

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: P318709

Luminaire Tested: **GAN-SA5A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23432 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

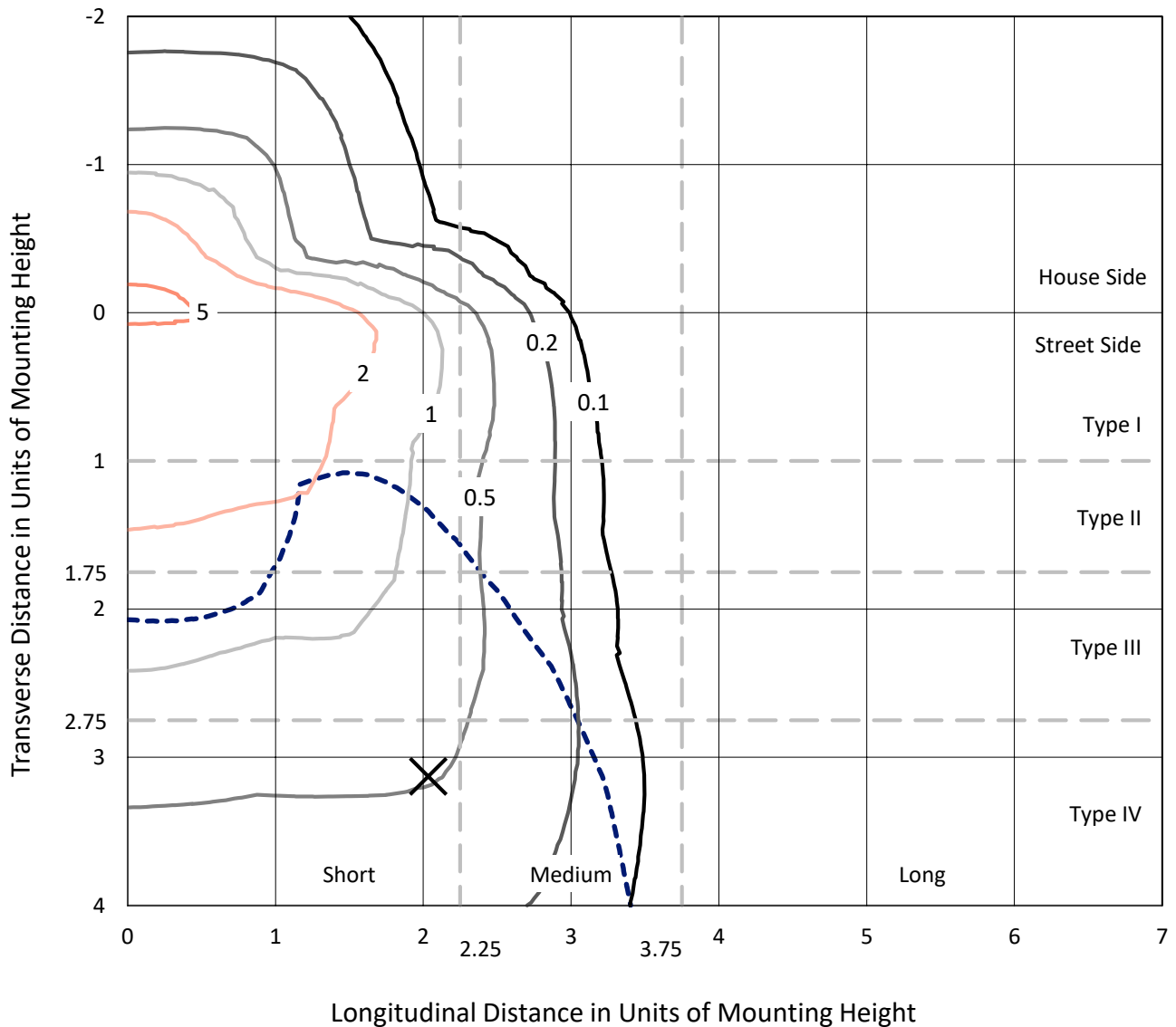
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GAN-SA5A-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

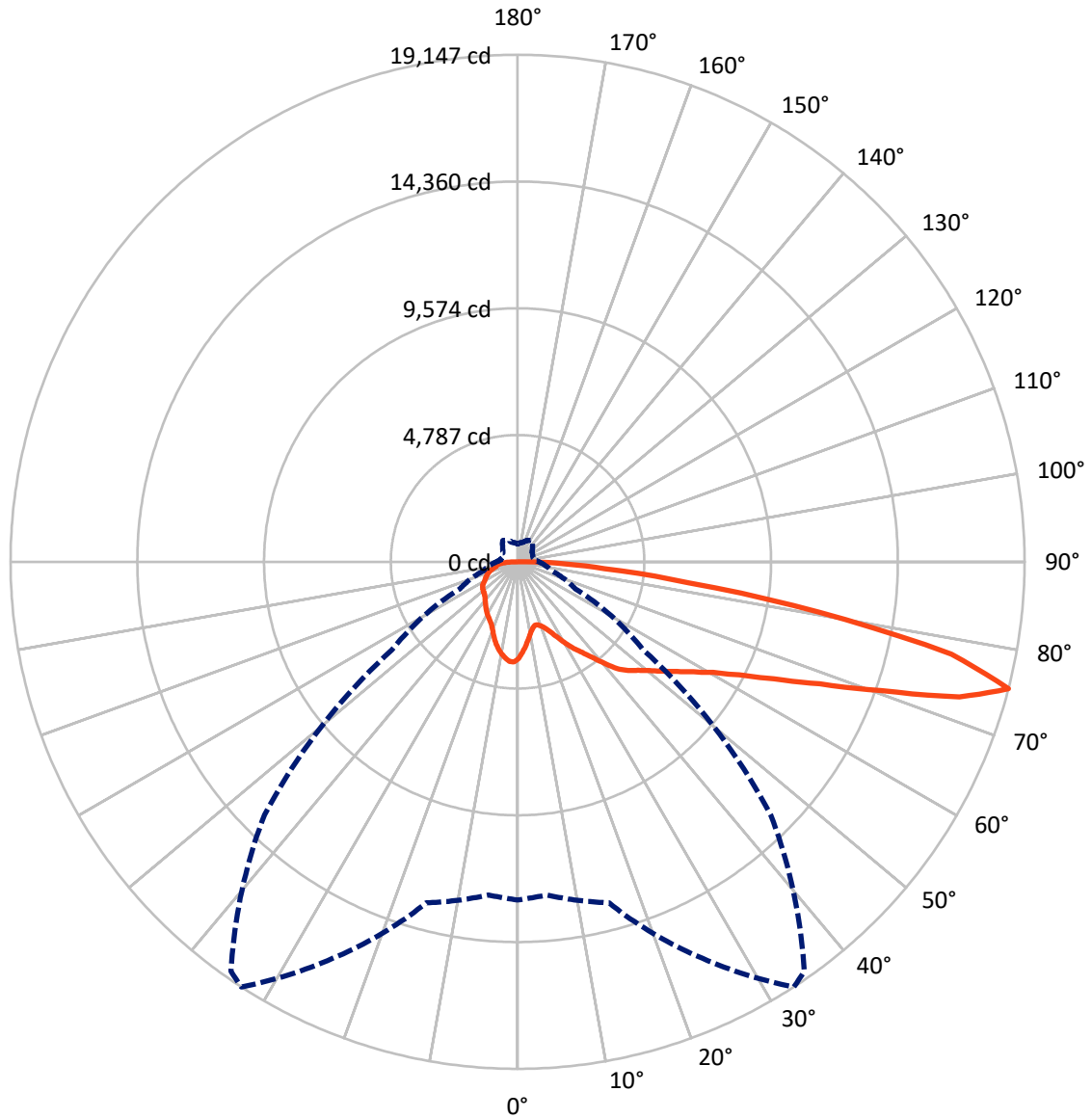
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GAN-SA5A-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5031.5	0.0	5031.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18400.5	0.0	18400.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	23432.0	0.0	23432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.2	1.4
10°-20°	897.1	3.8
20°-30°	1465.1	6.3
30°-40°	2181.9	9.3
40°-50°	3129.4	13.4
50°-60°	4296.3	18.3
60°-70°	5378.7	23.0
70°-80°	4865.9	20.8
80°-90°	886.3	3.8
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°	23432.0	100.0
0°-180°	23432.0	100.0

Coefficient of Utilization



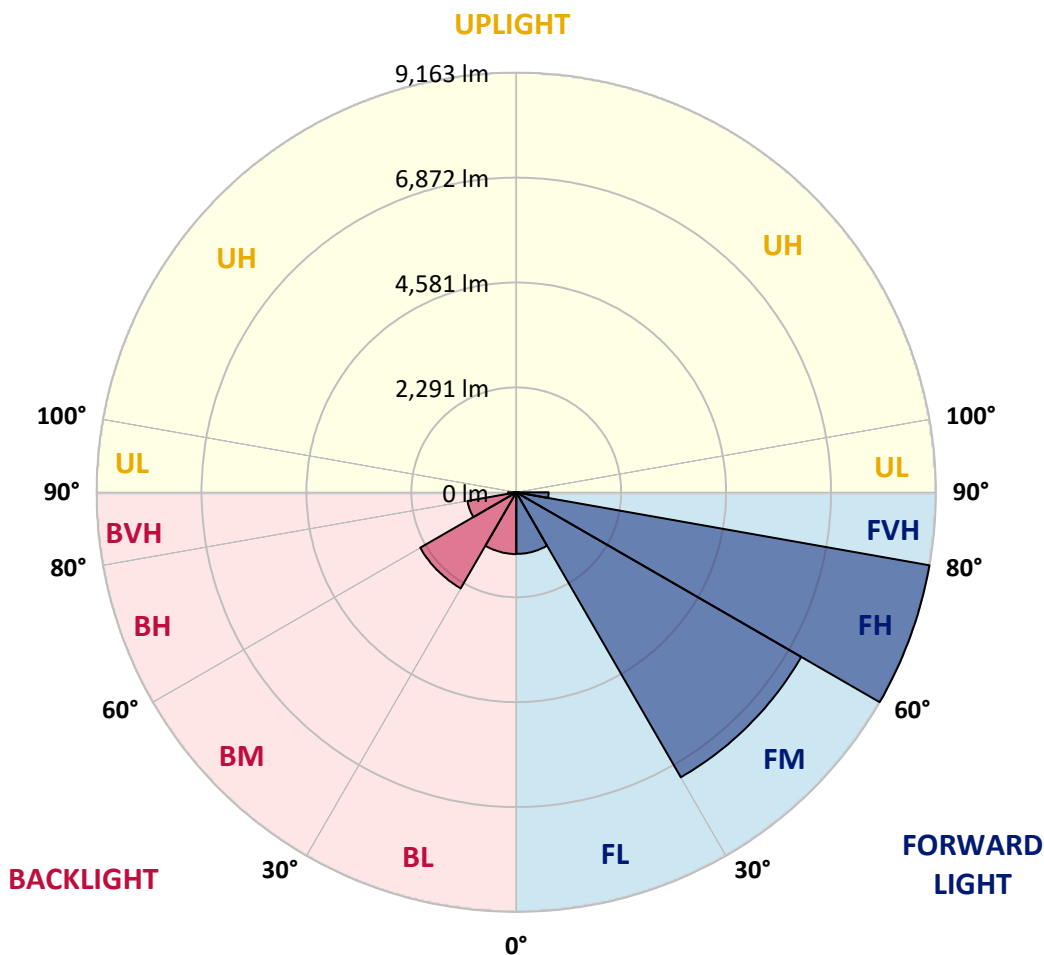
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1345.8	5.7			
FM (30°-60°)	7186.1	30.7			
FH (60°-80°)	9162.7	39.1			G4/12000
FVH (80°-90°)	705.9	3.0			G4/750
BL (0°-30°)	1347.7	5.8	B3/2500		
BM (30°-60°)	2421.5	10.3	B2/2500		
BH (60°-80°)	1081.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	180.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6
2.5°	3401.1	3388.2	3412.4	3415.7	3436.7	3444.8	3474.0	3519.3	3556.5	3599.4	3638.3
5°	3092.7	3083.8	3117.8	3142.1	3188.2	3207.7	3276.5	3372.8	3458.6	3555.7	3643.9
7.5°	2799.7	2794.9	2832.9	2888.0	2941.4	2968.1	3087.1	3227.1	3370.4	3527.4	3662.6
10°	2552.9	2551.2	2587.7	2641.9	2720.4	2750.4	2904.1	3088.7	3289.4	3505.5	3694.1
12.5°	2414.5	2420.1	2437.1	2482.4	2555.3	2585.2	2756.0	2972.9	3221.4	3498.2	3740.3
15°	2448.4	2457.4	2428.2	2426.6	2478.4	2501.9	2662.1	2890.4	3172.9	3510.4	3807.4
17.5°	2593.3	2594.9	2518.1	2469.5	2501.1	2513.2	2633.0	2843.4	3144.5	3537.9	3891.6
20°	2797.3	2793.3	2657.3	2576.3	2593.3	2596.6	2674.3	2844.2	3142.1	3585.7	4000.9
22.5°	3067.6	3037.7	2854.8	2744.7	2740.6	2735.8	2780.3	2904.1	3177.7	3663.4	4131.2
25°	3420.5	3392.2	3140.5	2989.9	2957.6	2945.4	2951.9	3032.0	3248.1	3746.7	4276.9
27.5°	3813.1	3763.7	3520.9	3308.0	3240.9	3223.9	3185.0	3212.5	3325.0	3826.9	4450.1
30°	4141.7	4115.0	3902.9	3650.4	3571.1	3546.8	3444.8	3414.9	3435.9	3936.1	4668.6
32.5°	4325.5	4307.6	4179.0	3975.0	3901.3	3867.3	3723.3	3663.4	3614.0	4108.5	4964.9
35°	4548.0	4536.7	4459.0	4310.9	4201.6	4166.0	4054.3	3992.0	3864.9	4345.7	5347.7
37.5°	4831.3	4819.2	4820.8	4701.0	4570.7	4537.5	4463.9	4398.3	4190.3	4657.3	5763.8
40°	5151.9	5128.4	5119.5	5113.8	5031.3	5012.6	4973.8	4884.8	4598.2	5029.6	6174.1
42.5°	5634.3	5550.9	5372.8	5440.0	5521.8	5512.0	5543.6	5415.7	5051.5	5470.0	6574.8
45°	6099.7	5962.9	5655.3	5669.9	5848.8	5903.0	6139.3	6048.7	5542.8	5952.4	6989.2
47.5°	6311.7	6208.1	5946.7	5947.5	6124.8	6237.3	6755.3	6690.5	6059.2	6500.3	7495.1
50°	6548.9	6445.3	6210.6	6298.8	6453.4	6573.2	7350.2	7317.0	6550.5	7100.1	8101.3
52.5°	6807.9	6632.3	6483.3	6641.2	6858.1	6997.3	7945.9	7855.3	7001.3	7703.9	8798.2
55°	6811.1	6763.4	6876.7	6992.4	7317.0	7487.8	8570.0	8330.4	7368.8	8297.2	9365.6
57.5°	7198.8	7121.1	7361.5	7414.9	7839.1	8031.7	9190.8	8744.0	7742.8	8752.1	9671.6
60°	7712.0	7645.6	7842.3	7983.2	8485.0	8742.4	9853.7	9168.9	8036.6	9095.3	9657.0
62.5°	8598.3	8523.0	8520.6	8718.1	9393.9	9693.4	10597.5	9585.8	8153.1	9163.3	9245.0
65°	9895.8	9776.0	9550.2	9644.0	10649.3	10948.0	11428.8	9887.7	7999.3	8799.0	8183.9
67.5°	11158.4	11154.4	10876.8	11069.4	12307.0	12546.6	12375.8	9917.6	7519.4	7530.7	6301.2
70°	12417.1	12433.3	12386.3	13056.5	14546.6	14795.9	13384.3	9515.4	6440.4	5438.4	3775.1
72.5°	13414.3	13410.2	13646.6	15374.6	17453.2	17397.3	14234.2	8296.4	4624.1	2935.7	1804.2
75°	12768.3	12627.5	13331.7	16522.4	19147.3	18874.5	13511.4	5787.2	2399.9	1336.3	971.3
77.5°	8328.0	8461.5	9495.1	13649.0	16748.2	16416.3	9912.8	2700.2	1130.7	876.6	704.2
80°	3015.8	3156.7	4446.1	7731.4	11538.9	11484.6	4881.5	1109.7	764.9	662.1	513.2
82.5°	1037.7	1089.5	1754.0	3433.5	6514.9	6757.7	1836.5	630.5	556.1	469.5	351.3
85°	407.1	466.2	802.1	1652.0	3286.2	3310.5	743.8	377.2	386.9	307.6	192.6
87.5°	154.6	187.8	383.7	767.3	1500.6	1378.4	266.3	179.7	220.2	182.9	91.5
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°	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6	3662.6
2.5°	3668.2	3685.2	3720.8	3745.1	3771.0	3778.3	3781.5	3788.0	3794.5	3792.1	3792.9
5°	3690.9	3724.1	3781.5	3805.8	3817.1	3804.2	3779.1	3758.9	3744.3	3736.2	3733.8
7.5°	3728.1	3775.1	3836.6	3832.5	3806.6	3749.2	3684.4	3635.8	3595.4	3580.8	3572.7
10°	3777.5	3832.5	3875.4	3829.3	3754.0	3654.5	3557.3	3482.1	3421.4	3397.9	3393.8
12.5°	3840.6	3896.5	3904.6	3806.6	3682.0	3546.0	3414.1	3314.5	3223.9	3194.7	3188.2
15°	3922.4	3975.0	3924.8	3767.0	3592.9	3410.0	3239.2	3104.1	3008.6	2972.9	2960.0
17.5°	4008.2	4058.4	3928.8	3701.4	3476.4	3248.9	3034.5	2896.0	2786.8	2745.5	2740.6
20°	4111.0	4133.6	3911.8	3607.5	3316.1	3040.1	2814.3	2684.0	2625.7	2596.6	2593.3
22.5°	4238.0	4213.8	3873.0	3480.4	3113.0	2798.9	2615.2	2554.5	2539.9	2533.4	2535.9
25°	4372.4	4297.9	3815.5	3314.5	2856.4	2557.7	2469.5	2486.5	2505.9	2503.5	2503.5
27.5°	4520.5	4383.7	3727.3	3094.4	2572.3	2360.2	2370.7	2433.1	2462.2	2461.4	2460.6
30°	4710.7	4480.9	3614.8	2829.7	2306.8	2221.0	2284.9	2361.0	2400.7	2399.1	2399.9
32.5°	4944.6	4587.7	3461.8	2534.2	2115.0	2118.2	2191.9	2267.1	2313.3	2309.2	2310.0
35°	5218.2	4707.5	3254.6	2242.9	1987.9	2036.5	2094.7	2147.3	2191.1	2185.4	2179.7
37.5°	5516.1	4824.9	2979.4	1982.2	1884.3	1960.4	2008.9	2017.8	2038.1	2023.5	2013.0
40°	5799.4	4914.7	2624.9	1768.5	1779.9	1895.6	1927.2	1891.6	1855.2	1850.3	1835.7
42.5°	6046.2	4944.6	2266.3	1597.8	1669.8	1827.6	1847.1	1772.6	1707.0	1676.3	1663.3
45°	6306.9	4955.2	1932.0	1454.5	1563.8	1766.9	1788.0	1688.4	1596.1	1529.8	1507.9
47.5°	6647.6	5031.3	1672.2	1348.5	1482.8	1726.5	1756.4	1621.2	1501.4	1406.7	1386.5
50°	7093.6	5181.8	1461.0	1267.5	1430.2	1699.7	1733.7	1555.7	1423.7	1309.6	1289.4
52.5°	7589.0	5320.2	1290.2	1202.0	1379.2	1652.8	1704.6	1508.7	1350.9	1219.8	1197.9
55°	7935.4	5214.2	1152.6	1134.0	1312.9	1585.6	1664.1	1469.1	1246.5	1132.4	1112.9
57.5°	8001.8	4851.6	1048.2	1063.6	1232.7	1501.4	1601.8	1380.8	1189.8	1094.3	1074.1
60°	7820.5	4346.5	970.5	998.8	1146.9	1395.4	1485.3	1318.5	1135.6	1053.8	1036.8
62.5°	7364.8	3829.3	913.0	940.5	1066.8	1287.8	1412.4	1253.0	1080.6	1007.7	990.7
65°	6444.5	3215.0	858.0	888.7	992.3	1194.7	1346.8	1192.3	1026.3	970.5	954.3
67.5°	4864.5	2408.0	806.2	833.7	926.0	1113.7	1275.6	1132.4	973.7	938.1	918.7
70°	2864.5	1507.9	747.1	776.2	856.3	1029.6	1199.5	1066.8	908.2	892.0	866.9
72.5°	1333.1	907.3	679.9	708.2	768.9	917.1	1101.6	981.0	830.4	794.8	760.8
75°	795.6	663.7	600.6	625.7	668.6	797.3	978.6	893.6	756.8	709.8	674.2
77.5°	594.9	507.5	513.2	539.9	574.7	697.7	866.9	824.8	700.1	663.7	639.4
80°	428.2	385.3	418.5	447.6	484.0	634.6	830.4	762.5	633.0	584.4	561.7
82.5°	285.7	276.8	314.9	344.8	380.4	555.3	780.3	667.8	540.7	479.2	429.0
85°	157.8	166.7	212.1	225.0	255.8	390.9	639.4	536.6	407.1	327.8	313.2
87.5°	65.6	76.9	114.1	110.1	136.0	233.1	420.9	323.8	259.0	193.4	150.5
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)