

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: P321589

Luminaire Tested: **GAN-SA5A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17913 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

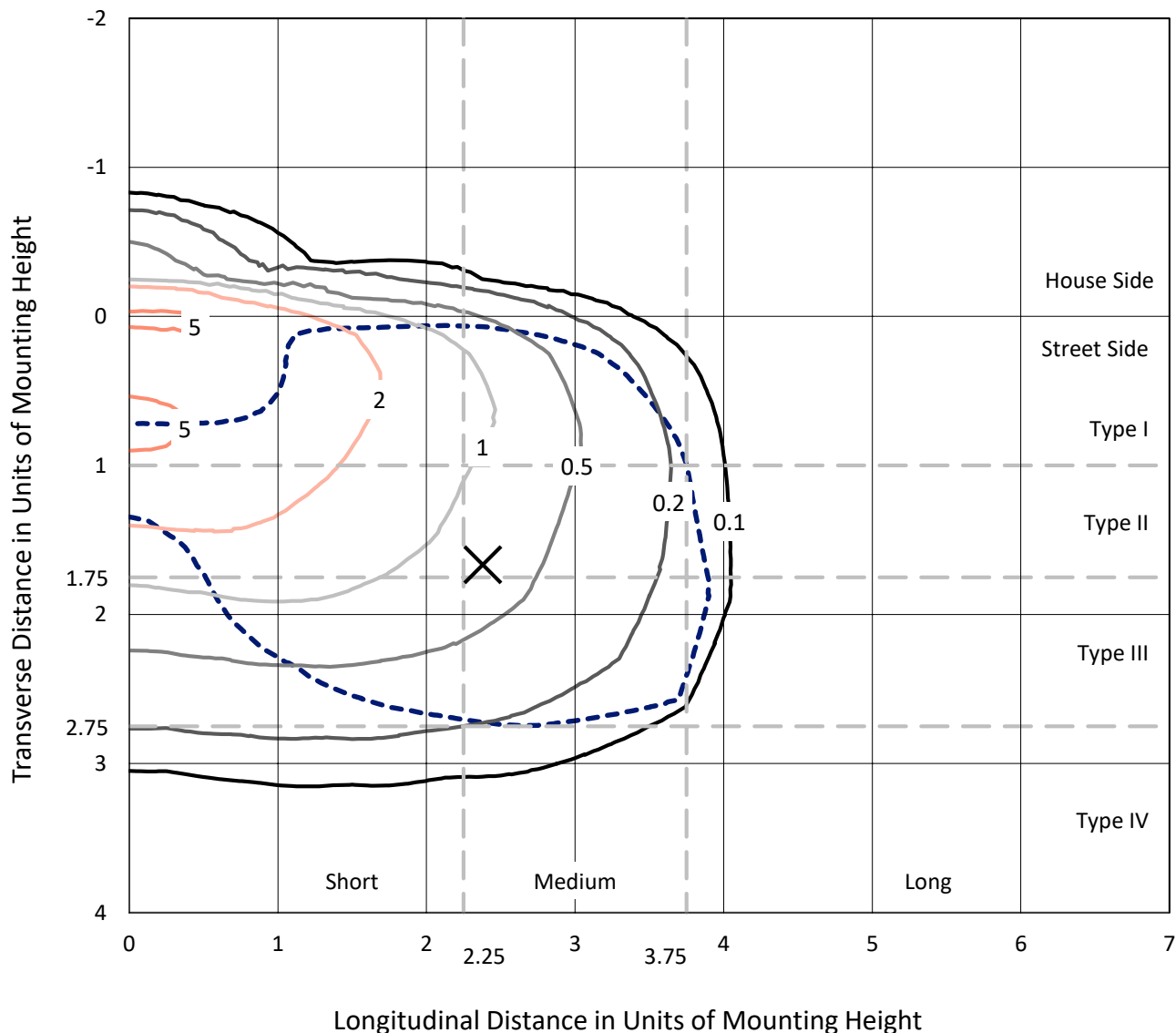
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

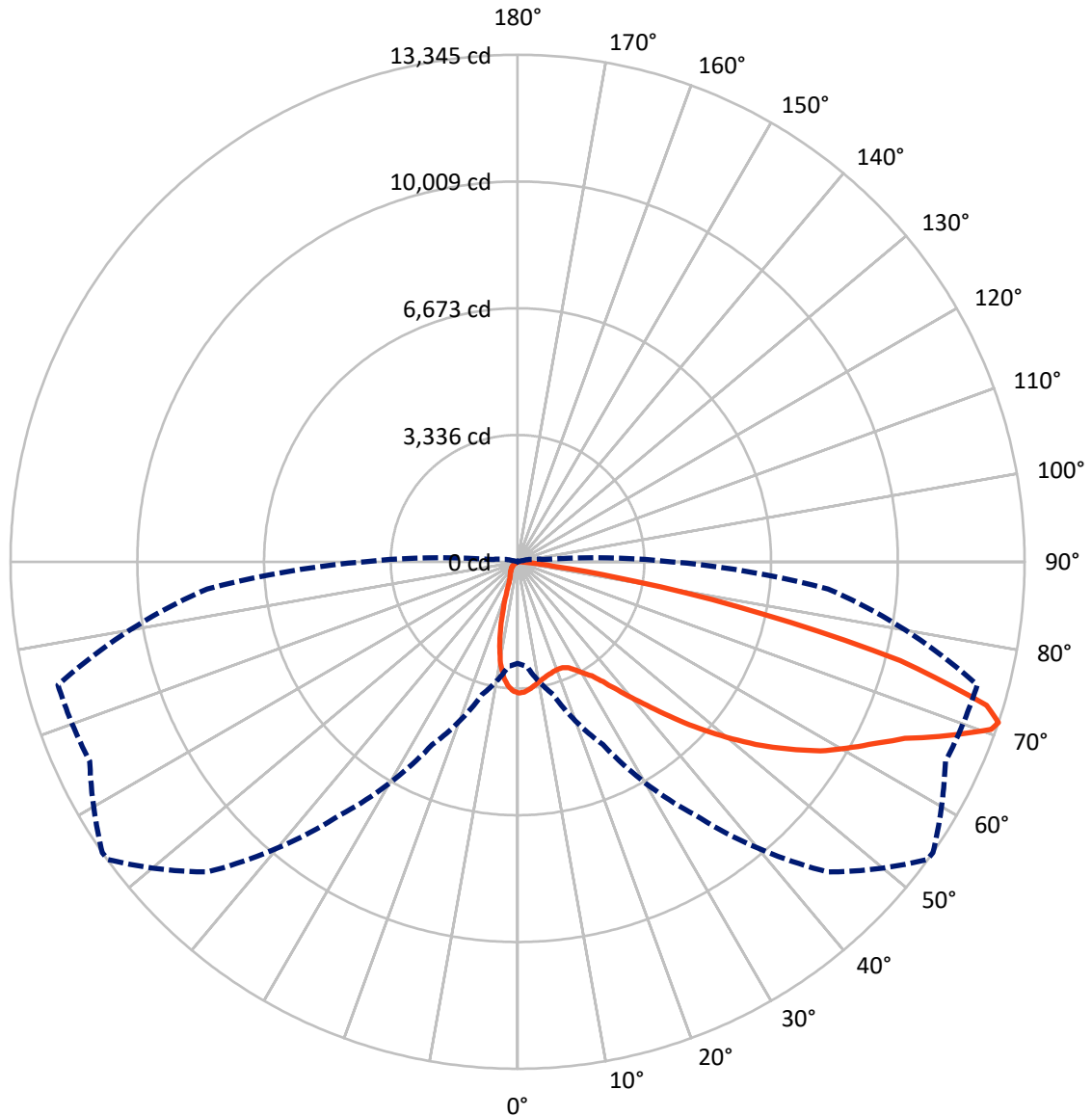
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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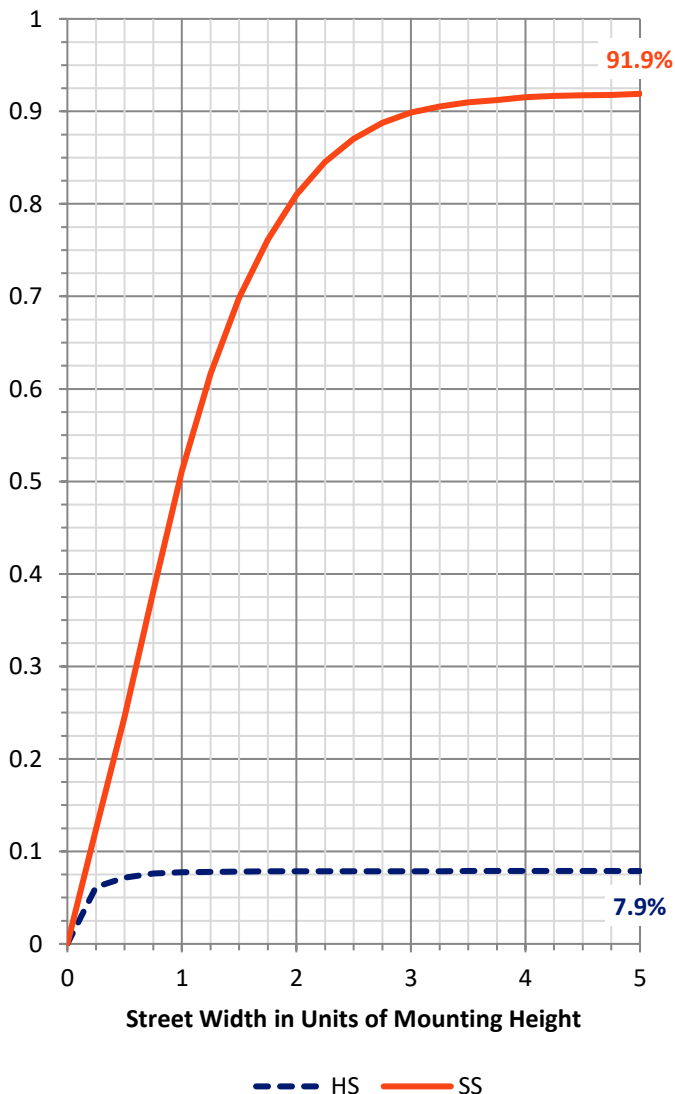
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.2	0.0	1418.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	16494.8	0.0	16494.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	17913.0	0.0	17913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.6
10°-20°	665.0	3.7
20°-30°	1068.6	6.0
30°-40°	1815.7	10.1
40°-50°	2818.1	15.7
50°-60°	3788.9	21.2
60°-70°	4635.1	25.9
70°-80°	2710.0	15.1
80°-90°	117.1	0.7
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°	17913.0	100.0
0°-180°	17913.0	100.0

Coefficient of Utilization

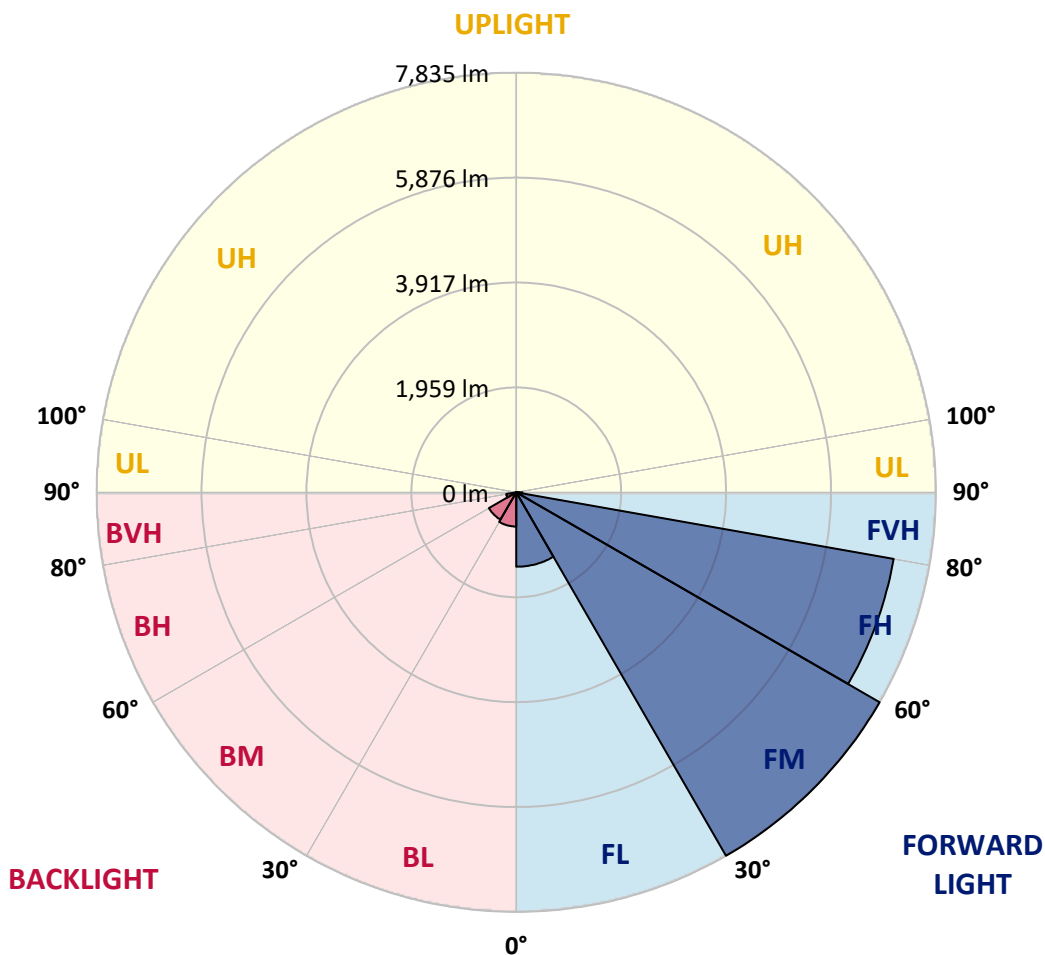


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.8	7.8			
FM (30°-60°)	7834.6	43.7			
FH (60°-80°)	7155.1	39.9			G3/7500
FVH (80°-90°)	115.3	0.6			G2/225
BL (0°-30°)	638.3	3.6	B2/1000		
BM (30°-60°)	588.0	3.3	B1/1000		
BH (60°-80°)	190.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6
2.5°	3353.2	3357.3	3371.7	3378.2	3393.5	3419.2	3432.1	3432.9	3453.8	3461.8	3468.3
5°	3116.0	3140.1	3164.2	3190.0	3236.6	3298.5	3359.7	3365.3	3432.9	3482.7	3509.3
7.5°	2911.7	2933.4	2962.3	3003.4	3069.3	3166.6	3268.8	3280.9	3408.7	3522.1	3581.7
10°	2701.7	2719.4	2761.3	2821.6	2912.5	3042.8	3180.3	3200.4	3387.0	3575.2	3679.8
12.5°	2477.3	2487.8	2538.5	2625.3	2758.8	2924.5	3105.5	3132.1	3373.3	3636.4	3795.6
15°	2306.8	2311.6	2359.9	2450.0	2602.8	2818.4	3047.6	3079.8	3376.6	3709.6	3921.9
17.5°	2263.4	2265.8	2291.5	2353.5	2488.6	2723.5	3001.7	3041.2	3386.2	3781.1	4049.0
20°	2439.5	2422.6	2396.1	2386.4	2444.4	2666.3	2974.4	3018.6	3399.1	3844.7	4163.2
22.5°	2922.9	2873.1	2762.9	2615.7	2526.4	2670.4	2981.6	3025.9	3440.1	3922.7	4295.1
25°	3640.4	3571.2	3383.8	3094.2	2816.0	2786.2	3042.0	3087.0	3519.7	4016.0	4421.4
27.5°	4456.8	4388.4	4159.2	3745.8	3271.2	3015.4	3180.3	3222.1	3638.0	4098.9	4517.9
30°	5238.6	5219.3	4949.0	4479.3	3843.9	3387.0	3358.9	3394.3	3725.6	4148.7	4594.3
32.5°	5901.4	5870.8	5653.6	5196.8	4499.4	3833.4	3568.8	3579.3	3791.6	4213.1	4694.1
35°	6515.9	6478.1	6287.4	5855.5	5171.8	4378.8	3892.1	3876.9	3935.6	4342.6	4838.8
37.5°	7052.3	7086.9	6875.4	6464.4	5775.1	4945.8	4328.1	4282.2	4160.8	4553.3	5048.8
40°	7501.2	7501.2	7391.0	7048.3	6426.6	5532.2	4821.1	4760.8	4499.4	4878.2	5315.0
42.5°	7662.8	7697.4	7738.4	7544.6	7009.7	6141.8	5370.5	5307.8	4976.4	5339.1	5651.2
45°	7672.5	7727.2	7937.1	7936.3	7536.5	6747.5	5989.8	5960.1	5587.7	5931.1	6067.8
47.5°	7536.5	7604.9	7950.8	8147.0	7954.0	7311.3	6667.1	6630.1	6305.9	6656.6	6503.8
50°	7326.6	7402.2	7804.4	8229.9	8237.9	7802.0	7380.5	7325.0	7096.6	7485.9	6954.2
52.5°	6951.0	7097.4	7673.3	8249.2	8424.5	8225.9	8059.4	8035.2	7981.3	8284.6	7312.9
55°	6147.5	6309.9	7344.3	8255.6	8597.5	8601.5	8695.6	8702.0	8810.6	9031.0	7580.0
57.5°	5767.8	5859.5	6770.0	8286.2	8854.0	9027.8	9343.9	9393.7	9561.8	9739.6	7884.8
60°	5528.9	5637.5	6486.9	8244.4	9257.0	9586.8	9944.7	9961.6	10141.8	10470.7	8297.4
62.5°	5338.3	5445.3	6308.3	8083.5	9709.8	10259.2	10531.9	10533.5	10668.6	11341.8	8766.4
65°	4867.8	4957.9	5947.2	7902.5	10009.1	10924.4	11213.9	11203.5	11313.7	12260.4	9310.9
67.5°	4187.3	4256.5	5209.6	7216.4	9896.4	11529.2	12243.5	12208.9	12075.4	13054.2	9524.8
70°	3237.4	3262.4	4106.1	6014.0	8841.2	11761.7	13238.4	13220.7	12542.7	12911.9	8740.6
71°	2676.0	2758.0	3618.7	5307.8	8134.2	11546.9	13334.9	13345.4	12425.3	12524.2	8200.9
72.5°	1554.0	1623.9	2622.9	4076.3	6906.0	10650.9	12834.7	12910.3	11876.7	11391.7	7004.9
75°	333.0	356.3	972.4	1973.0	3798.8	7465.0	10130.5	10400.0	9680.1	7749.7	4221.9
77.5°	231.6	250.1	416.6	895.2	1255.6	3688.6	6293.1	6597.1	5783.1	2912.5	1351.3
80°	183.4	204.3	324.9	442.4	339.4	1189.6	2947.9	3133.7	1928.8	649.9	227.6
82.5°	102.1	121.5	253.4	238.9	130.3	226.0	825.2	933.0	386.1	131.1	53.9
85°	29.8	36.2	163.3	173.7	55.5	43.4	140.8	174.5	73.2	34.6	24.1
87.5°	0.0	0.0	78.8	66.8	16.1	6.4	12.9	14.5	14.5	14.5	16.1
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°	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6	3454.6
2.5°	3468.3	3473.9	3453.8	3427.2	3399.1	3364.5	3328.3	3300.2	3299.4	3285.7	3272.0
5°	3510.9	3507.7	3452.2	3367.7	3268.0	3164.2	3065.3	2953.5	2916.5	2870.6	2855.4
7.5°	3589.7	3567.2	3449.8	3264.8	3046.0	2828.8	2604.4	2378.4	2281.9	2195.0	2179.7
10°	3688.6	3646.0	3434.5	3110.3	2709.0	2308.4	1969.8	1662.5	1527.4	1423.7	1418.8
12.5°	3791.6	3726.4	3391.8	2877.1	2267.4	1704.4	1314.3	1011.8	899.2	826.8	833.3
15°	3899.4	3802.1	3300.2	2562.6	1764.7	1156.6	807.5	629.8	584.7	566.2	571.1
17.5°	4009.6	3854.3	3172.3	2183.7	1268.4	746.4	559.0	509.1	509.1	513.2	514.8
20°	4105.3	3882.5	2984.1	1759.1	859.8	543.7	489.0	481.8	485.8	492.2	493.1
22.5°	4200.2	3884.1	2738.7	1328.7	601.6	476.2	465.7	462.5	464.9	472.1	472.9
25°	4277.4	3864.8	2431.5	945.1	480.2	448.8	444.0	442.4	444.0	452.8	452.8
27.5°	4308.8	3794.8	2056.7	664.4	430.3	418.3	416.6	418.3	420.7	427.1	427.9
30°	4312.0	3672.6	1648.1	481.0	390.1	377.2	380.4	386.1	383.7	382.1	383.7
32.5°	4320.0	3531.0	1249.9	395.7	356.3	336.2	332.2	332.2	322.5	316.9	313.7
35°	4346.6	3364.5	906.5	355.5	321.7	298.4	283.1	265.4	246.9	237.3	234.9
37.5°	4388.4	3190.0	649.1	329.0	291.2	264.6	235.7	204.3	177.8	170.5	170.5
40°	4464.8	3009.8	480.2	308.1	267.0	234.1	190.6	149.6	125.5	121.5	121.5
42.5°	4585.5	2820.0	382.9	289.6	246.1	202.7	145.6	108.6	90.9	88.5	87.7
45°	4710.9	2610.8	334.6	271.9	223.6	166.5	107.8	80.4	70.0	67.6	67.6
47.5°	4836.4	2388.0	311.3	255.0	201.9	129.5	80.4	63.5	58.7	58.7	59.5
50°	4942.6	2155.6	294.4	236.5	173.7	98.1	63.5	53.9	52.3	55.5	56.3
52.5°	4969.1	1927.2	273.5	213.1	139.1	74.8	52.3	47.5	47.5	47.5	47.5
55°	4953.0	1750.2	246.1	184.2	103.0	59.5	45.0	41.8	41.0	41.0	41.0
57.5°	5007.7	1645.7	197.1	143.2	74.0	48.3	39.4	37.0	35.4	34.6	34.6
60°	5117.9	1577.3	140.8	103.0	55.5	40.2	33.8	31.4	29.0	27.3	27.3
62.5°	5264.3	1517.8	104.6	76.4	42.6	32.2	28.2	25.7	22.5	20.9	20.9
65°	5376.9	1411.6	79.6	57.1	32.2	25.7	21.7	20.9	16.1	14.5	13.7
67.5°	5204.8	1178.3	64.3	41.8	24.1	20.1	16.9	16.1	9.7	8.0	8.0
70°	4464.0	820.4	51.5	30.6	17.7	16.1	13.7	10.5	7.2	6.4	6.4
71°	4048.2	685.3	46.7	25.7	15.3	15.3	12.9	8.8	6.4	5.6	5.6
72.5°	3362.9	486.6	39.4	20.1	13.7	16.1	13.7	8.0	6.4	5.6	4.8
75°	1952.1	203.5	27.3	13.7	10.5	19.3	17.7	7.2	4.8	4.0	4.0
77.5°	587.2	74.8	15.3	8.8	8.0	16.9	20.1	6.4	2.4	0.8	0.8
80°	107.0	32.2	9.7	5.6	5.6	10.5	15.3	3.2	0.0	0.0	0.0
82.5°	37.8	16.1	5.6	3.2	2.4	4.8	7.2	0.0	0.0	0.0	0.0
85°	21.7	11.3	3.2	1.6	0.0	0.8	1.6	0.0	0.0	0.0	0.0
87.5°	14.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)