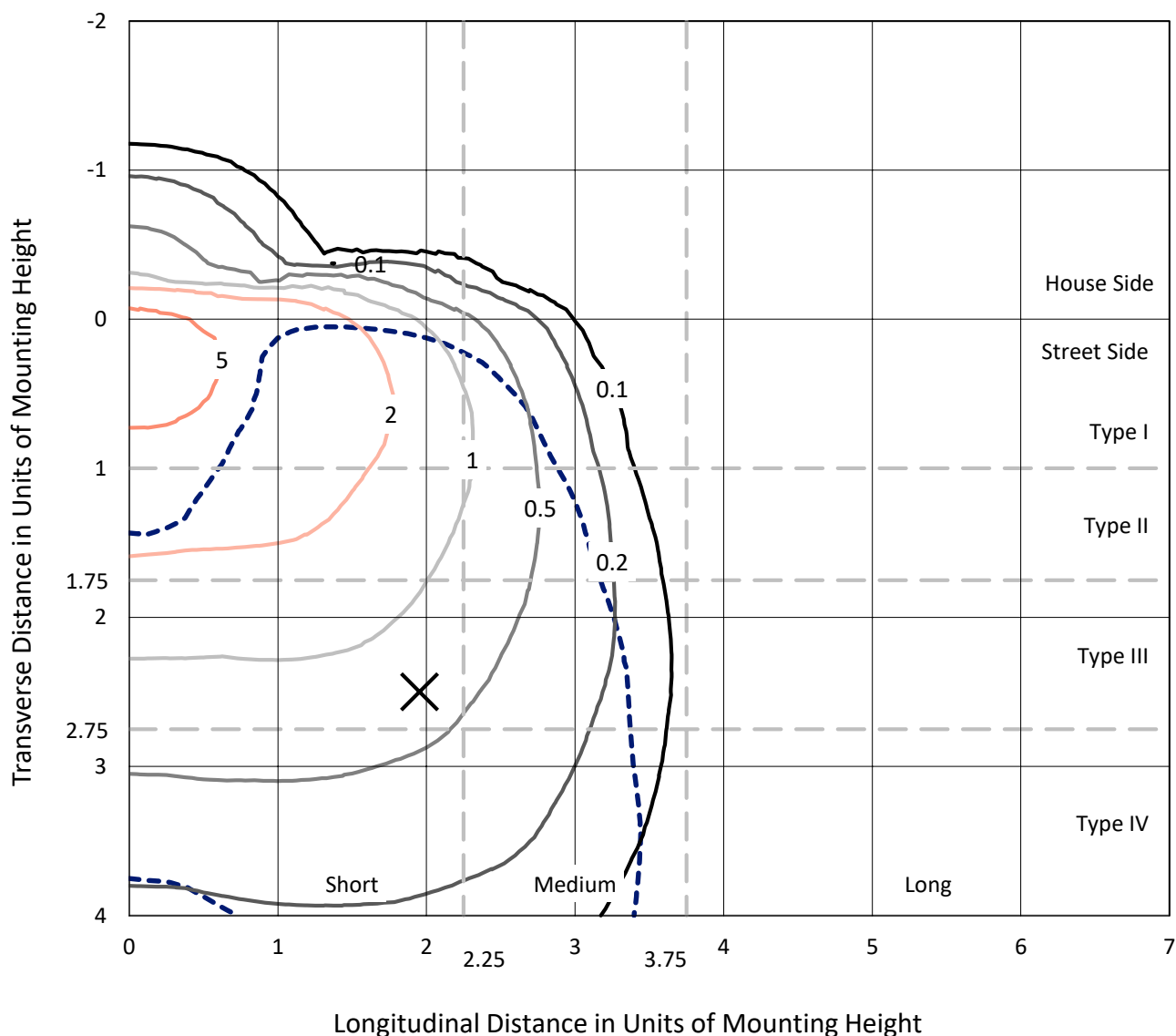
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

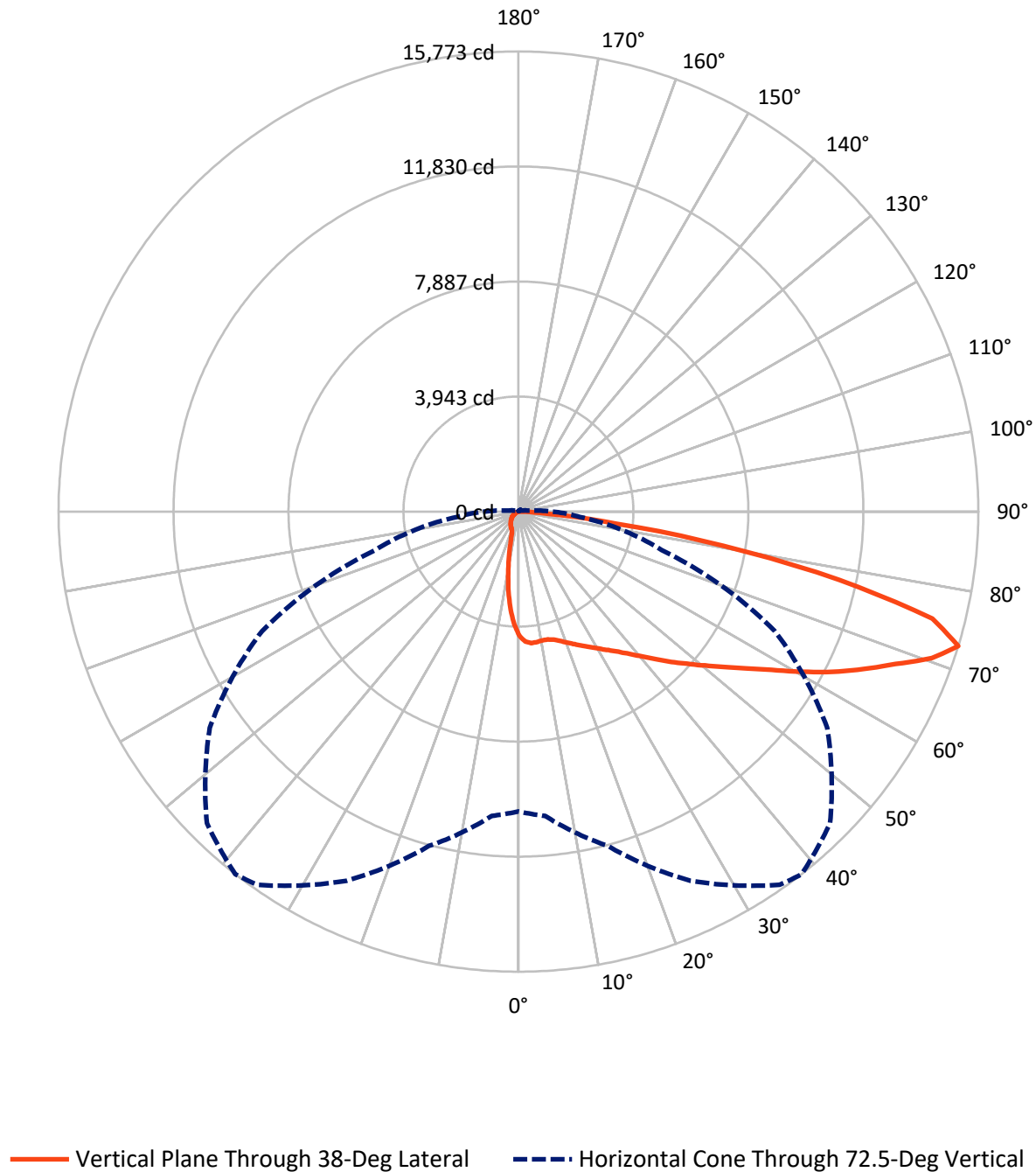
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1948.8	0.0	1948.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21208.3	0.0	21208.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	23157.0	0.0	23157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.9	1.6
10°-20°	887.4	3.8
20°-30°	1411.4	6.1
30°-40°	2121.8	9.2
40°-50°	3237.0	14.0
50°-60°	4575.0	19.8
60°-70°	5738.6	24.8
70°-80°	4290.9	18.5
80°-90°	532.0	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°	23157.0	100.0
0°-180°	23157.0	100.0

Coefficient of Utilization



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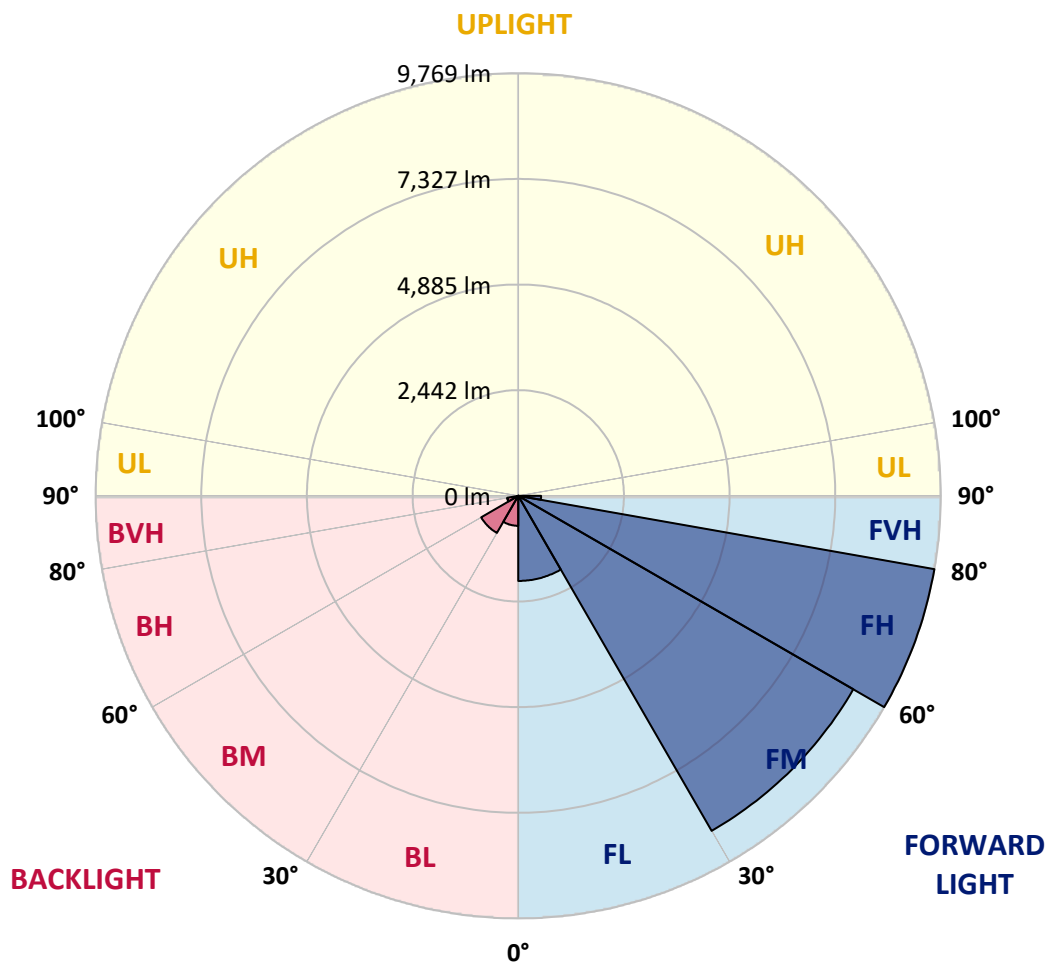
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1967.8	8.5			
FM	(30°-60°)	8944.3	38.6			
FH	(60°-80°)	9769.1	42.2			G4/12000
FVH	(80°-90°)	527.1	2.3			G4/750
BL	(0°-30°)	693.9	3.0	B2/1000		
BM	(30°-60°)	989.6	4.3	B1/1000		
BH	(60°-80°)	260.3	1.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5
2.5°	4520.1	4521.0	4510.5	4493.2	4471.0	4459.5	4440.3	4409.5	4376.8	4318.1	4254.6
5°	4612.4	4612.4	4598.9	4575.9	4540.3	4529.7	4493.2	4444.1	4376.8	4281.6	4174.8
7.5°	4602.8	4604.7	4586.4	4562.4	4526.8	4517.2	4473.0	4418.1	4334.5	4219.1	4082.5
10°	4552.8	4557.6	4543.2	4531.6	4498.9	4488.3	4447.0	4392.2	4308.5	4185.4	4028.6
12.5°	4501.8	4506.6	4511.4	4522.0	4501.8	4498.0	4465.3	4419.1	4339.3	4211.4	4034.4
15°	4469.1	4478.7	4513.4	4554.7	4559.5	4555.7	4534.5	4491.2	4410.4	4277.7	4075.8
17.5°	4469.1	4484.5	4556.6	4635.5	4663.4	4666.3	4648.0	4587.4	4491.2	4348.9	4114.2
20°	4506.6	4527.8	4640.3	4751.9	4798.0	4798.0	4762.4	4677.8	4565.3	4413.3	4140.2
22.5°	4602.8	4630.7	4772.1	4900.9	4950.0	4939.4	4891.3	4768.2	4642.2	4486.4	4172.9
25°	4792.3	4813.4	4960.6	5090.4	5120.2	5096.2	5035.6	4877.8	4740.3	4585.5	4232.5
27.5°	5036.5	5039.4	5191.4	5301.0	5282.7	5266.4	5190.4	5015.4	4881.7	4726.9	4335.4
30°	5304.8	5304.8	5438.5	5522.2	5466.4	5453.0	5377.0	5181.7	5062.5	4919.2	4481.6
32.5°	5564.5	5576.1	5684.7	5737.6	5675.1	5661.6	5587.6	5392.4	5302.9	5212.5	4709.5
35°	5815.5	5824.2	5927.1	5955.9	5896.3	5900.2	5847.3	5681.8	5648.2	5636.6	5052.9
37.5°	6058.8	6060.8	6165.6	6183.9	6154.0	6186.7	6191.6	6045.4	6107.9	6201.2	5536.6
40°	6281.0	6282.9	6386.8	6433.9	6484.9	6527.2	6564.7	6486.8	6693.6	6910.0	6112.7
42.5°	6458.9	6479.1	6610.9	6700.3	6834.9	6915.7	7017.7	7013.8	7390.8	7715.9	6809.0
45°	6615.7	6650.3	6834.0	6990.7	7221.6	7350.4	7510.1	7635.1	8175.6	8613.2	7513.9
47.5°	6822.4	6855.1	7064.8	7321.6	7629.3	7798.6	8063.1	8333.3	9038.2	9494.1	8202.5
50°	7113.8	7099.4	7306.2	7674.5	8069.8	8291.9	8668.9	9073.8	9894.2	10261.6	8607.4
52.5°	7424.5	7418.7	7571.6	8058.3	8589.1	8848.8	9347.0	9839.4	10712.6	10790.5	8793.0
55°	7809.2	7767.8	7896.7	8495.8	9205.6	9484.5	10071.1	10597.2	11364.6	11088.6	8886.3
57.5°	8212.1	8143.8	8266.9	8983.4	9900.9	10230.8	10873.2	11335.8	11798.4	11292.5	8885.3
60°	8628.6	8547.8	8693.9	9593.2	10764.5	11146.3	11742.6	11834.9	12203.3	11395.4	8819.9
62.5°	8976.7	8928.6	9146.0	10245.2	11729.1	12104.2	12399.5	12288.9	12544.7	11475.2	8667.0
65°	9345.0	9347.9	9698.9	11005.9	12754.3	13007.3	13032.3	12877.4	12830.3	11458.9	8149.6
67.5°	9843.2	9889.4	10475.1	12038.8	13751.6	13946.9	13944.9	13515.1	13039.0	10808.8	7002.3
70°	10370.2	10478.9	11369.5	13220.8	14840.3	15038.4	14936.5	13920.9	12277.3	8740.1	4955.7
72.5°	10281.7	10470.2	11866.7	13966.1	15622.2	15773.2	15110.5	12923.6	9703.8	5079.8	2110.0
75°	7932.3	8150.6	10880.9	13227.5	14801.8	14666.2	12983.2	10056.7	5302.9	1417.6	475.1
77.5°	4190.2	4306.6	7187.9	10076.9	11541.6	11257.9	9146.0	5578.9	1616.7	351.0	213.5
80°	2194.6	2221.6	3132.3	5717.4	7123.5	7125.4	5420.3	2450.5	666.5	179.8	143.3
82.5°	1175.2	1198.3	1655.1	2641.8	3732.4	3383.3	2075.4	1348.3	387.6	101.9	137.5
85°	282.7	287.6	938.6	1207.0	1467.6	1048.3	616.5	1131.9	104.8	59.6	111.6
87.5°	108.7	110.6	348.1	522.2	374.1	242.4	288.5	422.2	13.5	23.1	17.3
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°	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5	4258.5
2.5°	4216.2	4191.2	4129.6	4051.7	3982.5	3932.5	3857.5	3808.4	3775.7	3774.8	3762.2
5°	4109.4	4058.5	3925.7	3768.0	3624.7	3495.9	3343.9	3223.7	3134.2	3119.8	3089.0
7.5°	3995.0	3911.3	3707.4	3461.2	3220.8	2976.5	2692.8	2516.8	2365.8	2293.7	2286.0
10°	3924.8	3807.4	3518.0	3162.1	2785.1	2388.0	2016.7	1759.9	1574.3	1521.4	1482.0
12.5°	3910.4	3755.5	3371.8	2881.3	2342.7	1817.7	1407.0	1133.9	985.8	938.6	926.1
15°	3924.8	3731.5	3248.7	2603.4	1894.6	1289.7	944.4	785.7	729.9	716.5	715.5
17.5°	3933.4	3702.6	3109.2	2294.7	1459.9	921.3	723.2	677.1	668.4	667.4	669.4
20°	3932.5	3658.4	2942.9	1950.4	1085.8	724.2	654.0	644.4	642.4	643.4	642.4
22.5°	3925.7	3606.4	2760.1	1595.5	820.3	647.2	624.2	618.4	617.4	617.4	617.4
25°	3938.2	3565.1	2559.1	1256.0	676.1	611.7	597.2	592.4	591.5	591.5	589.5
27.5°	3983.4	3542.0	2338.9	966.5	610.7	579.9	568.4	567.4	564.5	563.6	565.5
30°	4056.5	3542.0	2097.5	752.1	571.3	547.2	538.6	536.6	535.7	534.7	535.7
32.5°	4185.4	3568.9	1834.0	625.1	533.8	510.7	504.9	507.8	504.9	504.9	504.9
35°	4418.1	3649.7	1558.0	545.3	494.3	475.1	469.3	473.2	471.2	471.2	470.3
37.5°	4757.6	3799.8	1280.0	497.2	459.7	439.5	431.8	437.6	435.7	435.7	434.7
40°	5171.2	4018.1	1015.6	460.7	426.0	404.9	398.2	401.0	396.2	396.2	398.2
42.5°	5681.8	4295.0	784.8	425.1	392.4	372.2	368.3	365.5	356.8	352.0	353.0
45°	6249.3	4583.6	611.7	390.5	360.6	344.3	338.5	330.8	316.4	306.8	307.8
47.5°	6756.1	4805.7	497.2	356.8	331.8	319.3	310.6	296.2	275.1	263.5	264.5
50°	7022.5	4839.4	423.2	323.1	304.9	292.4	279.9	257.7	232.7	220.2	219.3
52.5°	7090.8	4681.7	368.3	292.4	277.9	263.5	247.2	217.3	189.5	176.0	174.1
55°	7115.8	4441.2	319.3	263.5	249.1	232.7	211.6	177.9	152.0	138.5	137.5
57.5°	7033.1	4082.5	280.8	237.5	220.2	200.0	174.1	142.3	117.3	106.8	106.8
60°	6849.4	3596.8	251.0	209.7	190.4	167.3	140.4	110.6	87.5	78.9	78.9
62.5°	6483.0	2967.9	223.1	180.8	162.5	138.5	113.5	83.7	61.6	56.7	57.7
65°	5791.5	2251.4	195.2	154.8	138.5	114.4	88.5	59.6	41.4	41.4	43.3
67.5°	4723.0	1563.8	166.4	131.8	119.3	93.3	67.3	41.4	28.9	32.7	36.5
70°	3126.6	877.1	142.3	108.7	101.9	74.1	50.0	27.9	23.1	30.8	37.5
72.5°	1180.0	341.4	119.3	87.5	88.5	56.7	35.6	21.2	21.2	33.7	44.2
75°	328.9	167.3	85.6	64.4	69.2	41.4	26.0	18.3	20.2	38.5	51.9
77.5°	193.3	123.1	55.8	37.5	47.1	28.9	17.3	14.4	17.3	32.7	50.0
80°	155.8	65.4	32.7	19.2	26.0	16.3	11.5	8.7	4.8	12.5	26.0
82.5°	155.8	39.4	15.4	13.5	13.5	8.7	5.8	3.8	1.0	0.0	6.7
85°	104.8	16.3	9.6	8.7	6.7	2.9	1.9	1.0	0.0	0.0	0.0
87.5°	17.3	6.7	3.8	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)