

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: P318104

Luminaire Tested: **GAN-SA0D-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75366 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

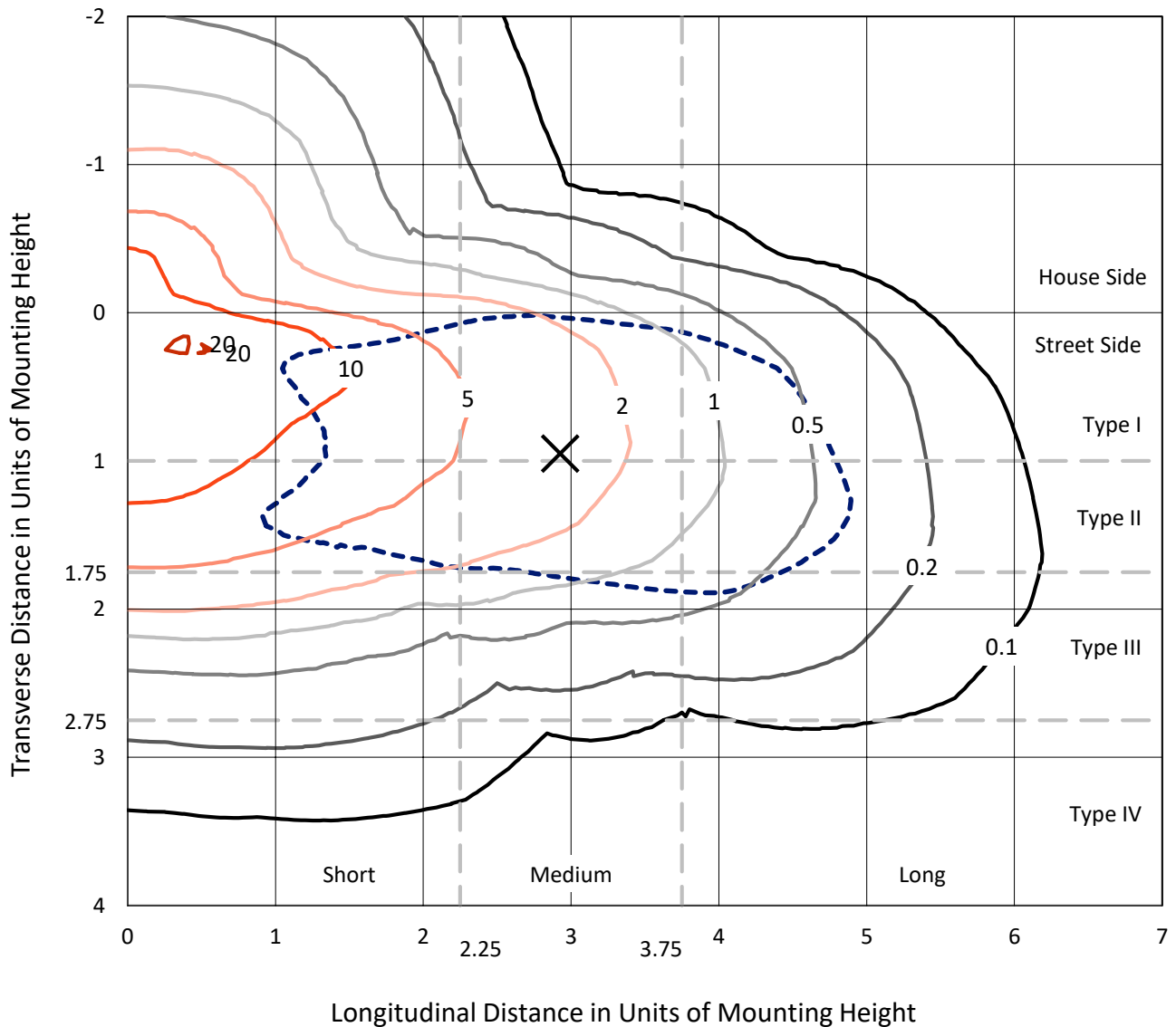
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318104
 CATALOG NUMBER: GAN-SA0D-740-U-T2

Iso-Footcandle Lines of Horizontal Illumination

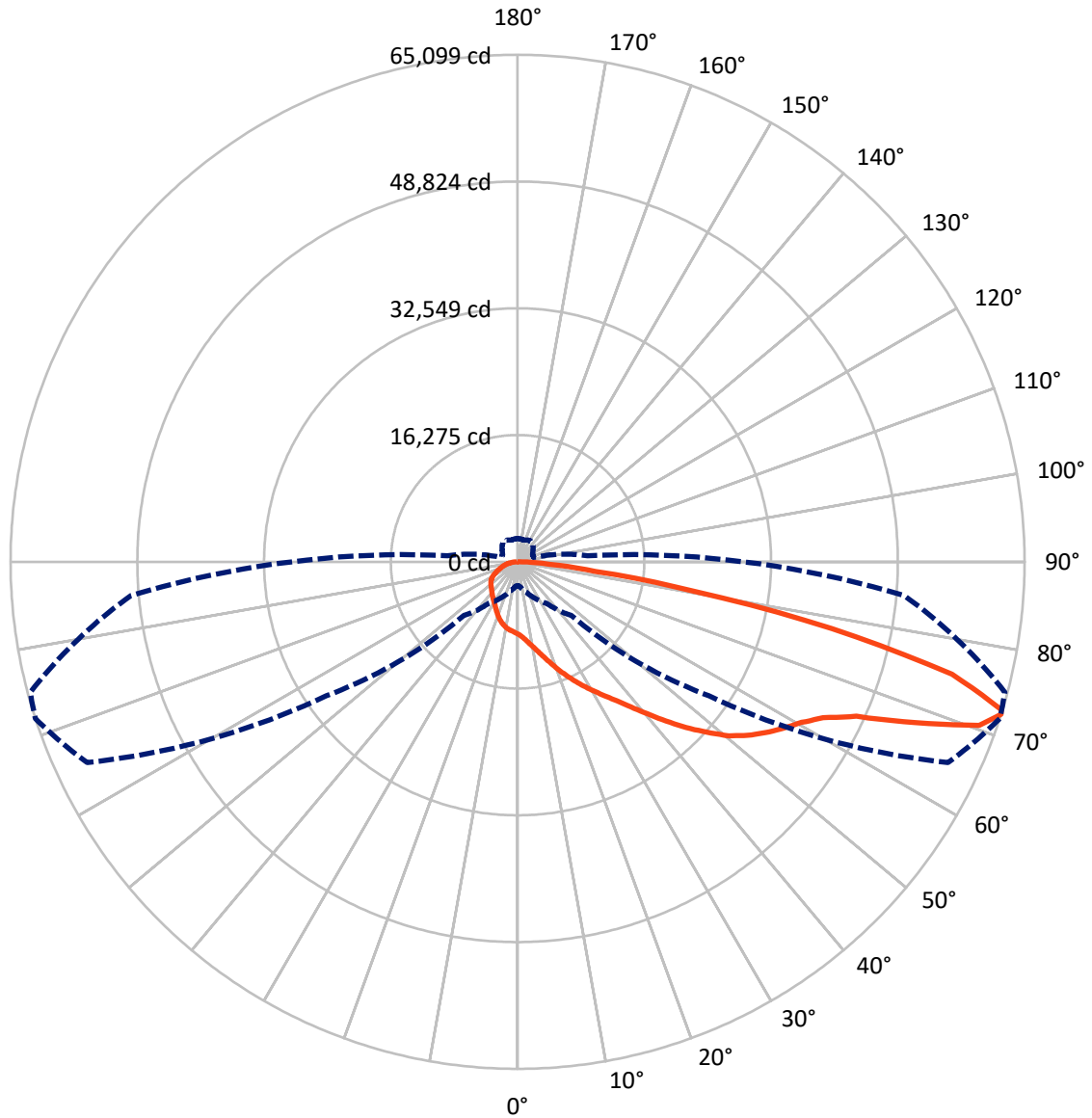
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P318104
CATALOG NUMBER: GAN-SA0D-740-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P318104
 CATALOG NUMBER: GAN-SA0D-740-U-T2

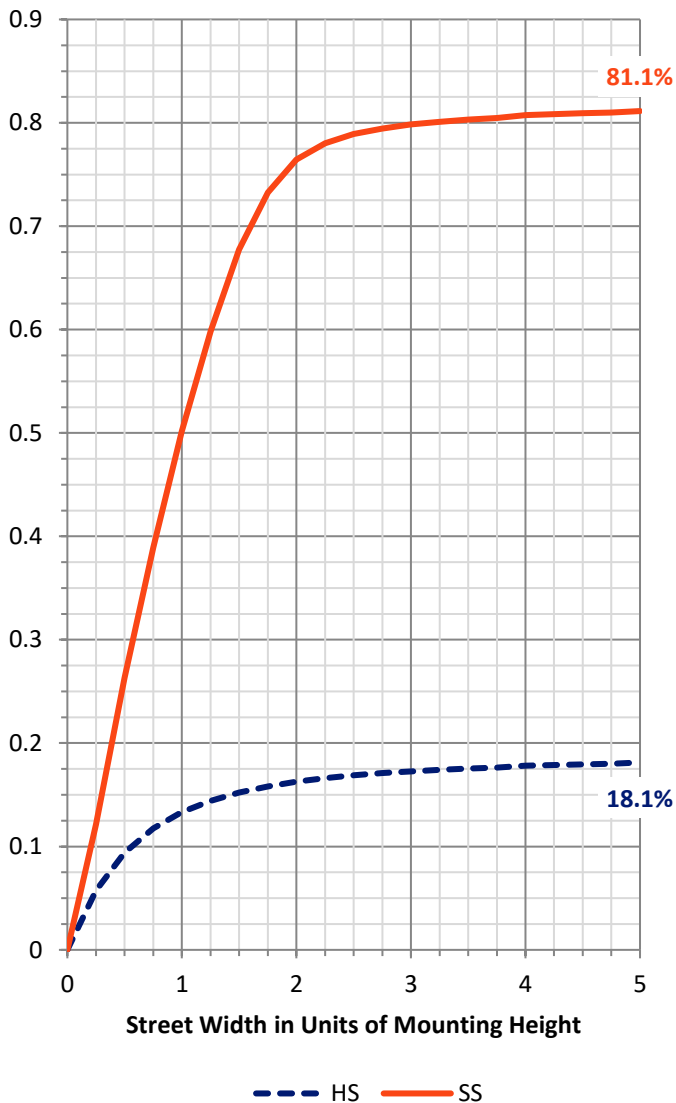
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13980.9	0.0	13980.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	61385.1	0.0	61385.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	75366.0	0.0	75366.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	929.1	1.2
10°-20°	3002.3	4.0
20°-30°	5261.0	7.0
30°-40°	7800.5	10.4
40°-50°	11408.8	15.1
50°-60°	15698.4	20.8
60°-70°	17477.0	23.2
70°-80°	11842.4	15.7
80°-90°	1946.4	2.6
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°	75366.0	100.0
0°-180°	75366.0	100.0

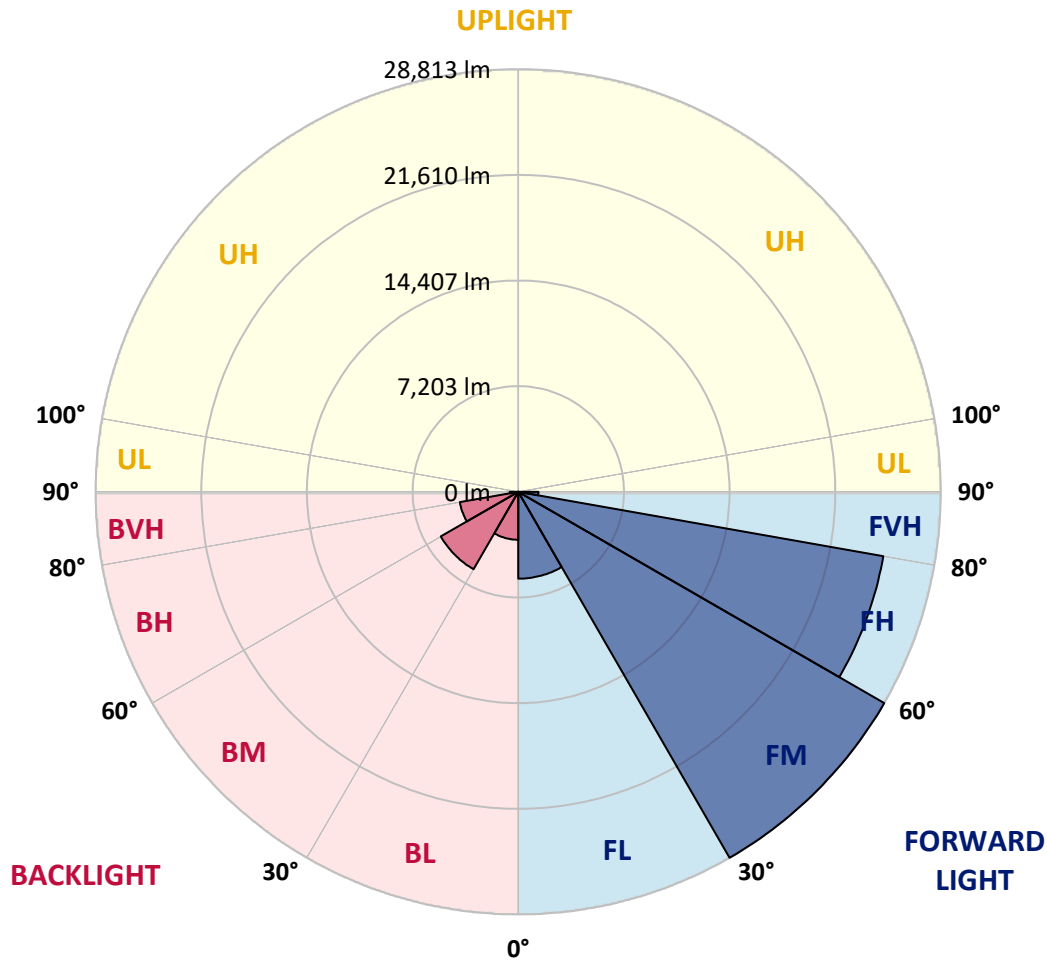


REPORT NUMBER: P318104
 CATALOG NUMBER: GAN-SA0D-740-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5924.2	7.9			
FM (30°-60°)	28813.4	38.2			
FH (60°-80°)	25274.6	33.5			G5
FVH (80°-90°)	1373.0	1.8			G5
BL (0°-30°)	3268.2	4.3	B4/5000		
BM (30°-60°)	6094.4	8.1	B4/8500		
BH (60°-80°)	4044.9	5.4	B4/5000		G4/5000
BVH (80°-90°)	573.4	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 Medium





REPORT NUMBER: P318104

CATALOG NUMBER: GAN-SAOD-740-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0
2.5°	10242.5	10226.9	10172.5	10172.5	10068.7	9980.4	9814.3	9702.8	9570.4	9523.7	9368.0
5°	11233.8	11239.0	11171.5	11124.8	10971.7	10784.9	10502.0	10245.1	9988.2	9884.4	9565.2
7.5°	12066.8	12056.4	12038.3	11999.3	11856.6	11664.6	11283.1	10901.7	10522.8	10367.1	9816.9
10°	12601.4	12624.7	12640.3	12658.5	12598.8	12461.3	12100.5	11636.0	11140.4	10927.6	10118.0
12.5°	12871.3	12912.8	12985.4	13110.0	13208.6	13193.0	12931.0	12437.9	11848.8	11581.5	10494.2
15°	13029.6	13084.1	13198.2	13421.4	13699.1	13857.4	13787.3	13341.0	12684.4	12354.9	10953.6
17.5°	13128.2	13172.3	13348.8	13647.2	14059.8	14480.2	14664.4	14290.7	13629.0	13252.7	11480.3
20°	13195.6	13229.4	13450.0	13800.3	14334.9	15004.4	15518.2	15424.8	14669.6	14181.8	12030.5
22.5°	13346.2	13374.7	13584.9	13937.8	14529.5	15393.6	16340.8	16480.9	15767.3	15214.6	12619.6
25°	13766.5	13766.5	13943.0	14189.5	14744.9	15731.0	17036.3	17656.5	16888.3	16244.8	13164.5
27.5°	14568.4	14560.6	14625.5	14711.1	15131.5	16073.5	17656.5	18694.5	18050.9	17347.7	13693.9
30°	15518.2	15570.1	15577.9	15536.3	15733.6	16501.7	18230.0	19789.6	19221.3	18463.5	14236.2
32.5°	16740.4	16774.2	16735.2	16597.7	16569.2	17108.9	18793.1	20936.6	20487.6	19628.7	14731.9
35°	18292.3	18227.4	18105.4	17825.1	17557.9	17921.2	19436.7	22083.6	21909.7	21037.8	15414.4
37.5°	19955.7	19958.3	19807.7	19172.0	18803.5	18959.2	20324.1	23383.7	23630.2	22714.2	16288.9
40°	21289.5	21359.6	21453.0	20617.4	20139.9	20355.3	21453.0	24891.4	25664.7	24701.9	17428.1
42.5°	22221.1	22301.5	22566.2	22042.0	21546.4	21946.0	22781.6	26500.3	27948.3	26995.9	18761.9
45°	23207.2	23251.3	23438.2	23212.4	22895.8	23796.3	24278.9	28166.3	30364.3	29440.4	20254.1
47.5°	24245.2	24291.9	24484.0	24333.4	24167.4	25524.6	25841.1	29736.3	32679.0	32126.3	21847.4
50°	25527.2	25558.3	25739.9	25467.5	25519.4	26827.3	27237.3	31176.5	35105.3	34539.6	23445.9
52.5°	27276.2	27284.0	27535.7	27289.2	27045.2	27782.2	28438.8	32533.7	37007.5	36740.2	25044.5
55°	28646.4	28729.4	29554.6	29502.7	29362.6	28649.0	29443.0	33826.0	38704.6	38831.8	26741.6
57.5°	27771.8	28096.2	29767.4	30945.5	32092.5	30805.4	30800.2	35281.8	40282.4	40884.4	28607.4
60°	24323.1	24764.2	27226.9	29840.1	33429.0	34557.8	33618.4	37059.4	41875.7	42918.9	30945.5
62.5°	17371.0	18097.6	21434.8	25607.6	31596.9	37043.8	39353.4	39880.2	44042.6	45275.2	33984.3
65°	8781.5	9331.7	12129.1	17155.6	25244.3	35419.3	45586.6	46056.3	47807.9	48903.0	38663.1
67.5°	5335.3	5542.9	6907.9	9541.9	15476.7	27590.2	47621.1	56350.7	55094.7	55676.0	45334.9
70°	3931.4	4084.6	4935.7	6337.0	8900.9	16190.3	41377.5	63697.2	62872.0	62807.1	50265.4
72°	3062.1	3173.7	3926.3	5120.0	6508.3	9713.1	29990.6	60985.4	65098.5	64771.5	49813.9
72.5°	2903.8	3002.4	3687.5	4818.9	6150.2	8804.9	26964.8	59155.9	64937.6	64789.7	49230.0
75°	2286.2	2356.3	2730.0	3726.4	4813.8	4995.4	14776.0	45843.5	57606.7	60001.9	44278.7
77.5°	1891.8	1902.1	2099.4	2711.8	3752.4	3531.8	7258.3	31807.1	41250.3	43884.3	31365.9
80°	1541.4	1554.4	1647.8	1902.1	2838.9	2613.2	3446.2	18289.7	23095.6	23124.2	14916.1
82.5°	1227.4	1230.0	1333.8	1390.9	2039.7	1868.4	1974.8	8586.9	10092.0	9707.9	5361.3
85°	864.1	846.0	1302.7	1141.8	1333.8	1198.9	1089.9	3399.5	4172.8	3991.1	1679.0
87.5°	288.0	298.4	578.7	739.6	778.5	679.9	485.3	1302.7	1575.2	1562.2	532.0
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: P318104
 CATALOG NUMBER: GAN-SAOD-740-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0	9272.0
2.5°	9318.7	9235.7	9113.7	8978.7	8872.4	8763.4	8682.9	8641.4	8594.7	8555.8	8602.5
5°	9417.3	9261.6	9002.1	8747.8	8561.0	8394.9	8275.5	8213.2	8156.1	8117.2	8122.4
7.5°	9578.2	9326.5	8890.5	8519.4	8259.9	8080.9	7958.9	7917.4	7881.1	7870.7	7883.7
10°	9749.5	9378.4	8742.6	8249.5	7953.7	7805.8	7751.3	7779.9	7805.8	7829.2	7855.1
12.5°	9944.1	9425.1	8527.2	7933.0	7681.2	7624.2	7678.6	7803.2	7894.0	7948.5	7982.3
15°	10198.4	9466.6	8278.1	7616.4	7447.7	7512.6	7696.8	7912.2	8070.5	8171.7	8187.3
17.5°	10432.0	9464.0	7958.9	7297.2	7258.3	7447.7	7725.4	8029.0	8241.8	8384.5	8413.0
20°	10673.3	9393.9	7587.8	6985.8	7066.2	7377.6	7738.3	8104.2	8361.1	8527.2	8566.1
22.5°	10899.1	9272.0	7180.4	6702.9	6905.3	7284.2	7689.0	8060.1	8317.0	8452.0	8493.5
25°	11052.2	9059.2	6767.8	6464.2	6762.6	7170.0	7528.1	7826.6	8018.6	8086.1	8096.4
27.5°	11130.0	8781.5	6378.5	6256.6	6614.7	6983.2	7229.7	7377.6	7432.1	7426.9	7416.5
30°	11140.4	8415.6	6043.8	6087.9	6443.4	6708.1	6824.9	6796.3	6726.3	6606.9	6617.3
32.5°	11106.7	8003.0	5763.5	5927.0	6225.4	6373.4	6378.5	6241.0	6054.2	5864.7	5812.8
35°	11117.0	7598.2	5517.0	5745.4	5960.7	6025.6	5965.9	5763.5	5509.2	5265.3	5213.4
37.5°	11231.2	7245.3	5304.2	5535.2	5667.5	5683.1	5597.4	5384.7	5197.8	4959.1	4938.3
40°	11503.7	6993.6	5101.8	5299.0	5374.3	5382.1	5260.1	5109.6	5125.2	4998.0	4995.4
42.5°	11994.2	6884.6	4922.7	5052.5	5099.2	5114.8	5021.4	4925.3	5060.3	4977.2	4948.7
45°	12627.3	6910.5	4772.2	4811.2	4896.8	4969.5	4912.4	4795.6	4847.5	4486.8	4367.4
47.5°	13359.1	7076.6	4652.9	4603.6	4751.5	4889.0	4800.8	4624.3	4440.1	4082.0	4014.5
50°	14215.5	7333.5	4543.9	4398.5	4593.2	4780.0	4691.8	4440.1	4162.4	3988.5	3965.2
52.5°	15108.2	7647.5	4434.9	4172.8	4393.4	4697.0	4652.9	4398.5	4056.0	3884.7	3853.6
55°	16120.2	7964.1	4297.3	3910.7	4178.0	4658.0	4634.7	4248.0	3975.6	3879.5	3856.2
57.5°	17378.8	8324.8	4115.7	3638.2	3975.6	4517.9	4445.3	4157.2	3892.5	3819.9	3812.1
60°	19018.9	8856.8	3853.6	3347.6	3729.0	4302.5	4287.0	4024.9	3760.2	3708.3	3697.9
62.5°	21478.9	9736.5	3492.9	3056.9	3454.0	3936.6	4079.4	3845.8	3620.0	3617.4	3622.6
65°	25293.6	11059.9	3101.0	2802.6	3176.3	3627.8	3838.0	3661.6	3477.3	3529.2	3537.0
67.5°	29715.5	12157.6	2717.0	2553.5	2893.4	3334.6	3620.0	3477.3	3287.9	3422.8	3425.4
70°	31186.9	11176.7	2379.6	2307.0	2600.2	3051.7	3383.9	3274.9	3082.9	3217.8	3204.8
72°	29022.6	9022.9	2161.6	2120.1	2379.6	2818.2	3173.7	3085.5	2896.0	2986.9	2953.1
72.5°	28340.1	8602.5	2107.2	2073.4	2319.9	2758.5	3119.2	3038.8	2849.3	2927.2	2896.0
75°	25280.6	7471.0	1811.3	1819.1	2024.1	2467.9	2813.0	2787.0	2592.4	2600.2	2589.8
77.5°	18336.4	5478.1	1525.9	1577.8	1723.1	2169.4	2504.2	2488.6	2275.8	2236.9	2229.1
80°	8509.1	2794.8	1243.0	1266.4	1416.9	1813.9	2135.7	2114.9	1943.7	1894.4	1865.8
82.5°	2914.2	1328.6	934.2	949.8	1097.7	1461.0	1852.8	1839.9	1697.1	1601.1	1541.4
85°	1040.6	661.7	653.9	638.4	783.7	1149.6	1614.1	1544.0	1333.8	1136.6	1131.4
87.5°	337.4	282.9	337.4	334.8	456.7	778.5	1172.9	999.1	967.9	804.5	788.9
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)