

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: P318789

Luminaire Tested: **GAN-SA5A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318789
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-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 23431 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

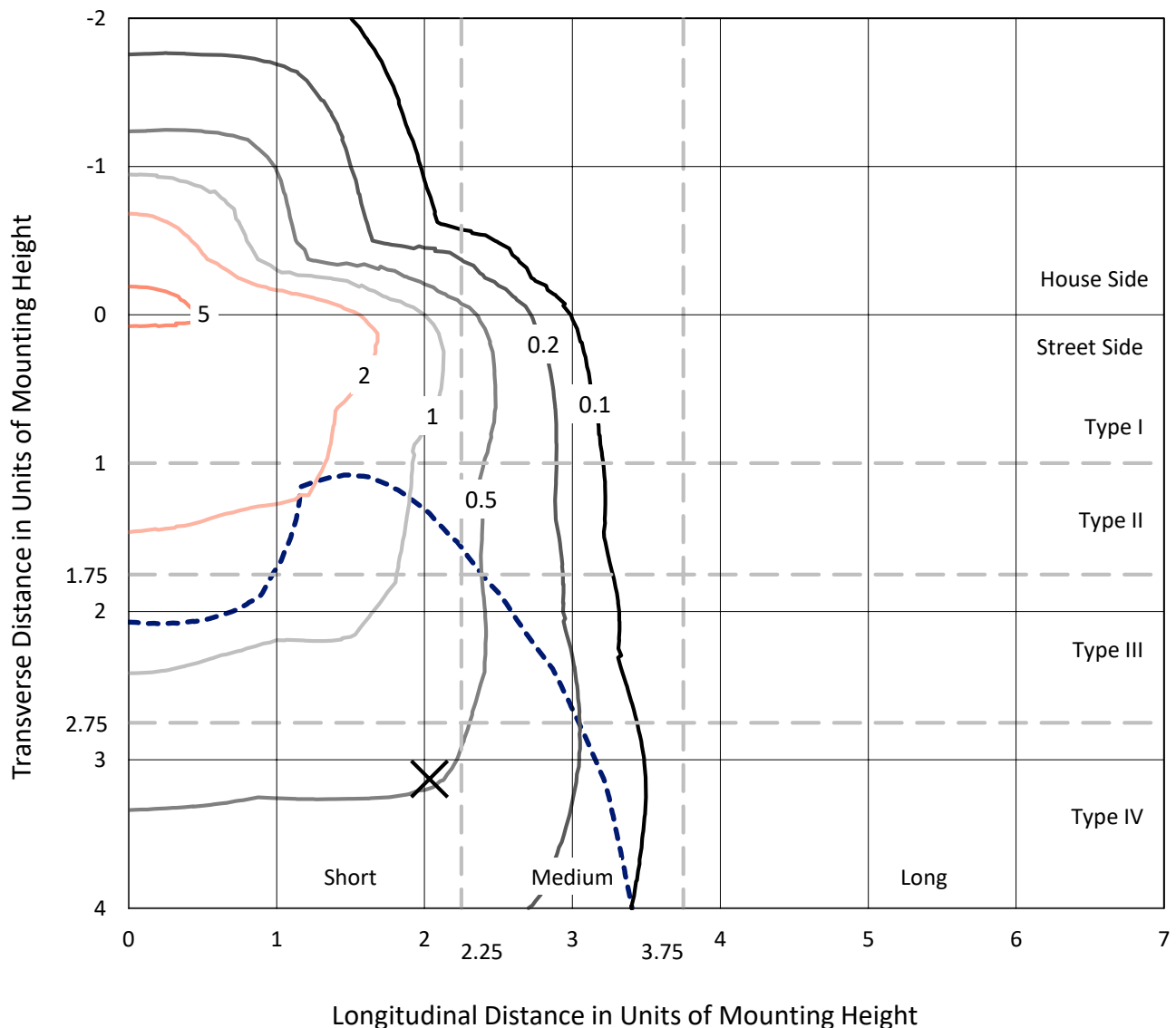
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

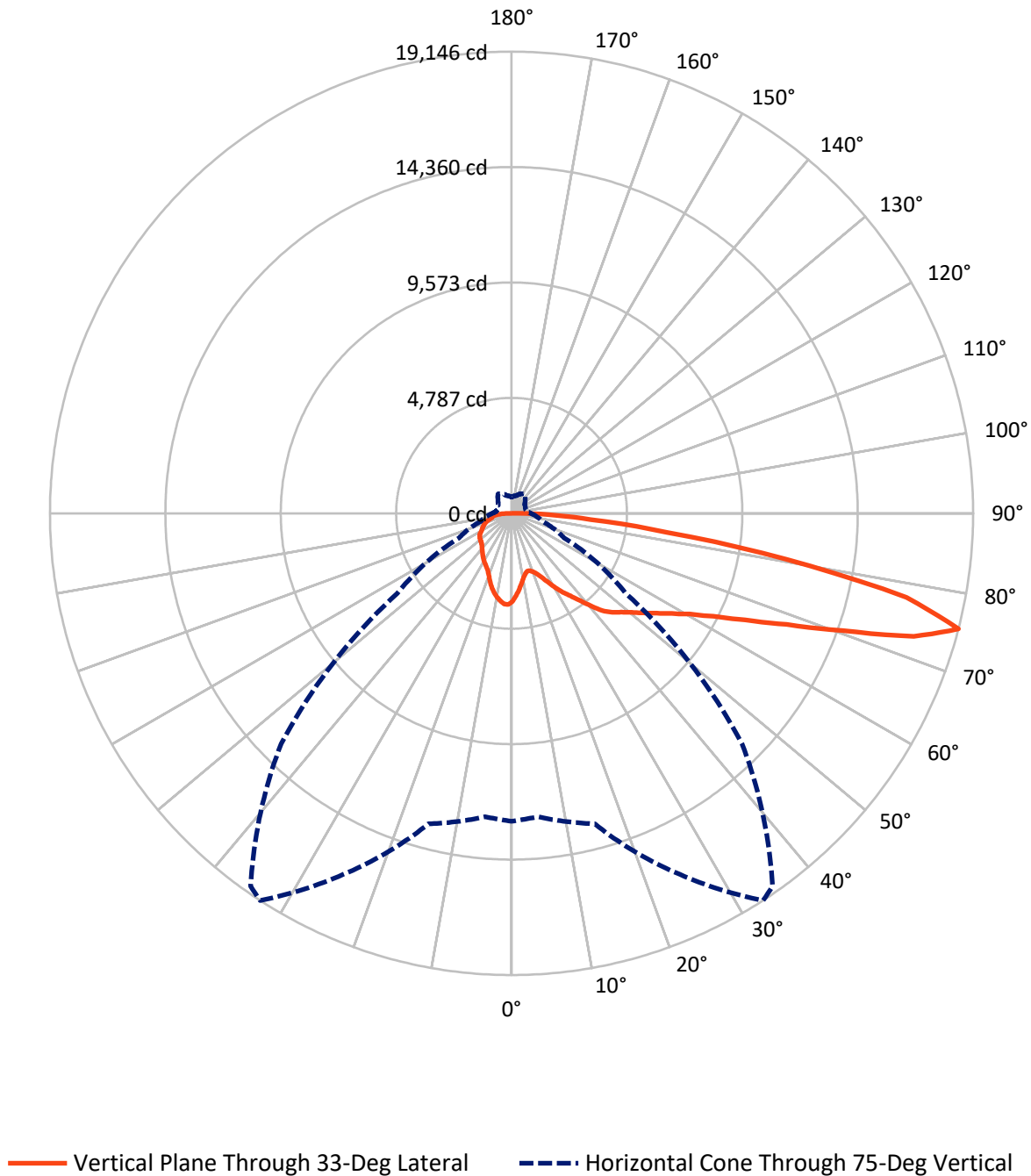
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5031.2	0.0	5031.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18399.7	0.0	18399.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	23431.0	0.0	23431.0
	% 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°	2181.8	9.3
40°-50°	3129.3	13.4
50°-60°	4296.1	18.3
60°-70°	5378.5	23.0
70°-80°	4865.7	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°	23431.0	100.0
0°-180°	23431.0	100.0

Coefficient of Utilization



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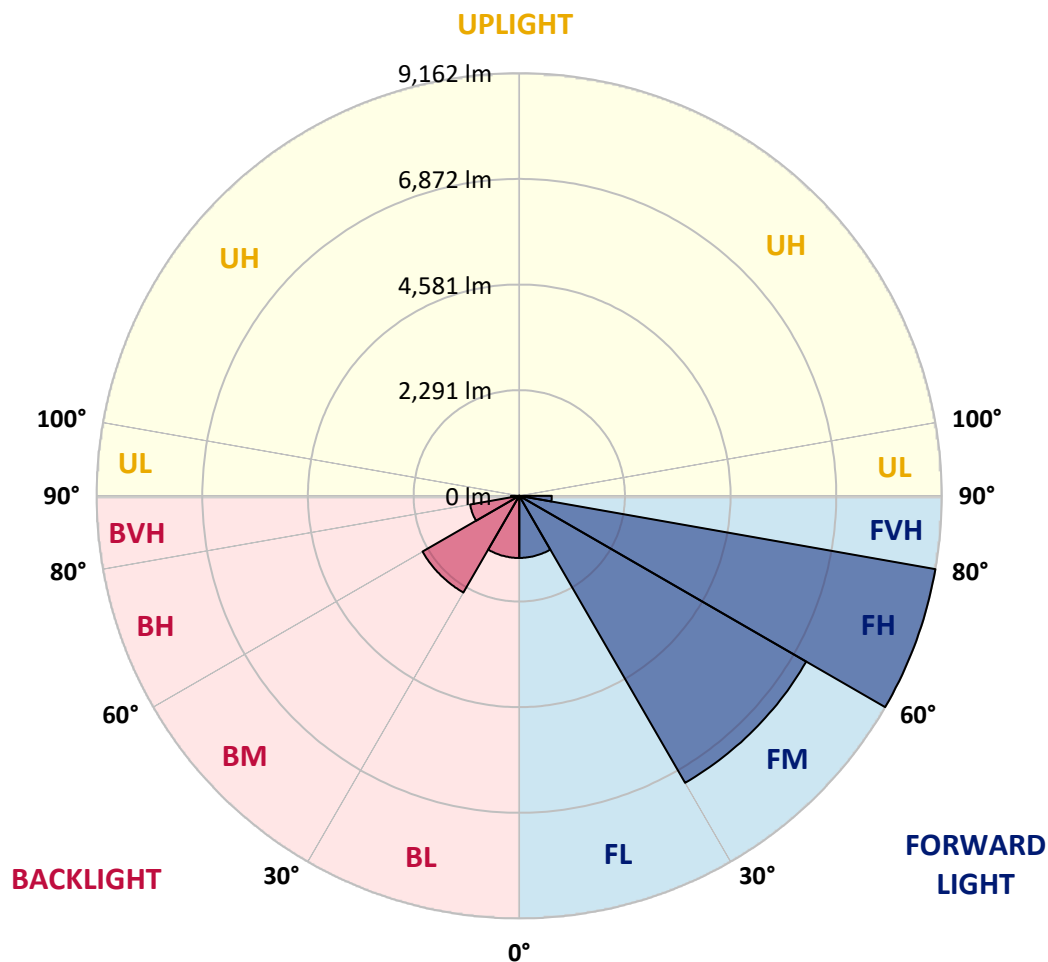
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.8	5.7			
FM	(30°-60°)	7185.8	30.7			
FH	(60°-80°)	9162.3	39.1			G4/12000
FVH	(80°-90°)	705.9	3.0			G4/750
BL	(0°-30°)	1347.6	5.8	B3/2500		
BM	(30°-60°)	2421.4	10.3	B2/2500		
BH	(60°-80°)	1081.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	180.4	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°	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4
2.5°	3401.0	3388.0	3412.3	3415.5	3436.6	3444.7	3473.8	3519.1	3556.4	3599.3	3638.1
5°	3092.6	3083.7	3117.7	3142.0	3188.1	3207.5	3276.3	3372.6	3458.4	3555.6	3643.8
7.5°	2799.6	2794.8	2832.8	2887.8	2941.2	2968.0	3086.9	3227.0	3370.2	3527.2	3662.4
10°	2552.8	2551.1	2587.6	2641.8	2720.3	2750.2	2904.0	3088.6	3289.3	3505.4	3694.0
12.5°	2414.3	2420.0	2437.0	2482.3	2555.2	2585.1	2755.9	2972.8	3221.3	3498.1	3740.1
15°	2448.3	2457.2	2428.1	2426.5	2478.3	2501.8	2662.0	2890.3	3172.7	3510.2	3807.3
17.5°	2593.2	2594.8	2517.9	2469.4	2501.0	2513.1	2632.9	2843.3	3144.4	3537.8	3891.4
20°	2797.2	2793.1	2657.2	2576.2	2593.2	2596.5	2674.2	2844.1	3142.0	3585.5	4000.7
22.5°	3067.5	3037.6	2854.6	2744.6	2740.5	2735.7	2780.2	2904.0	3177.6	3663.2	4131.0
25°	3420.4	3392.1	3140.4	2989.8	2957.4	2945.3	2951.8	3031.9	3248.0	3746.6	4276.7
27.5°	3812.9	3763.6	3520.8	3307.9	3240.7	3223.7	3184.9	3212.4	3324.9	3826.7	4449.9
30°	4141.5	4114.8	3902.8	3650.3	3570.9	3546.7	3444.7	3414.7	3435.8	3936.0	4668.4
32.5°	4325.3	4307.5	4178.8	3974.8	3901.2	3867.2	3723.1	3663.2	3613.8	4108.4	4964.7
35°	4547.8	4536.5	4458.8	4310.7	4201.4	4165.8	4054.1	3991.8	3864.7	4345.5	5347.5
37.5°	4831.1	4819.0	4820.6	4700.8	4570.5	4537.3	4463.7	4398.1	4190.1	4657.1	5763.5
40°	5151.6	5128.2	5119.3	5113.6	5031.0	5012.4	4973.6	4884.5	4598.0	5029.4	6173.9
42.5°	5634.0	5550.7	5372.6	5439.8	5521.5	5511.8	5543.4	5415.5	5051.3	5469.7	6574.5
45°	6099.4	5962.6	5655.1	5669.6	5848.5	5902.7	6139.1	6048.4	5542.6	5952.1	6988.9
47.5°	6311.5	6207.9	5946.4	5947.2	6124.5	6237.0	6755.0	6690.2	6058.9	6500.0	7494.8
50°	6548.6	6445.0	6210.3	6298.5	6453.1	6572.9	7349.9	7316.7	6550.2	7099.8	8101.0
52.5°	6807.6	6632.0	6483.0	6640.9	6857.8	6997.0	7945.6	7854.9	7001.0	7703.6	8797.8
55°	6810.8	6763.1	6876.4	6992.1	7316.7	7487.5	8569.6	8330.0	7368.5	8296.8	9365.2
57.5°	7198.5	7120.8	7361.2	7414.6	7838.7	8031.4	9190.4	8743.6	7742.4	8751.7	9671.2
60°	7711.7	7645.3	7842.0	7982.8	8484.6	8742.0	9853.3	9168.5	8036.2	9094.9	9656.6
62.5°	8597.9	8522.7	8520.2	8717.7	9393.5	9693.0	10597.1	9585.4	8152.8	9162.9	9244.6
65°	9895.4	9775.6	9549.7	9643.6	10648.9	10947.5	11428.3	9887.3	7999.0	8798.7	8183.5
67.5°	11158.0	11153.9	10876.3	11068.9	12306.5	12546.0	12375.3	9917.2	7519.0	7530.4	6300.9
70°	12416.5	12432.7	12385.8	13055.9	14546.0	14795.3	13383.7	9514.9	6440.2	5438.2	3774.9
72.5°	13413.7	13409.6	13646.0	15374.0	17452.4	17396.6	14233.6	8296.0	4623.9	2935.6	1804.1
75°	12767.8	12627.0	13331.1	16521.7	19146.4	18873.7	13510.8	5787.0	2399.8	1336.3	971.2
77.5°	8327.6	8461.1	9494.7	13648.4	16747.5	16415.6	9912.3	2700.1	1130.7	876.5	704.2
80°	3015.7	3156.5	4445.9	7731.1	11538.4	11484.1	4881.3	1109.6	764.9	662.1	513.1
82.5°	1037.6	1089.4	1753.9	3433.3	6514.6	6757.4	1836.5	630.5	556.0	469.4	351.3
85°	407.1	466.2	802.1	1651.9	3286.0	3310.3	743.8	377.2	386.9	307.6	192.6
87.5°	154.6	187.8	383.6	767.3	1500.6	1378.4	266.3	179.7	220.1	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°	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4
2.5°	3668.1	3685.1	3720.7	3745.0	3770.9	3778.1	3781.4	3787.8	3794.3	3791.9	3792.7
5°	3690.7	3723.9	3781.4	3805.7	3817.0	3804.0	3778.9	3758.7	3744.1	3736.0	3733.6
7.5°	3728.0	3774.9	3836.4	3832.4	3806.5	3749.0	3684.2	3635.7	3595.2	3580.7	3572.6
10°	3777.3	3832.4	3875.3	3829.1	3753.9	3654.3	3557.2	3481.9	3421.2	3397.7	3393.7
12.5°	3840.5	3896.3	3904.4	3806.5	3681.8	3545.8	3413.9	3314.4	3223.7	3194.6	3188.1
15°	3922.2	3974.8	3924.6	3766.8	3592.8	3409.9	3239.1	3103.9	3008.4	2972.8	2959.9
17.5°	4008.0	4058.2	3928.7	3701.2	3476.2	3248.8	3034.3	2895.9	2786.7	2745.4	2740.5
20°	4110.8	4133.4	3911.7	3607.4	3316.0	3040.0	2814.2	2683.9	2625.6	2596.5	2593.2
22.5°	4237.9	4213.6	3872.8	3480.3	3112.8	2798.8	2615.1	2554.4	2539.8	2533.3	2535.8
25°	4372.2	4297.8	3815.4	3314.4	2856.3	2557.6	2469.4	2486.4	2505.8	2503.4	2503.4
27.5°	4520.3	4383.5	3727.1	3094.2	2572.2	2360.1	2370.6	2433.0	2462.1	2461.3	2460.5
30°	4710.5	4480.7	3614.6	2829.6	2306.7	2220.9	2284.8	2360.9	2400.6	2399.0	2399.8
32.5°	4944.4	4587.5	3461.7	2534.1	2114.9	2118.1	2191.8	2267.0	2313.2	2309.1	2309.9
35°	5218.0	4707.3	3254.5	2242.8	1987.8	2036.4	2094.6	2147.3	2191.0	2185.3	2179.6
37.5°	5515.9	4824.7	2979.3	1982.1	1884.2	1960.3	2008.9	2017.8	2038.0	2023.4	2012.9
40°	5799.1	4914.5	2624.8	1768.5	1779.8	1895.5	1927.1	1891.5	1855.1	1850.2	1835.6
42.5°	6046.0	4944.4	2266.2	1597.7	1669.7	1827.6	1847.0	1772.5	1707.0	1676.2	1663.3
45°	6306.6	4955.0	1932.0	1454.4	1563.7	1766.9	1787.9	1688.3	1596.1	1529.7	1507.9
47.5°	6647.4	5031.0	1672.2	1348.4	1482.8	1726.4	1756.3	1621.2	1501.4	1406.7	1386.4
50°	7093.3	5181.6	1460.9	1267.5	1430.2	1699.7	1733.7	1555.6	1423.7	1309.6	1289.3
52.5°	7588.6	5320.0	1290.1	1201.9	1379.2	1652.7	1704.5	1508.7	1350.8	1219.7	1197.9
55°	7935.1	5214.0	1152.5	1133.9	1312.8	1585.6	1664.1	1469.0	1246.4	1132.3	1112.9
57.5°	8001.4	4851.4	1048.1	1063.5	1232.7	1501.4	1601.7	1380.8	1189.8	1094.3	1074.0
60°	7820.1	4346.3	970.4	998.8	1146.9	1395.4	1485.2	1318.5	1135.5	1053.8	1036.8
62.5°	7364.5	3829.1	913.0	940.5	1066.7	1287.7	1412.3	1252.9	1080.5	1007.7	990.7
65°	6444.2	3214.8	857.9	888.7	992.3	1194.6	1346.8	1192.2	1026.3	970.4	954.2
67.5°	4864.3	2407.9	806.1	833.7	925.9	1113.7	1275.6	1132.3	973.7	938.1	918.6
70°	2864.4	1507.9	747.0	776.2	856.3	1029.5	1199.5	1066.7	908.1	891.9	866.8
72.5°	1333.0	907.3	679.9	708.2	768.9	917.0	1101.6	981.0	830.4	794.8	760.8
75°	795.6	663.7	600.6	625.6	668.5	797.2	978.5	893.5	756.8	709.8	674.2
77.5°	594.9	507.5	513.1	539.8	574.7	697.7	866.8	824.7	700.1	663.7	639.4
80°	428.2	385.3	418.4	447.6	484.0	634.5	830.4	762.4	632.9	584.4	561.7
82.5°	285.7	276.8	314.8	344.8	380.4	555.2	780.2	667.7	540.7	479.1	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	323.7	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)