

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: P317463

Luminaire Tested: **GAN-SA9D-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72266 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

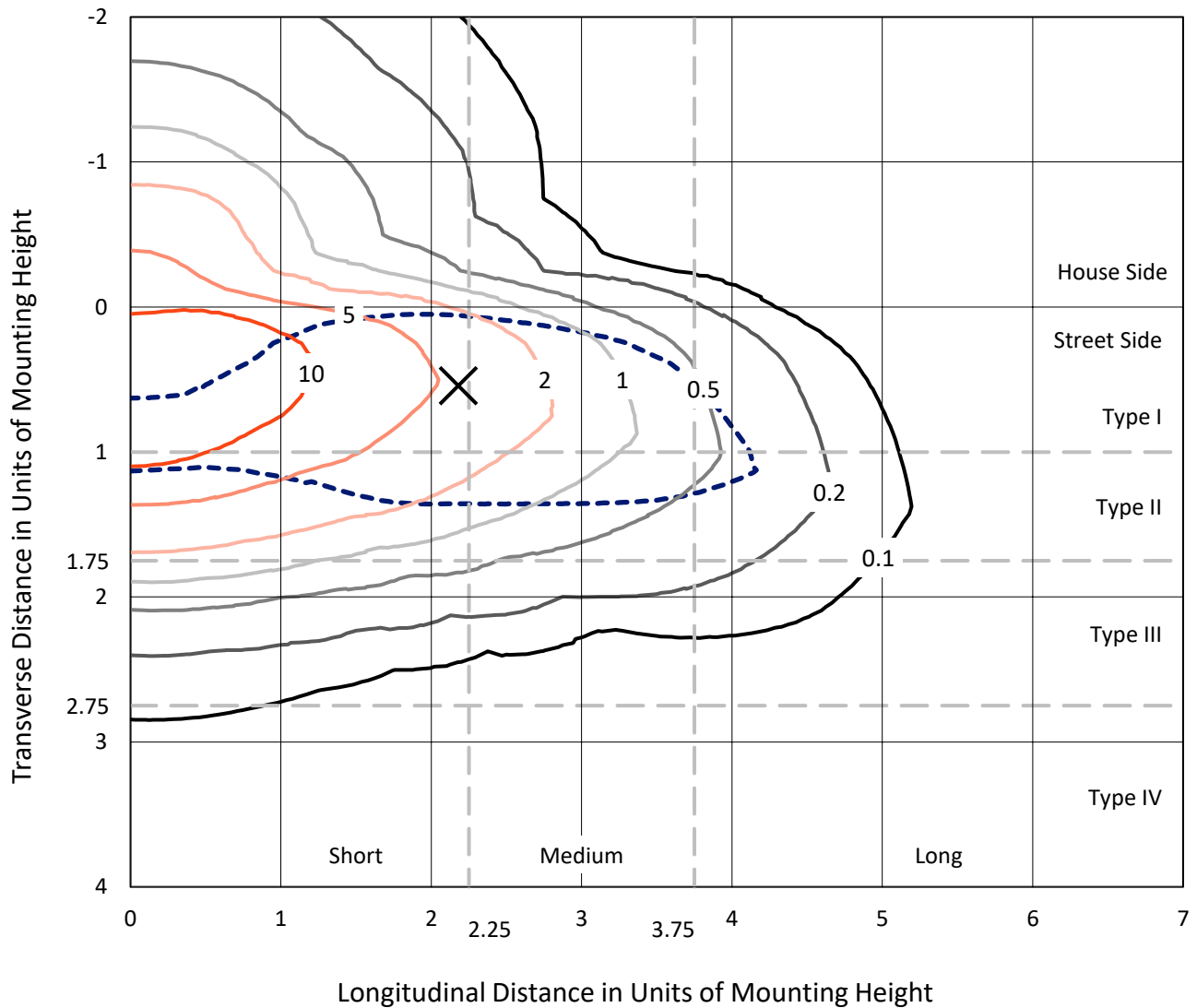
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317463
 CATALOG NUMBER: GAN-SA9D-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

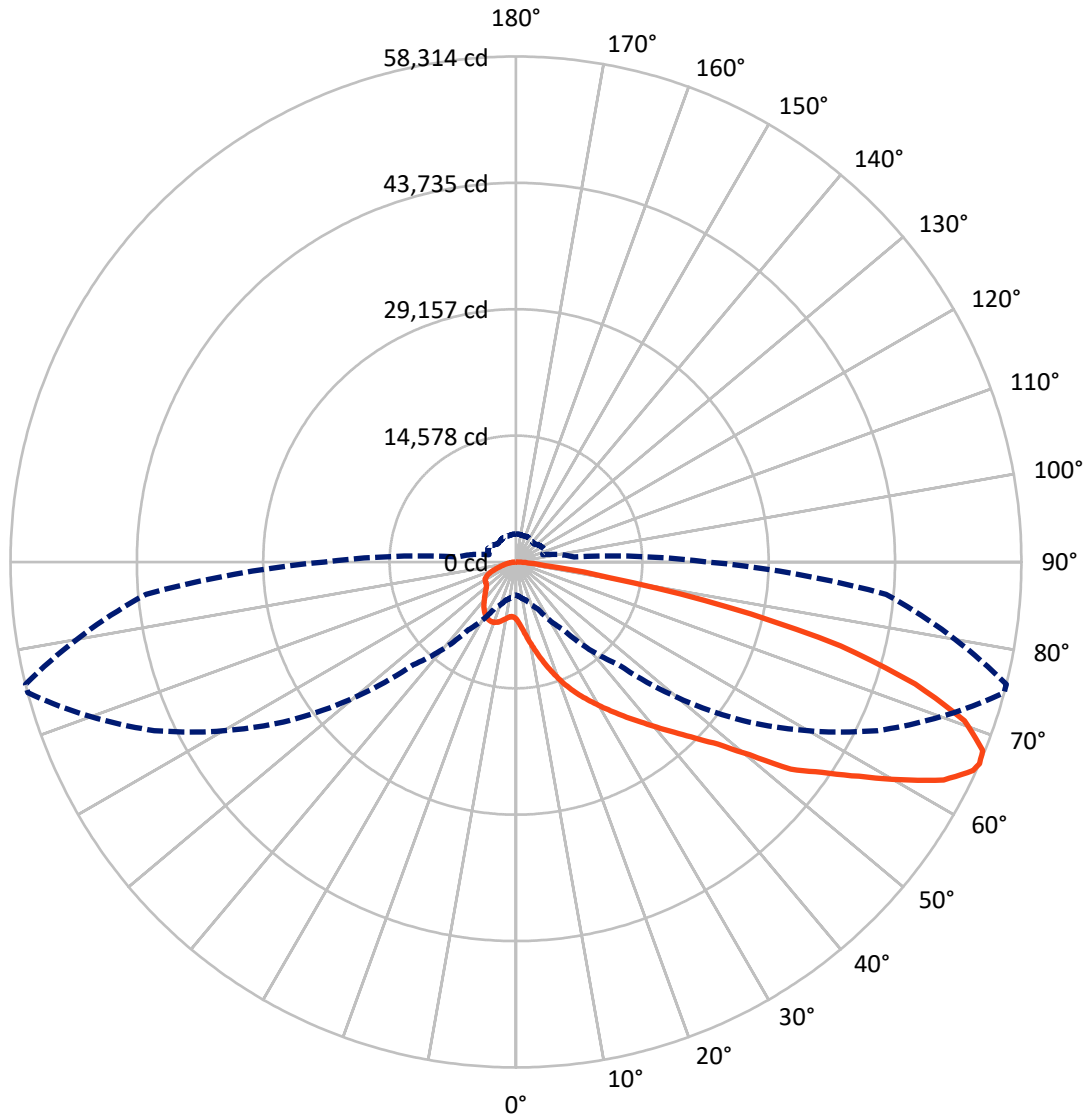
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

REPORT NUMBER: P317463
CATALOG NUMBER: GAN-SA9D-740-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P317463

CATALOG NUMBER: GAN-SA9D-740-U-T2R

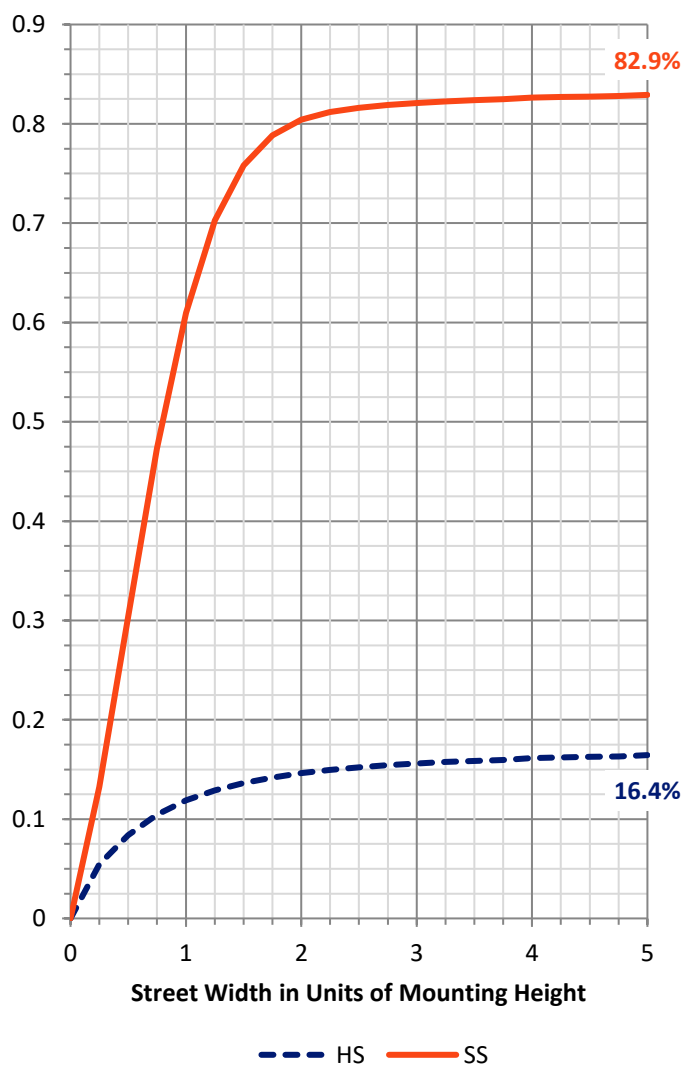
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12159.9	0.0	12159.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	60106.1	0.0	60106.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	72266.0	0.0	72266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	1.1
10°-20°	3151.5	4.4
20°-30°	6124.1	8.5
30°-40°	9995.9	13.8
40°-50°	13656.8	18.9
50°-60°	15907.4	22.0
60°-70°	14261.3	19.7
70°-80°	7207.1	10.0
80°-90°	1163.8	1.6
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°	72266.0	100.0
0°-180°	72266.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317463

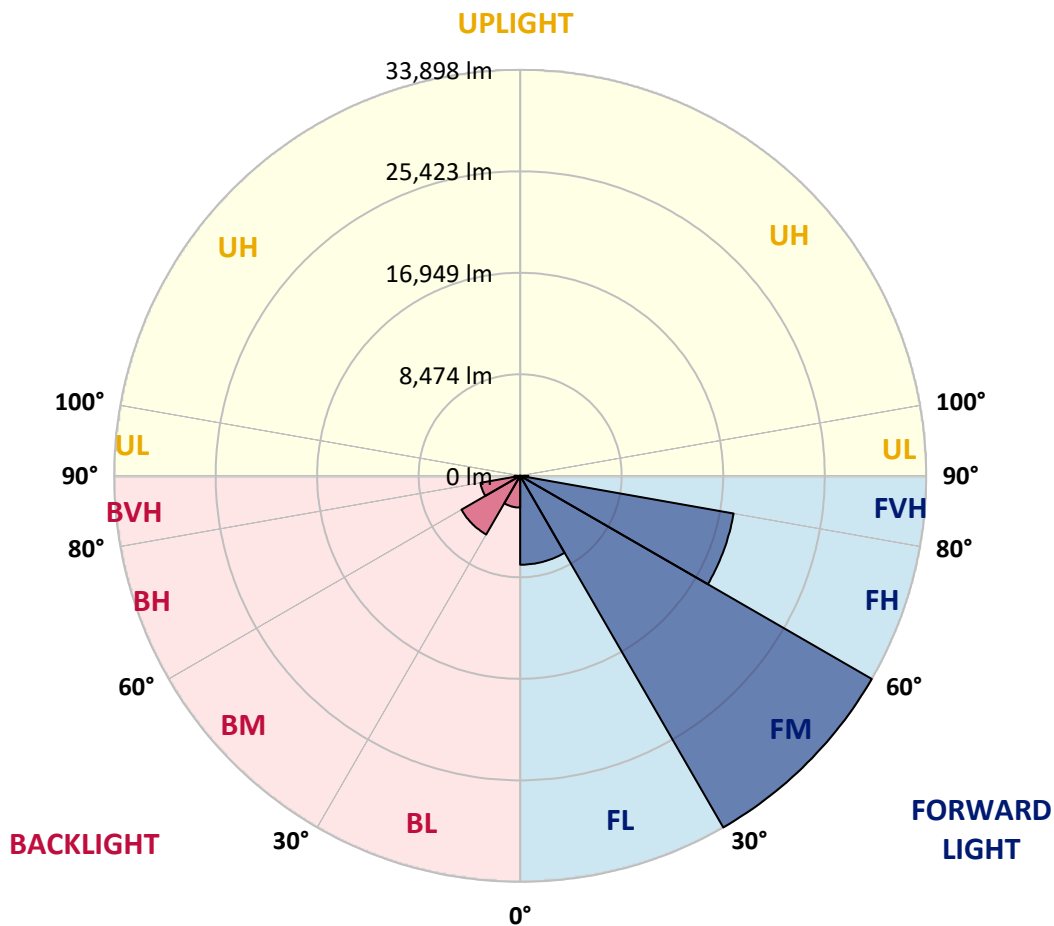
CATALOG NUMBER: GAN-SA9D-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7421.5	10.3			
FM (30°-60°)	33897.8	46.9			
FH (60°-80°)	18099.5	25.0			G5
FVH (80°-90°)	687.3	1.0			G4/750
BL (0°-30°)	2652.1	3.7	B4/5000		
BM (30°-60°)	5662.4	7.8	B4/8500		
BH (60°-80°)	3368.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	476.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P317463

CATALOG NUMBER: GAN-SA9D-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5
2.5°	8760.9	8628.4	8616.2	8422.4	8378.2	8007.7	7735.4	7450.8	7127.0	7063.2	6808.1
5°	11253.5	11241.3	11072.0	10755.5	10507.7	9874.7	9249.1	8586.7	7860.5	7742.8	7168.7
7.5°	13495.9	13476.3	13346.2	13005.2	12647.0	11869.3	10976.3	9960.6	8783.0	8608.8	7656.9
10°	15198.5	15191.2	15147.0	14896.8	14592.5	13846.7	12860.5	11474.3	9855.1	9617.1	8267.8
12.5°	16513.5	16528.2	16557.7	16469.3	16324.6	15689.2	14678.4	13078.8	10998.4	10762.9	8947.4
15°	17404.1	17448.2	17600.3	17725.5	17801.5	17411.4	16432.5	14720.1	12279.0	11996.9	9700.6
17.5°	17853.0	17902.1	18164.6	18542.4	18890.8	18851.6	18073.8	16285.3	13508.2	13235.8	10510.2
20°	18240.7	18277.5	18571.9	19025.7	19641.5	19913.9	19477.2	17791.7	14855.0	14531.2	11368.8
22.5°	19364.3	19410.9	19499.2	19756.8	20301.5	20802.0	20591.0	19217.1	16089.1	15787.3	12183.3
25°	21533.1	21589.5	21398.1	21179.8	21282.8	21631.2	21670.5	20517.4	17340.3	16999.3	13059.2
27.5°	24145.9	24226.8	23900.6	23338.7	22848.1	22713.1	22666.5	21582.1	18535.1	18140.1	13925.2
30°	26704.7	26844.6	26420.1	25691.5	24791.1	24158.2	23689.6	22624.8	19712.7	19334.9	14742.2
32.5°	29204.7	29148.3	28532.5	27821.0	26766.1	25973.6	24840.2	23743.5	21037.5	20603.2	15554.2
35°	30917.1	30936.8	30365.1	29521.2	28515.3	27906.9	26380.9	24950.6	22389.3	21989.4	16476.7
37.5°	32374.4	32283.7	31636.0	30848.4	29982.4	29722.4	28184.1	26280.3	23853.9	23417.2	17458.0
40°	32860.2	32754.7	32330.3	31763.5	31069.2	31047.2	30173.8	27786.7	25509.9	25078.2	18564.5
42.5°	32565.8	32430.9	32256.7	32102.1	31888.7	31986.8	32043.2	29553.1	27330.3	26847.0	19845.2
45°	31479.0	31275.3	31398.0	31734.1	32197.8	32752.2	33731.1	31508.4	29369.1	28964.3	21349.1
47.5°	29808.2	29624.2	30006.9	30725.8	31986.8	33390.1	35328.3	33667.3	31802.8	31400.4	23490.8
50°	27457.9	27511.9	28059.0	29366.6	31272.9	33684.5	37295.9	36525.5	35340.5	34965.2	26412.8
52.5°	23601.2	23611.1	25151.8	27298.4	30006.9	33532.4	38387.6	40178.5	40171.2	39717.3	29194.9
55°	20019.3	20237.7	21457.0	24310.3	27955.9	32924.0	39150.6	41954.8	43343.4	42811.0	31788.1
57.5°	16520.9	16648.4	17804.0	20669.5	25029.1	31302.3	39933.2	44086.7	46998.9	46662.7	35011.8
60°	12541.5	12737.8	13932.6	16579.7	21285.3	28424.5	40006.8	46311.9	51368.3	51029.7	38610.8
62.5°	8140.2	8478.8	9597.5	12077.8	16756.4	24285.7	38299.3	47766.8	55509.5	55389.3	41805.1
65°	4678.5	4933.7	5711.4	7625.0	11560.2	19089.5	34239.0	47207.4	58058.6	57989.9	42999.9
66°	3822.3	3981.8	4578.0	5959.2	9538.6	16763.8	31878.9	46027.3	58311.3	58313.7	42862.5
67.5°	3056.9	3128.0	3395.4	4266.4	7038.7	13287.4	27661.5	43424.3	57997.2	58083.1	41976.8
70°	2529.4	2566.2	2649.6	2860.6	3841.9	8012.6	19634.2	36660.4	54844.7	54910.9	38520.1
72.5°	2269.4	2291.4	2323.3	2352.8	2711.0	4477.4	11992.0	29327.4	48085.7	48171.6	33252.7
75°	2055.9	2068.2	2063.3	2065.7	2274.3	2853.2	6197.2	21896.2	38880.7	38709.0	25473.1
77.5°	1805.7	1817.9	1793.4	1798.3	2011.7	2193.3	3083.9	15328.5	26238.6	25026.6	14352.1
80°	1526.0	1535.8	1526.0	1543.2	1751.7	1656.0	1793.4	8623.5	11601.9	10973.8	5103.0
82.5°	1153.1	1194.8	1224.2	1292.9	1442.6	1177.6	1199.7	3358.6	3532.8	3363.5	1565.2
85°	505.4	615.8	922.5	988.7	1084.4	706.6	787.5	1369.0	1437.7	1393.5	569.2
87.5°	132.5	144.7	456.3	574.1	601.1	318.9	409.7	623.2	657.5	623.2	188.9
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: P317463

CATALOG NUMBER: GAN-SA9D-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5	6599.5
2.5°	6673.1	6552.9	6337.0	6145.6	6000.9	5902.8	5804.6	5755.6	5726.1	5696.7	5701.6
5°	6886.6	6643.7	6273.2	6010.7	5863.5	5770.3	5721.2	5701.6	5689.3	5659.9	5659.9
7.5°	7207.9	6864.5	6354.2	6084.3	5969.0	5897.9	5868.4	5858.6	5843.9	5809.5	5814.4
10°	7612.7	7131.9	6523.5	6261.0	6155.5	6077.0	6035.2	6020.5	5993.5	5954.3	5959.2
12.5°	8088.7	7463.1	6746.7	6471.9	6344.4	6238.9	6170.2	6128.5	6081.9	6030.3	6032.8
15°	8608.8	7823.7	6987.1	6660.8	6486.7	6339.5	6229.1	6157.9	6084.3	6020.5	6018.1
17.5°	9136.3	8172.1	7171.1	6763.9	6528.4	6334.6	6184.9	6074.5	5983.7	5905.2	5897.9
20°	9705.5	8486.1	7274.2	6754.1	6449.9	6219.2	6020.5	5883.1	5782.5	5704.0	5691.8
22.5°	10284.4	8780.5	7291.4	6653.5	6275.7	5993.5	5785.0	5632.9	5529.9	5448.9	5419.5
25°	10814.4	9008.7	7220.2	6459.7	6032.8	5728.6	5524.9	5370.4	5287.0	5191.3	5161.9
27.5°	11297.7	9168.2	7077.9	6211.9	5760.5	5461.2	5269.8	5137.3	5046.5	4972.9	4948.4
30°	11731.9	9254.0	6844.9	5917.5	5480.8	5208.5	5046.5	4955.8	4877.3	4784.0	4766.9
32.5°	12144.1	9254.0	6545.5	5596.1	5203.6	4985.2	4889.5	4833.1	4744.8	4654.0	4629.5
35°	12556.3	9197.6	6192.3	5260.0	4948.4	4825.7	4820.8	4754.6	4619.7	4497.0	4465.1
37.5°	12990.5	9082.3	5794.8	4946.0	4739.9	4754.6	4796.3	4649.1	4457.7	4283.6	4236.9
40°	13481.2	8922.8	5382.7	4673.6	4565.7	4722.7	4730.1	4497.0	4124.1	3964.6	3922.9
42.5°	14057.7	8763.4	4999.9	4433.2	4428.3	4627.0	4604.9	4168.2	3945.0	3864.0	3841.9
45°	14815.8	8672.6	4636.8	4205.0	4320.4	4472.5	4391.5	3986.7	3893.5	3846.9	3827.2
47.5°	16010.6	8719.2	4303.2	4023.5	4212.4	4317.9	3994.1	3913.1	3846.9	3790.4	3770.8
50°	17507.1	8692.2	4033.3	3898.4	4089.7	4156.0	3815.0	3817.4	3783.1	3719.3	3689.8
52.5°	18633.2	8481.2	3859.1	3827.2	3981.8	3868.9	3702.1	3724.2	3707.0	3613.8	3581.9
55°	19720.0	8299.7	3770.8	3800.2	3903.3	3510.7	3569.6	3623.6	3606.4	3515.7	3500.9
57.5°	21071.8	8265.3	3716.8	3807.6	3837.0	3331.7	3442.1	3513.2	3500.9	3461.7	3454.3
60°	22727.8	8275.2	3667.8	3819.9	3763.4	3199.2	3321.8	3412.6	3420.0	3412.6	3407.7
62.5°	23638.0	8007.7	3545.1	3785.5	3633.4	3083.9	3196.7	3329.2	3331.7	3346.4	3343.9
65°	22865.2	7207.9	3316.9	3665.3	3415.1	2988.2	3088.8	3233.5	3196.7	3263.0	3263.0
66°	22114.5	6746.7	3204.1	3586.8	3321.8	2951.4	3054.4	3184.5	3137.8	3228.6	3228.6
67.5°	20581.2	5969.0	3000.4	3420.0	3189.4	2899.9	3015.2	3103.5	3039.7	3174.6	3164.8
70°	17779.4	4617.2	2590.7	3042.2	2971.0	2823.8	2961.2	2941.6	2848.3	3054.4	3015.2
72.5°	14990.0	3508.3	2080.4	2546.6	2639.8	2728.1	2885.1	2735.5	2617.7	2762.5	2676.6
75°	11631.3	2637.4	1643.7	1979.9	2230.1	2578.5	2794.4	2497.5	2328.2	2313.5	2266.9
77.5°	6287.9	1810.6	1302.7	1511.3	1771.3	2392.0	2733.0	2242.4	1987.2	1928.3	1891.5
80°	2490.2	1177.6	947.0	1145.7	1238.9	2122.1	2585.8	1945.5	1638.8	1580.0	1523.5
82.5°	1028.0	696.8	610.9	767.9	807.2	1815.5	2320.9	1594.7	1265.9	1751.7	1859.6
85°	441.6	382.7	363.1	397.4	456.3	1273.3	1847.4	1216.9	1366.5	1219.3	969.1
87.5°	132.5	161.9	154.6	152.1	166.8	304.2	983.8	677.1	1003.4	380.3	284.6
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)