

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: P320078

Luminaire Tested: **GAN-SA4B-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21904 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 171
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

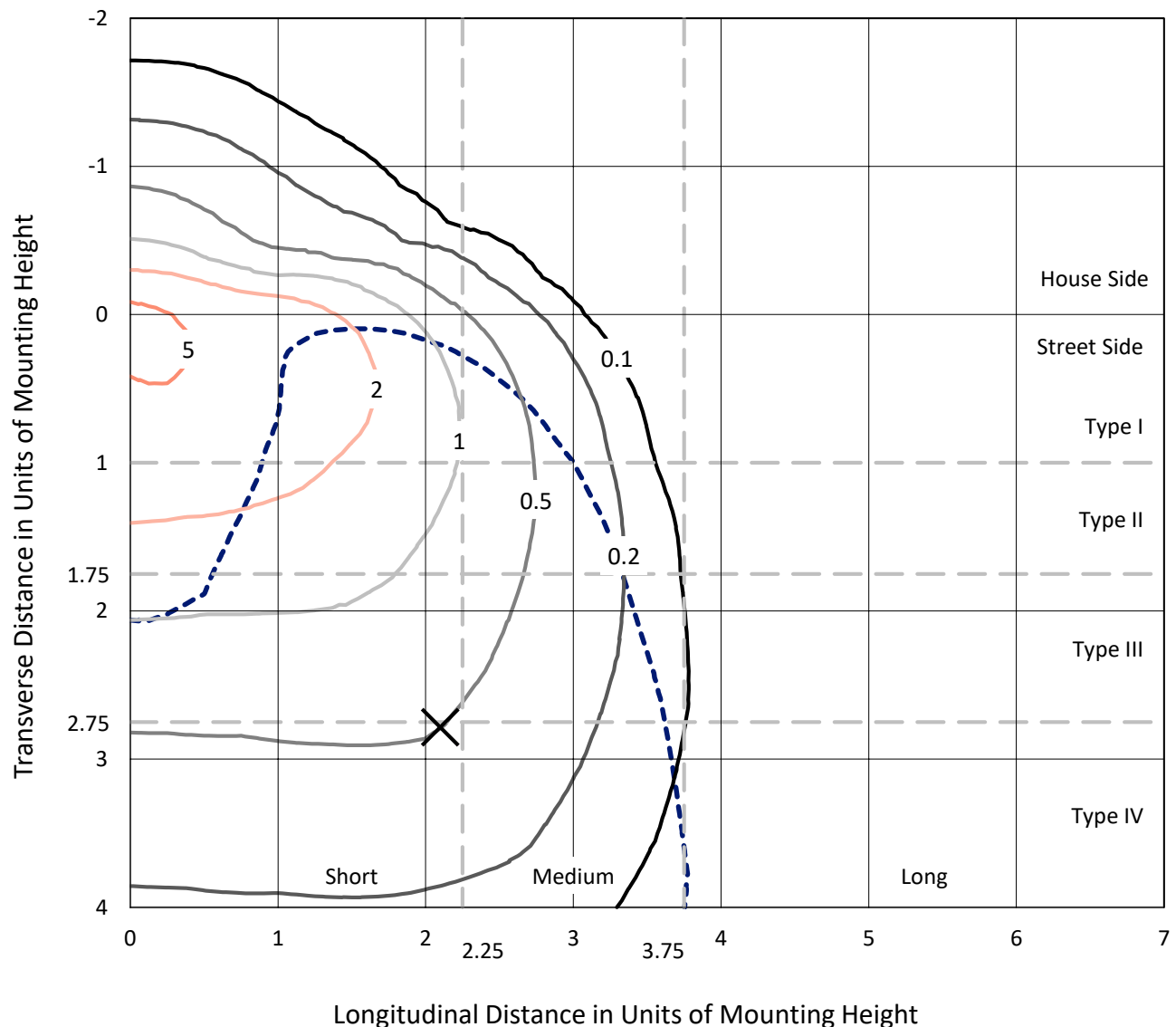


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Iso-Footcandle Lines of Horizontal Illumination

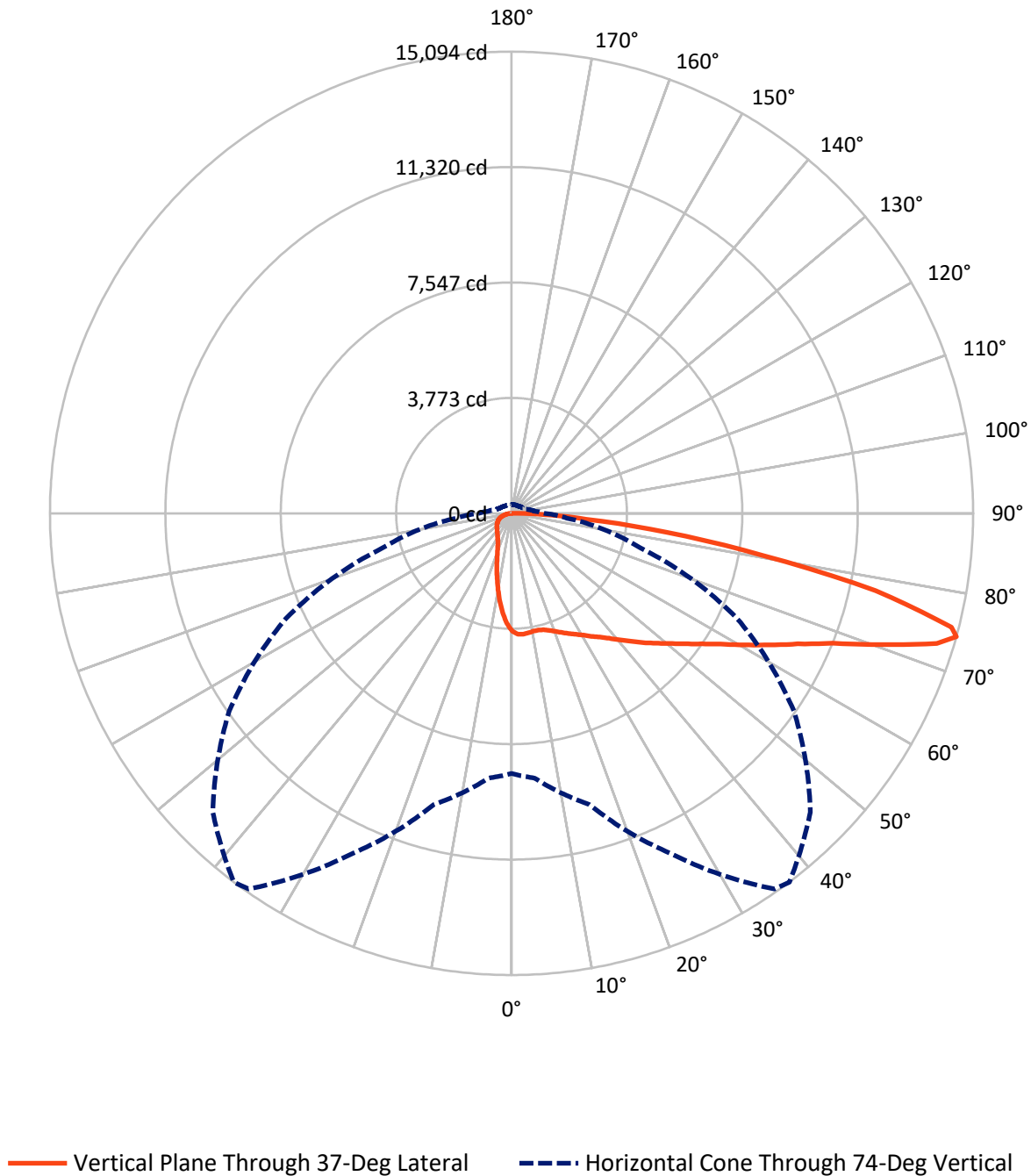
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3013.8	0.0	3013.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	18890.2	0.0	18890.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	21904.0	0.0	21904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.6
10°-20°	871.2	4.0
20°-30°	1342.3	6.1
30°-40°	1951.9	8.9
40°-50°	2872.8	13.1
50°-60°	4034.4	18.4
60°-70°	5106.3	23.3
70°-80°	4496.3	20.5
80°-90°	889.0	4.1
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°	21904.0	100.0
0°-180°	21904.0	100.0

Coefficient of Utilization



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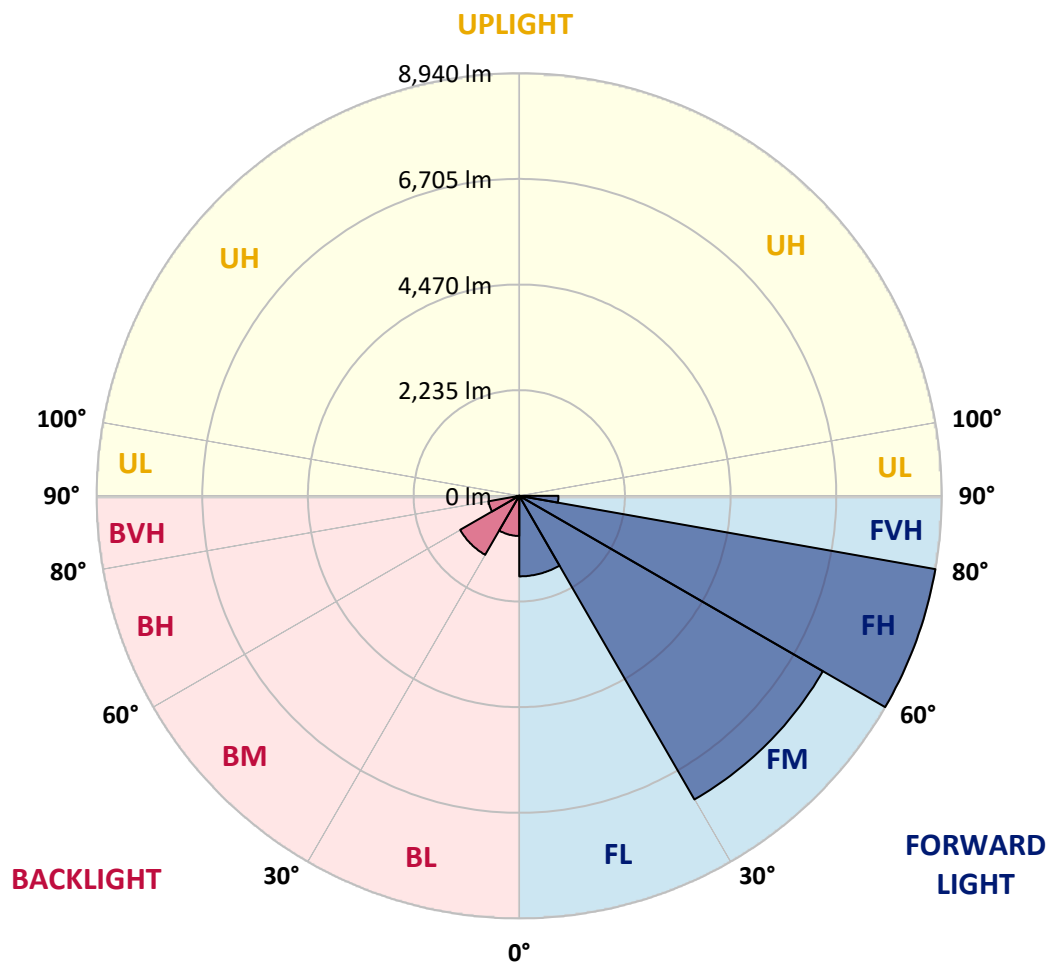
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.4	7.8			
FM	(30°-60°)	7416.9	33.9			
FH	(60°-80°)	8940.1	40.8			G4/12000
FVH	(80°-90°)	828.8	3.8			G5
BL	(0°-30°)	848.9	3.9	B2/1000		
BM	(30°-60°)	1442.2	6.6	B2/2500		
BH	(60°-80°)	662.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	60.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3991.3	3992.1	3991.3	3985.2	3970.5	3958.2	3948.1	3933.5	3901.1	3876.4	3839.3
5°	4029.1	4024.5	4021.4	4009.9	3986.7	3972.8	3953.5	3925.8	3872.5	3823.1	3763.0
7.5°	4011.4	4006.0	3999.1	3985.2	3958.9	3947.4	3920.4	3884.1	3820.0	3755.2	3668.8
10°	3956.6	3955.1	3952.0	3948.9	3926.5	3917.3	3892.6	3854.0	3790.7	3712.0	3611.0
12.5°	3895.7	3899.5	3911.9	3928.1	3918.0	3913.4	3898.0	3871.7	3806.9	3722.1	3600.2
15°	3857.1	3867.9	3901.1	3943.5	3952.0	3950.4	3946.6	3929.6	3860.9	3766.8	3624.8
17.5°	3844.0	3861.7	3925.0	3995.2	4019.9	4025.3	4026.8	3997.5	3921.1	3821.6	3650.3
20°	3867.9	3890.3	3982.9	4079.3	4118.6	4121.7	4114.8	4063.9	3978.2	3868.7	3664.2
22.5°	3940.4	3960.5	4076.2	4185.0	4229.8	4234.4	4213.6	4136.4	4038.4	3924.2	3683.5
25°	4080.1	4104.8	4220.5	4329.3	4352.4	4353.2	4323.1	4227.4	4117.1	4002.1	3725.1
27.5°	4262.2	4286.9	4391.0	4497.5	4485.1	4478.2	4437.3	4341.6	4219.7	4109.4	3799.2
30°	4465.1	4492.1	4590.8	4666.5	4637.1	4623.3	4590.1	4466.6	4362.5	4256.0	3912.6
32.5°	4675.0	4699.6	4786.1	4837.8	4800.7	4794.5	4744.4	4631.7	4548.4	4479.7	4096.3
35°	4890.2	4908.0	4992.8	5022.2	4972.8	4971.2	4957.3	4854.0	4801.5	4833.9	4363.2
37.5°	5110.1	5114.7	5187.3	5188.8	5174.2	5180.3	5195.0	5130.2	5144.8	5245.9	4710.4
40°	5306.1	5318.4	5370.9	5387.1	5412.6	5434.2	5507.5	5465.0	5578.5	5757.5	5142.5
42.5°	5451.2	5475.1	5559.2	5600.8	5683.4	5717.3	5820.7	5860.1	6088.5	6357.0	5656.4
45°	5573.8	5610.9	5745.9	5831.5	5971.2	6030.6	6178.7	6310.7	6664.8	7007.4	6197.3
47.5°	5706.5	5753.6	5922.6	6086.2	6276.0	6343.1	6612.4	6809.9	7279.8	7661.7	6707.3
50°	5901.7	5938.0	6103.1	6360.1	6596.9	6683.4	7056.0	7339.2	7904.7	8285.1	7149.4
52.5°	6174.1	6160.2	6299.9	6660.2	6978.1	7084.6	7529.8	7902.4	8538.2	8849.2	7522.8
55°	6448.0	6424.9	6522.9	6974.2	7422.5	7534.4	8051.3	8468.0	9140.8	9356.8	7809.1
57.5°	6752.8	6708.8	6791.4	7328.4	7928.7	8062.1	8635.4	9069.0	9733.4	9767.3	7991.2
60°	7066.8	7007.4	7100.0	7767.4	8571.4	8728.8	9319.0	9655.4	10292.0	10096.0	8049.8
62.5°	7341.5	7299.8	7442.6	8257.4	9295.9	9468.7	9990.3	10278.9	10842.9	10232.6	7838.4
65°	7581.5	7588.4	7835.3	8808.3	10103.7	10288.1	10760.3	11047.4	11276.5	10151.6	7343.8
67.5°	7867.7	7907.1	8328.3	9533.5	11120.7	11322.8	11880.7	11885.3	11518.8	9676.3	6370.1
70°	8285.1	8366.1	9006.6	10539.7	12566.6	12844.3	13274.9	12377.5	11178.5	8387.8	5012.1
72.5°	8655.5	8806.7	9728.0	11690.8	14328.9	14539.5	14090.4	12093.6	9756.5	6286.0	3122.5
74°	8505.0	8692.5	9859.1	12258.0	14992.4	15093.5	13815.0	11264.9	8134.7	4353.2	1814.7
75°	8181.0	8384.7	9667.8	12252.6	14908.3	14852.0	13149.9	10318.2	6699.6	2969.0	1207.5
77.5°	6602.3	6817.6	8146.3	10501.1	12224.0	12170.8	10101.4	6921.8	2934.3	973.7	613.4
80°	3838.6	4002.9	5056.9	6668.7	8242.7	8339.1	6643.2	3425.0	1154.3	547.0	415.9
82.5°	1705.2	1818.6	2442.8	3404.2	4974.3	5098.5	3479.0	1794.7	712.9	332.5	250.0
85°	1118.8	1202.9	1483.0	1621.1	2368.7	2453.6	1702.9	1397.3	470.7	182.9	183.6
87.5°	804.7	885.8	1101.8	962.1	1087.1	1029.3	926.7	1293.2	189.0	104.2	61.7
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°	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4	3859.4
2.5°	3823.1	3810.8	3783.0	3730.5	3701.2	3676.5	3635.6	3611.7	3600.9	3600.2	3604.8
5°	3728.2	3699.7	3627.9	3540.0	3469.8	3405.7	3326.2	3278.4	3244.5	3224.4	3229.8
7.5°	3617.9	3573.1	3460.5	3320.1	3207.4	3083.2	2960.5	2887.2	2830.1	2787.7	2795.4
10°	3542.3	3480.6	3316.2	3114.1	2926.6	2746.0	2577.0	2476.0	2395.7	2334.0	2338.6
12.5°	3516.8	3433.5	3205.9	2935.8	2672.7	2425.8	2205.2	2050.1	1967.5	1897.3	1902.7
15°	3520.7	3408.8	3113.3	2775.3	2444.3	2133.4	1865.7	1684.3	1572.5	1523.9	1524.6
17.5°	3523.8	3380.3	3016.1	2603.3	2218.3	1860.3	1569.4	1385.7	1280.0	1235.3	1236.1
20°	3513.7	3334.0	2895.7	2405.8	1982.2	1609.5	1327.9	1172.0	1091.8	1057.1	1057.1
22.5°	3500.6	3279.2	2759.9	2207.5	1749.2	1391.9	1155.0	1036.2	989.9	966.8	966.0
25°	3506.8	3238.3	2621.0	2003.8	1534.7	1218.3	1040.1	961.4	930.5	915.9	915.1
27.5°	3540.0	3219.0	2492.9	1800.8	1347.2	1087.9	962.9	907.4	887.3	878.0	878.0
30°	3600.2	3219.0	2359.5	1628.0	1191.3	991.5	903.5	865.7	851.8	845.6	845.6
32.5°	3705.1	3236.7	2230.6	1456.7	1067.1	915.9	854.1	828.7	817.9	814.8	814.8
35°	3885.6	3296.9	2104.8	1294.7	966.8	854.1	807.1	792.4	784.7	783.9	786.2
37.5°	4139.5	3419.6	1986.8	1175.1	895.8	804.0	767.7	756.1	751.5	755.4	758.5
40°	4458.9	3586.3	1879.5	1067.1	841.8	763.9	731.4	723.7	721.4	726.8	731.4
42.5°	4844.7	3811.6	1791.6	989.2	800.1	729.9	700.6	691.3	689.0	695.2	701.4
45°	5262.1	4053.8	1729.9	931.3	767.7	704.4	673.6	663.6	658.9	662.0	669.0
47.5°	5641.7	4283.0	1705.2	890.4	736.9	682.8	649.7	637.3	629.6	628.1	633.5
50°	5961.9	4453.5	1716.7	865.7	712.2	658.9	626.5	612.6	601.1	594.1	598.0
52.5°	6194.9	4560.8	1727.5	854.9	692.9	632.7	601.1	587.9	572.5	560.9	560.9
55°	6363.9	4585.4	1703.6	846.4	678.2	604.1	572.5	560.2	544.7	531.6	530.1
57.5°	6430.3	4516.0	1614.9	834.1	668.2	577.1	542.4	533.2	520.0	504.6	503.8
60°	6340.8	4301.5	1443.6	807.8	655.1	554.8	512.3	506.2	500.0	485.3	484.5
62.5°	5981.2	3830.9	1222.2	754.6	628.8	530.8	484.5	487.6	488.4	478.4	476.8
65°	5329.2	3184.3	1006.1	685.2	589.5	502.3	456.0	470.7	479.1	477.6	475.3
67.5°	4381.8	2478.3	852.6	611.9	537.8	462.9	425.1	442.1	449.1	454.5	452.9
70°	3252.2	1747.6	705.2	534.7	475.3	416.6	385.0	393.5	388.9	395.0	397.4
72.5°	1813.2	1048.6	574.8	457.5	410.5	362.6	340.3	338.7	328.7	328.7	328.7
74°	1087.9	769.3	505.4	409.7	371.1	327.1	307.9	300.9	291.7	292.4	291.7
75°	875.0	661.2	463.7	378.1	343.3	306.3	287.0	277.8	270.8	270.8	270.0
77.5°	552.4	502.3	373.4	300.9	274.7	252.3	239.2	226.8	226.8	226.1	225.3
80°	417.4	399.7	290.9	227.6	210.6	193.7	185.2	179.8	179.8	182.1	181.3
82.5°	286.3	300.9	204.5	158.9	150.5	138.1	136.6	137.3	135.0	131.9	131.2
85°	209.1	226.1	138.1	100.3	91.8	84.1	90.3	93.4	89.5	82.6	79.5
87.5°	80.2	148.1	74.1	41.7	38.6	33.2	38.6	40.1	43.2	33.9	34.7
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)