

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: P318423

Luminaire Tested: **GAN-SA9D-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69381 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

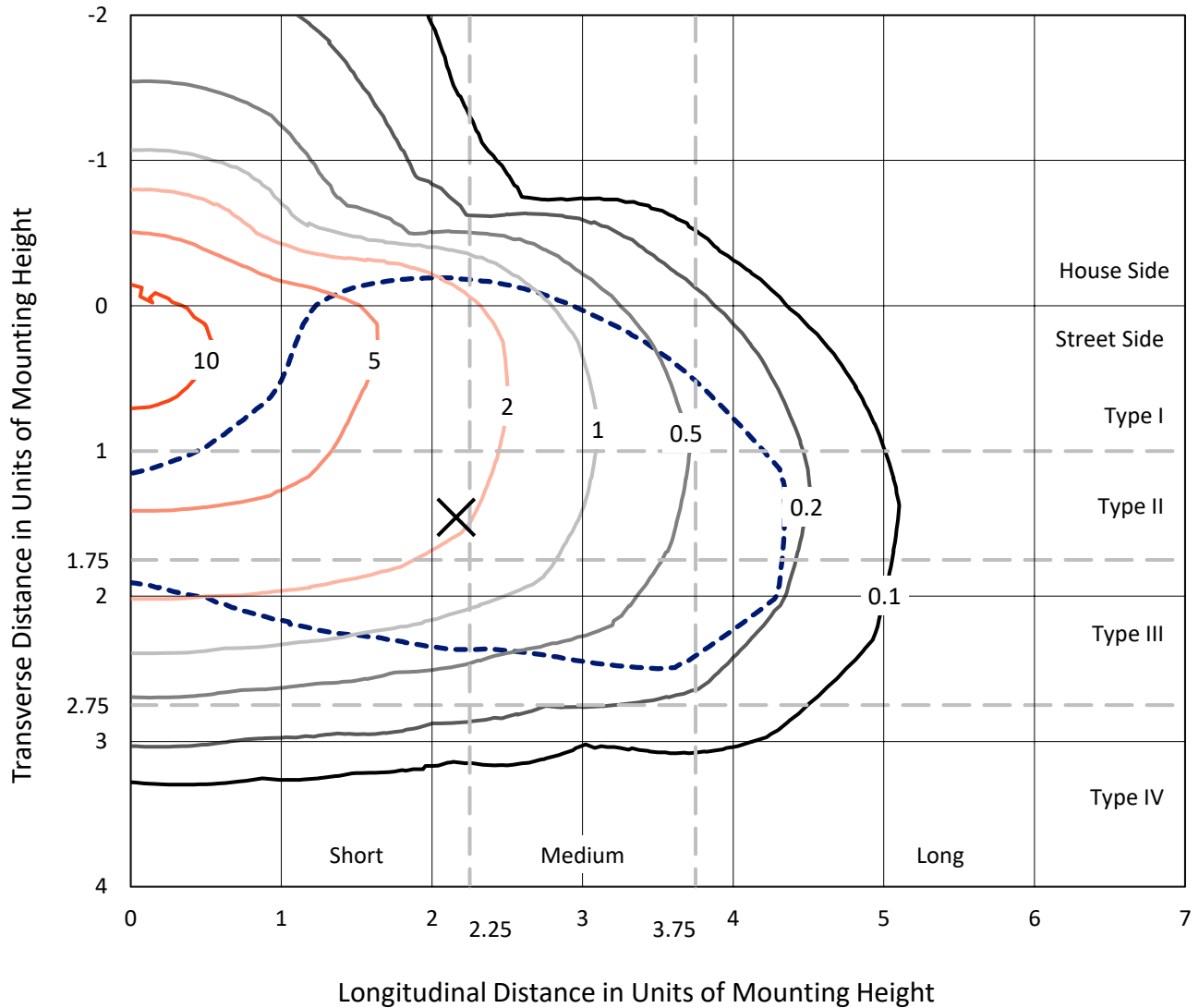
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318423
 CATALOG NUMBER: GAN-SA9D-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

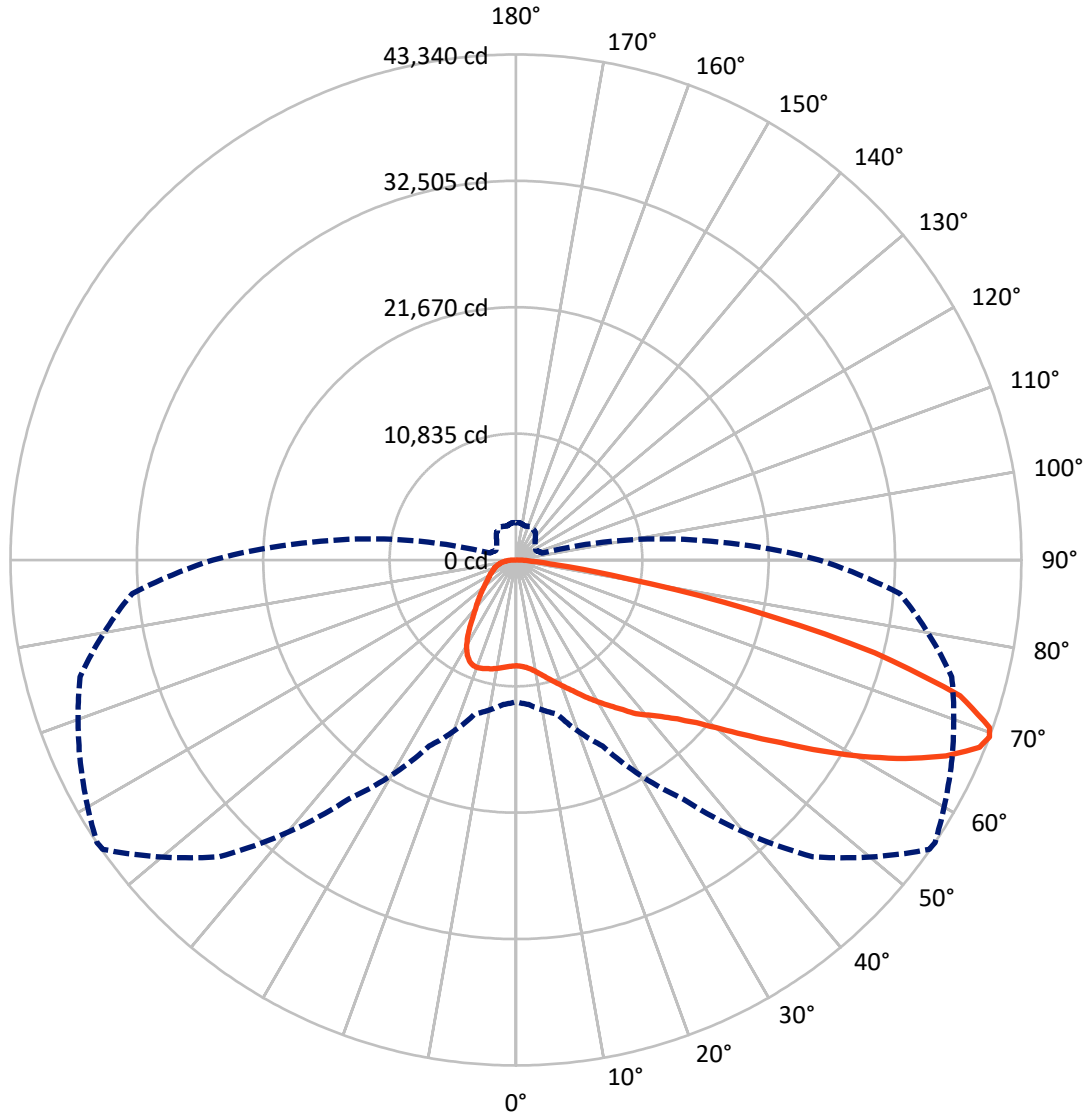
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

REPORT NUMBER: P318423
CATALOG NUMBER: GAN-SA9D-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P318423
 CATALOG NUMBER: GAN-SA9D-740-U-T3

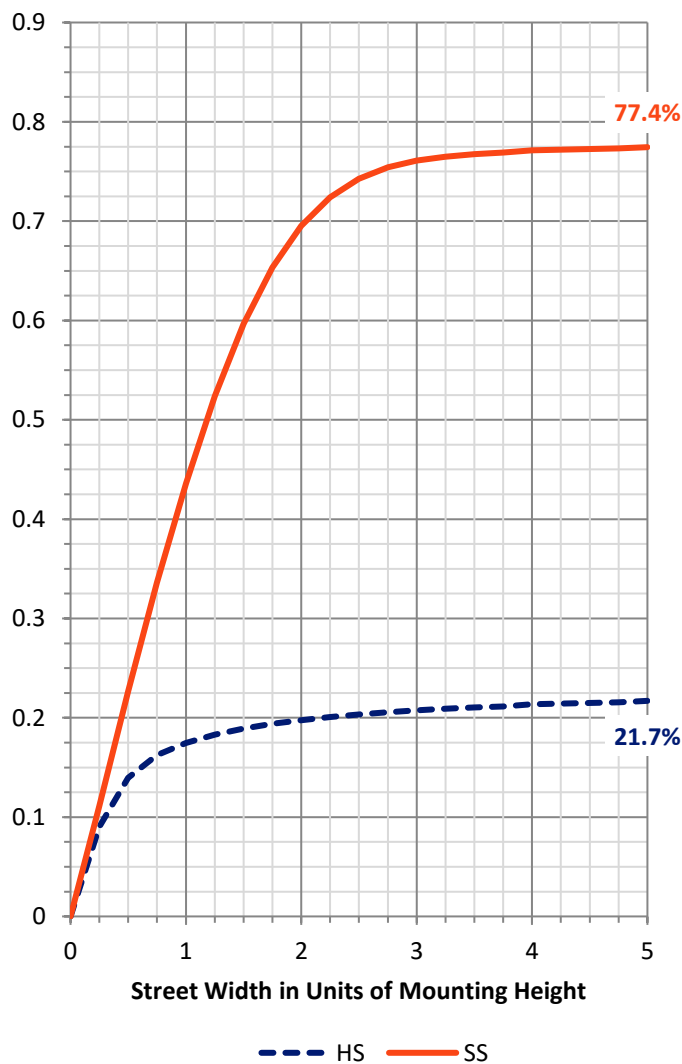
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15451.0	0.0	15451.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	53930.0	0.0	53930.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	69381.0	0.0	69381.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.9	1.3
10°-20°	2864.7	4.1
20°-30°	5000.6	7.2
30°-40°	7183.2	10.4
40°-50°	9941.2	14.3
50°-60°	14565.2	21.0
60°-70°	17757.8	25.6
70°-80°	9817.6	14.2
80°-90°	1359.7	2.0
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°	69381.0	100.0
0°-180°	69381.0	100.0



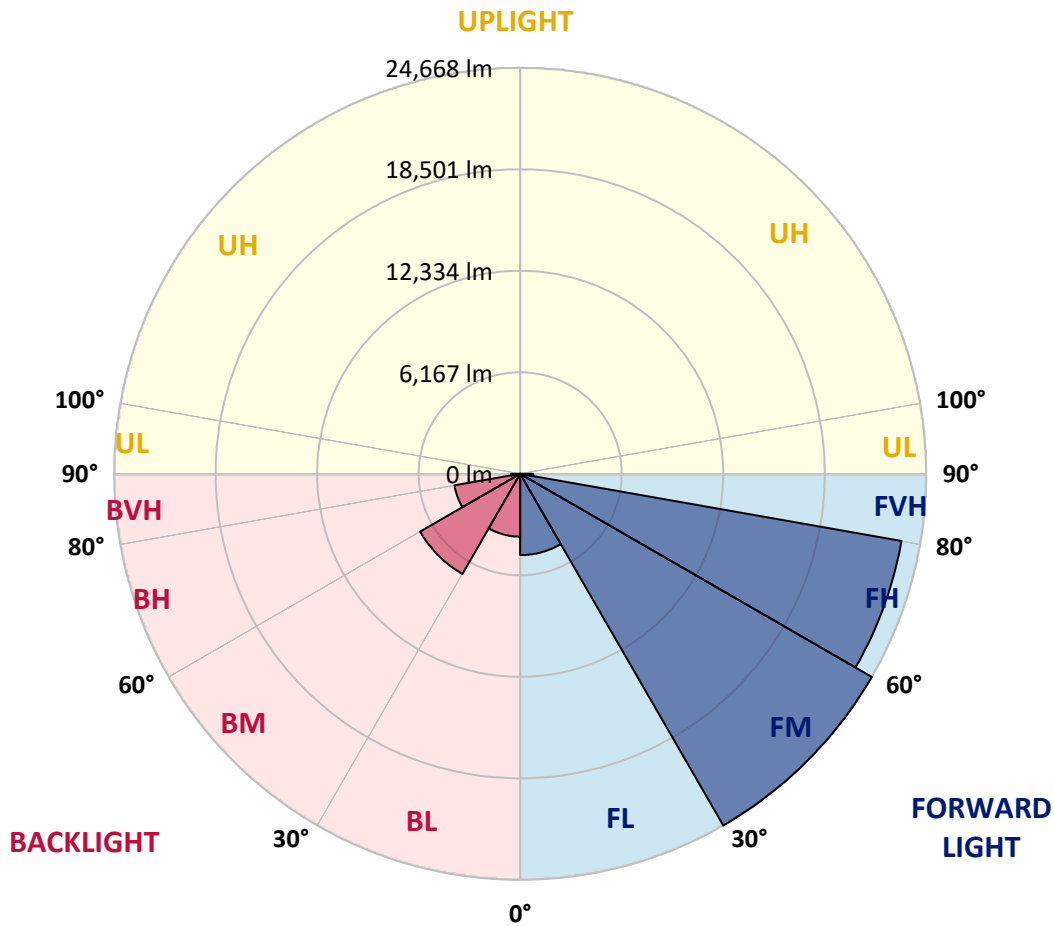
REPORT NUMBER: P318423
 CATALOG NUMBER: GAN-SA9D-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4937.9	7.1			
FM (30°-60°)	24667.5	35.6			
FH (60°-80°)	23523.6	33.9			G5
FVH (80°-90°)	800.9	1.2			G5
BL (0°-30°)	3818.3	5.5	B4/5000		
BM (30°-60°)	7022.2	10.1	B4/8500		
BH (60°-80°)	4051.8	5.8	B4/5000		G4/5000
BVH (80°-90°)	558.8	0.8			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P318423

CATALOG NUMBER: GAN-SA9D-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5
2.5°	9127.9	9137.4	9130.3	9149.4	9127.9	9142.2	9130.3	9130.3	9123.1	9101.6	9077.7
5°	9271.3	9290.4	9278.5	9297.6	9271.3	9276.1	9254.6	9254.6	9233.0	9187.6	9139.8
7.5°	9496.0	9517.5	9507.9	9527.0	9491.2	9491.2	9462.5	9460.1	9417.1	9343.0	9288.0
10°	9763.7	9792.3	9782.8	9811.5	9782.8	9792.3	9763.7	9763.7	9706.3	9601.1	9531.8
12.5°	10153.2	10189.1	10162.8	10160.4	10148.5	10167.6	10143.7	10138.9	10086.3	9942.9	9847.3
15°	10674.3	10712.5	10657.6	10652.8	10585.9	10578.7	10578.7	10571.5	10538.1	10366.0	10208.2
17.5°	11274.2	11286.2	11238.4	11161.9	11075.8	11020.9	11013.7	11032.8	11032.8	10832.0	10581.1
20°	11862.2	11883.7	11845.5	11759.4	11649.5	11568.2	11510.8	11549.1	11546.7	11307.7	10951.5
22.5°	12502.7	12552.9	12495.6	12385.6	12256.6	12165.7	12065.3	12098.8	12101.2	11807.2	11314.8
25°	13332.1	13286.7	13250.8	13095.5	12911.5	12818.2	12725.0	12758.5	12748.9	12345.0	11690.1
27.5°	14065.9	14075.4	14027.6	13862.7	13650.0	13444.4	13439.7	13461.2	13425.3	12904.3	12043.8
30°	14919.2	14923.9	14857.0	14708.8	14477.0	14211.7	14149.5	14185.4	14108.9	13434.9	12416.7
32.5°	15767.6	15791.6	15717.5	15538.2	15351.8	15029.1	14904.8	14928.7	14737.5	13977.4	12801.5
35°	16511.0	16544.4	16520.5	16401.0	16197.9	15920.6	15772.4	15758.1	15521.5	14641.9	13310.6
37.5°	17268.6	17299.7	17273.4	17173.0	17091.8	16797.8	16718.9	16718.9	16307.8	15320.7	13958.3
40°	18047.8	18095.6	18064.6	17925.9	17856.6	17722.8	17534.0	17488.5	17044.0	16135.7	15014.8
42.5°	18772.0	18834.2	18958.5	18877.2	18736.2	18755.3	18375.3	18351.4	18026.3	17340.4	16341.3
45°	19799.8	19890.6	20100.9	20038.8	20010.1	19905.0	19453.2	19431.7	19307.4	18960.9	17988.1
47.5°	20920.8	21045.0	21425.1	21437.0	21745.4	21547.0	20932.7	20858.6	20887.3	20901.6	19998.2
50°	21953.3	22089.5	22713.4	23007.3	23733.9	23777.0	22794.6	22727.7	22840.0	23169.9	22340.5
52.5°	22777.9	22950.0	23729.2	24637.4	25882.7	26236.4	25086.7	25036.6	25120.2	25689.1	24988.7
55°	23382.6	23569.0	24417.5	26071.5	28060.1	28683.9	27725.4	27677.6	27730.2	28454.4	27868.8
57.5°	23523.6	23569.0	24799.9	27037.1	29898.1	31396.7	30954.5	30858.9	30600.8	31231.8	31047.7
60°	22861.5	23043.2	24484.4	27376.5	31320.2	34071.2	34329.4	34209.8	33485.6	34001.9	33853.7
62.5°	21518.3	21843.3	23306.1	26860.2	31877.1	36255.8	37639.7	37496.3	36248.6	36583.2	35871.0
65°	19324.2	19462.8	20999.6	25079.6	31169.6	37654.0	40591.5	40519.8	38949.5	38426.0	36243.8
67.5°	15399.6	15660.1	16965.1	21358.1	28275.2	37489.1	42874.0	42866.9	40713.4	39109.6	34922.1
69°	12165.7	12435.8	13678.7	17593.7	25019.8	35980.9	43256.5	43340.1	41210.5	38693.7	33033.9
70°	9699.1	10012.2	10865.5	14818.8	22130.2	33992.3	42938.6	43089.2	41114.9	38007.8	31291.5
72.5°	4127.7	4381.1	4988.2	7638.8	13487.5	25383.1	39260.2	39829.0	38899.3	34785.9	25861.1
75°	1802.2	1881.0	2155.9	3114.3	5987.3	13814.9	30756.1	31807.8	33261.0	29403.3	19264.4
77.5°	1319.3	1352.8	1503.4	1828.4	2686.5	5217.6	19778.3	20390.1	23987.3	21396.4	11816.8
80°	1020.6	1044.5	1161.6	1343.2	1754.4	2110.5	9020.3	9546.2	13487.5	10989.8	4921.3
82.5°	812.6	829.4	910.6	989.5	1211.8	1278.7	2994.8	3322.3	4978.6	3035.5	1302.6
85°	755.3	774.4	803.1	721.8	776.8	750.5	1295.4	1355.2	1503.4	1192.7	544.9
87.5°	341.8	403.9	795.9	561.7	413.5	329.8	530.6	554.5	623.8	626.2	241.4
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: P318423

CATALOG NUMBER: GAN-SA9D-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5	9070.5
2.5°	9092.0	9084.9	9096.8	9068.1	9104.0	9101.6	9089.6	9094.4	9118.3	9115.9	9118.3
5°	9147.0	9142.2	9156.6	9135.1	9178.1	9192.4	9194.8	9216.3	9242.6	9249.8	9249.8
7.5°	9285.6	9285.6	9292.8	9264.1	9292.8	9290.4	9278.5	9300.0	9326.3	9328.7	9326.3
10°	9524.6	9527.0	9515.1	9441.0	9417.1	9352.6	9292.8	9295.2	9328.7	9354.9	9362.1
12.5°	9825.8	9816.2	9763.7	9627.4	9527.0	9395.6	9333.4	9331.0	9364.5	9386.0	9393.2
15°	10170.0	10143.7	10007.5	9785.2	9608.3	9479.2	9378.8	9354.9	9335.8	9311.9	9314.3
17.5°	10495.0	10435.3	10208.2	9899.9	9713.5	9541.4	9347.8	9192.4	9084.9	9022.7	9003.6
20°	10824.9	10707.8	10380.3	10007.5	9770.8	9457.7	9084.9	8769.4	8573.4	8482.6	8465.8
22.5°	11126.0	10937.2	10540.4	10119.8	9725.4	9175.7	8590.1	8131.2	7858.7	7736.8	7746.4
25°	11420.0	11157.1	10707.8	10198.7	9496.0	8678.5	7901.8	7337.7	7022.2	6885.9	6881.2
27.5°	11678.1	11379.4	10889.4	10134.1	9068.1	7971.1	7086.7	6537.0	6274.1	6157.0	6137.8
30°	11974.5	11659.0	11130.8	9887.9	8441.9	7153.6	6290.8	5903.6	5717.2	5600.1	5578.5
32.5°	12335.4	12039.1	11329.2	9441.0	7641.2	6300.4	5669.4	5399.3	5229.6	5098.1	5074.2
35°	12861.3	12541.0	11379.4	8800.4	6761.7	5626.4	5212.9	4935.6	4706.2	4536.5	4519.7
37.5°	13520.9	13169.6	11264.7	7971.1	5908.4	5189.0	4832.8	4491.0	4192.3	3953.3	3915.0
40°	14472.2	13941.6	10946.8	7015.0	5279.8	4852.0	4462.4	4072.8	3702.3	3422.7	3367.7
42.5°	15614.7	14847.5	10459.2	6063.7	4818.5	4510.2	4094.3	3611.5	3257.7	3059.4	3030.7
45°	17067.9	15789.2	9782.8	5232.0	4364.4	4168.4	3697.5	3253.0	3033.1	2887.3	2863.4
47.5°	18726.6	16845.6	9072.9	4555.6	3979.6	3848.1	3379.6	3092.8	2918.3	2803.6	2782.1
50°	20765.4	18038.3	8320.0	4001.1	3592.4	3463.3	3229.1	3004.4	2865.8	2777.3	2755.8
52.5°	23064.7	19383.9	7777.5	3563.7	3272.1	3178.9	3150.2	2956.6	2844.2	2777.3	2755.8
55°	25540.9	20753.4	7191.9	3195.6	2994.8	3021.1	3097.6	2961.4	2884.9	2803.6	2772.5
57.5°	28019.4	22168.4	6539.4	2884.9	2774.9	2904.0	3061.7	2970.9	2906.4	2827.5	2798.8
60°	29979.3	23064.7	5528.4	2624.4	2600.5	2774.9	2975.7	2899.2	2815.6	2818.0	2813.2
62.5°	30894.7	23016.9	4412.2	2392.5	2426.0	2600.5	2837.1	2786.9	2717.6	2810.8	2818.0
65°	30380.9	21869.6	3434.6	2182.2	2239.5	2418.8	2693.7	2731.9	2755.8	2935.1	2959.0
67.5°	28225.0	19637.3	2660.2	1998.1	2069.8	2294.5	2708.0	2975.7	3006.8	3195.6	3193.2
69°	25995.0	17543.5	2311.3	1902.5	1986.2	2325.6	2894.4	3131.1	3013.9	3214.7	3186.0
70°	24125.9	15887.2	2124.8	1838.0	1948.0	2380.6	3018.7	3128.7	2978.1	3150.2	3102.4
72.5°	18580.8	11429.6	1802.2	1718.5	1818.9	2277.8	3054.6	3059.4	2894.4	2927.9	2846.6
75°	12744.1	7223.0	1572.7	1556.0	1622.9	2053.1	2939.9	2923.1	2676.9	2629.1	2562.2
77.5°	7027.0	3668.8	1336.1	1400.6	1446.0	1818.9	2672.2	2648.3	2445.1	2344.7	2320.8
80°	2710.4	1606.2	1128.1	1245.3	1273.9	1575.1	2342.3	2320.8	2151.1	2022.0	1986.2
82.5°	1023.0	841.3	932.1	1077.9	1068.4	1300.2	1983.8	1971.9	1806.9	1618.1	1560.8
85°	473.2	504.3	738.5	889.1	819.8	963.2	1587.0	1608.6	1407.8	1183.1	1183.1
87.5°	200.8	282.0	523.4	671.6	552.1	650.1	1164.0	1111.4	1020.6	707.5	664.5
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)