

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: P322191

Luminaire Tested: **GAN-SA7A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21875 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

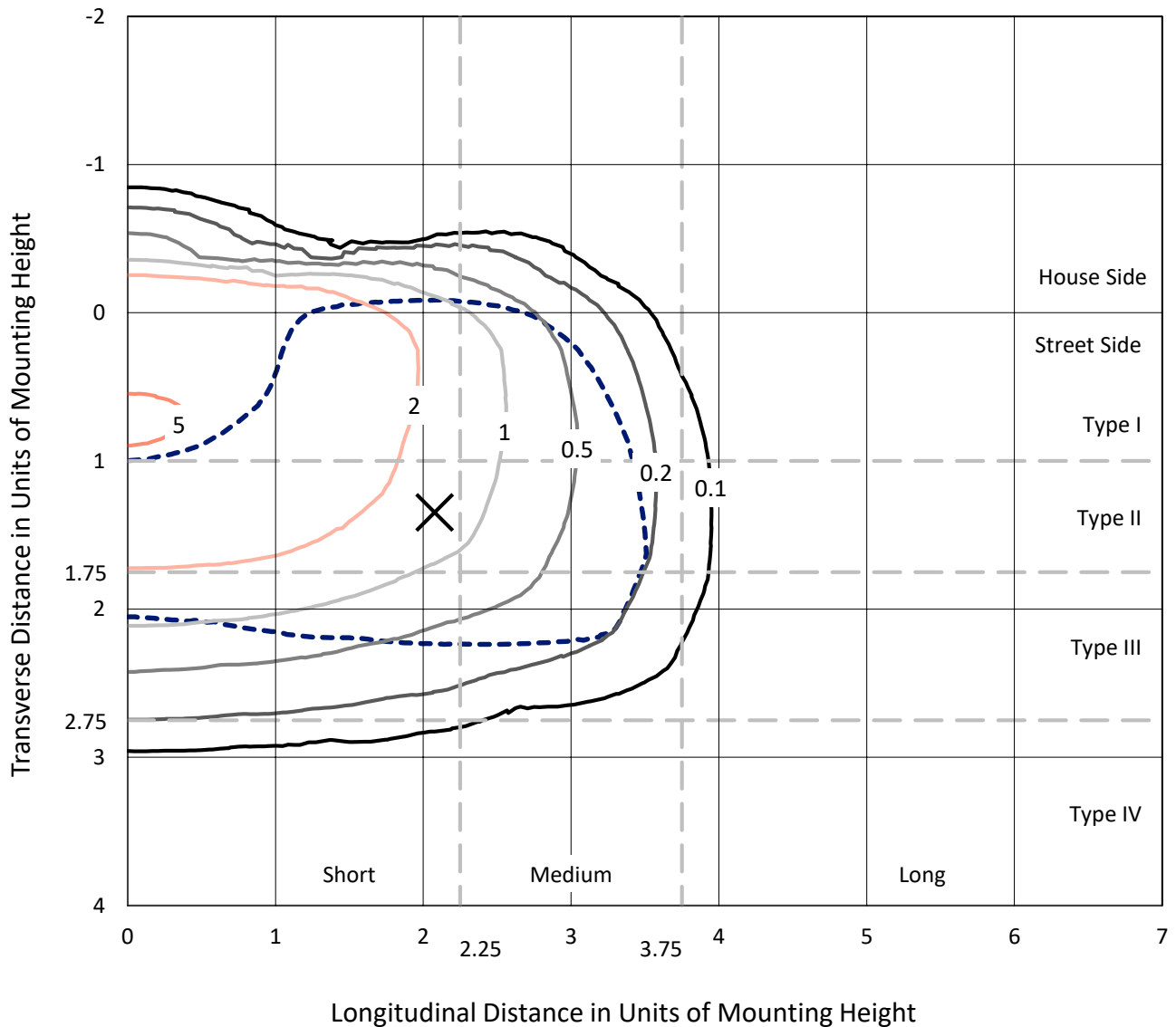
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

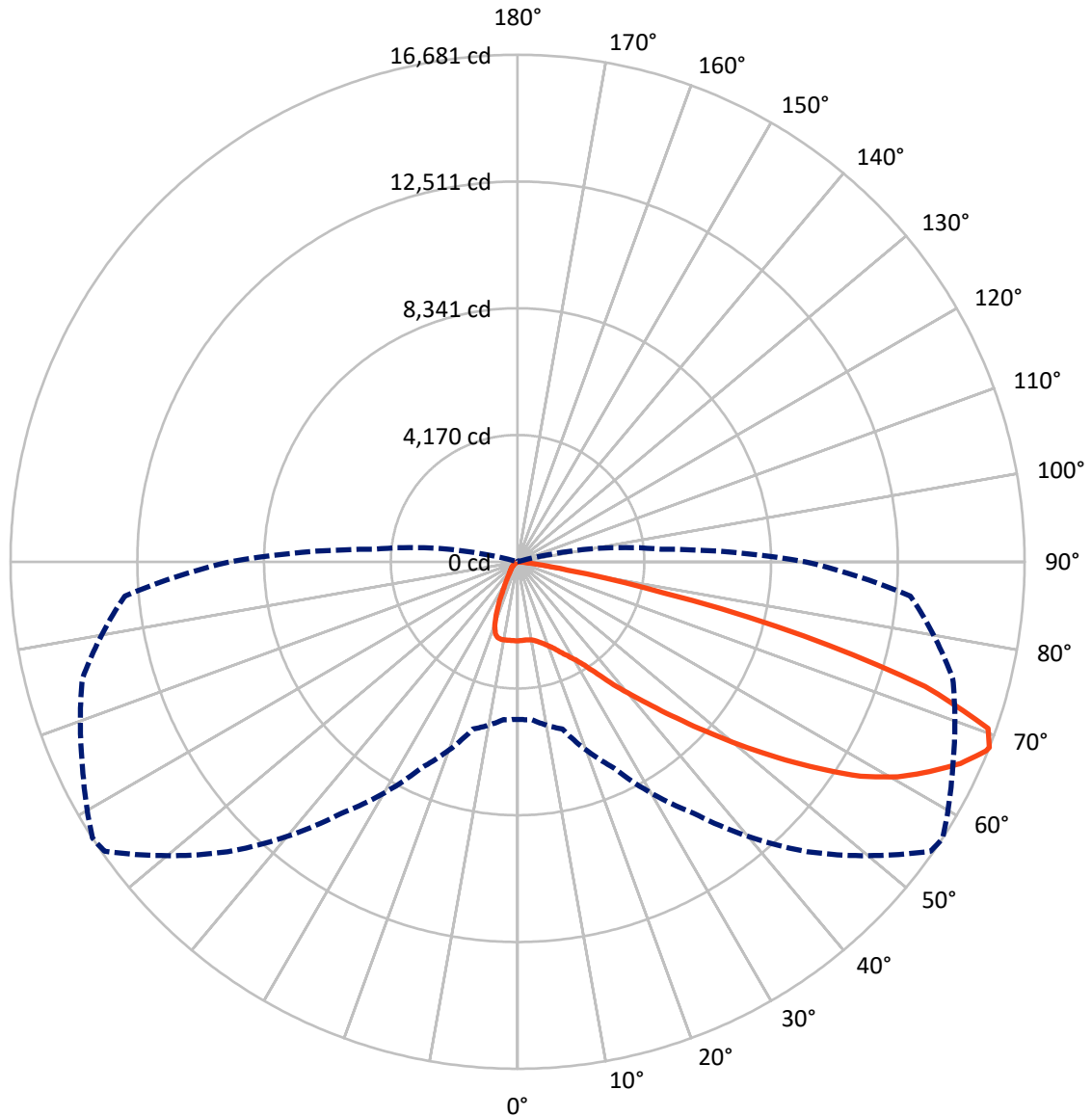
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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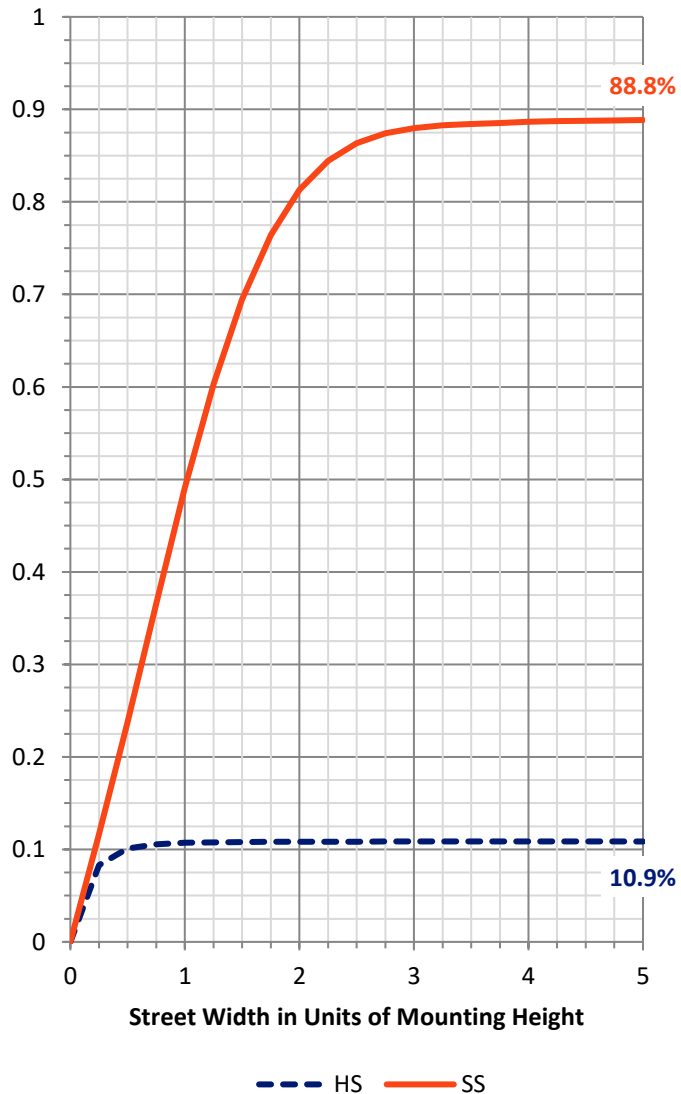
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.7	0.0	2398.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	19476.3	0.0	19476.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	21875.0	0.0	21875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	1.1
10°-20°	674.1	3.1
20°-30°	1162.9	5.3
30°-40°	2007.1	9.2
40°-50°	3433.1	15.7
50°-60°	5492.6	25.1
60°-70°	6346.1	29.0
70°-80°	2425.0	11.1
80°-90°	90.9	0.4
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°	21875.0	100.0
0°-180°	21875.0	100.0

Coefficient of Utilization



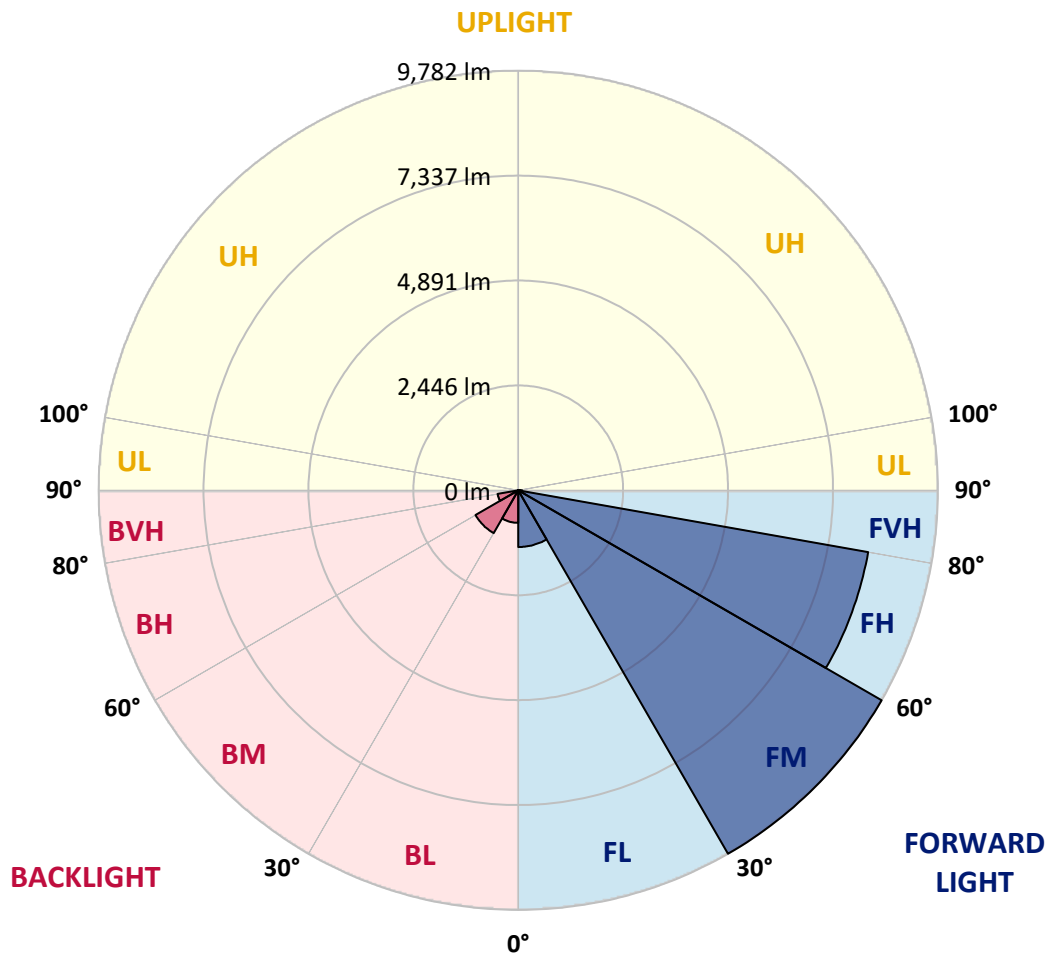
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.1	6.0			
FM (30°-60°)	9782.3	44.7			
FH (60°-80°)	8282.6	37.9			G4/12000
FVH (80°-90°)	89.2	0.4			G1/100
BL (0°-30°)	758.1	3.5	B2/1000		
BM (30°-60°)	1150.5	5.3	B2/2500		
BH (60°-80°)	488.5	2.2	B1/500		G1/500
BVH (80°-90°)	1.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3
2.5°	2538.3	2549.7	2558.0	2563.1	2569.3	2582.8	2586.9	2593.1	2596.2	2596.2	2603.5
5°	2438.0	2450.4	2468.0	2482.4	2511.4	2548.6	2575.5	2585.9	2604.5	2621.0	2630.4
7.5°	2344.9	2359.4	2380.0	2414.2	2463.8	2523.8	2579.7	2594.2	2630.4	2665.5	2683.1
10°	2284.9	2296.3	2323.2	2371.8	2436.9	2520.7	2599.3	2616.9	2679.0	2737.9	2771.0
12.5°	2264.2	2274.5	2302.5	2357.3	2438.0	2536.2	2644.8	2670.7	2761.7	2847.6	2894.1
15°	2294.2	2296.3	2326.3	2378.0	2457.6	2574.5	2720.3	2751.4	2866.2	2977.9	3035.8
17.5°	2410.0	2400.7	2416.2	2439.0	2502.1	2625.2	2800.0	2846.5	2999.6	3131.0	3185.8
20°	2699.7	2699.7	2664.5	2602.4	2603.5	2703.8	2907.6	2960.3	3147.5	3299.6	3349.2
22.5°	3195.1	3185.8	3115.5	2963.4	2823.8	2839.3	3038.9	3107.2	3325.4	3487.8	3504.4
25°	3790.9	3779.5	3670.9	3456.8	3214.8	3058.6	3216.8	3295.4	3537.5	3681.3	3647.1
27.5°	4421.9	4412.5	4305.0	4039.1	3694.7	3408.2	3428.9	3503.4	3753.7	3895.4	3786.8
30°	5033.2	5036.3	4929.7	4656.7	4266.7	3854.0	3697.8	3741.3	3963.6	4107.4	3952.3
32.5°	5614.5	5618.6	5526.5	5221.4	4857.3	4372.2	4070.2	4058.8	4207.7	4349.5	4171.5
35°	6132.7	6143.0	6079.9	5843.1	5457.2	4949.4	4553.2	4526.3	4554.3	4714.6	4507.7
37.5°	6632.3	6638.5	6590.9	6391.3	6068.5	5583.4	5163.5	5125.2	5065.2	5188.3	4951.4
40°	7179.4	7163.9	7109.1	6928.1	6650.9	6283.7	5819.3	5753.1	5648.6	5758.2	5534.8
42.5°	7688.3	7670.8	7680.1	7475.3	7241.5	7003.6	6583.7	6469.9	6408.8	6535.0	6250.6
45°	8324.5	8315.2	8346.2	8168.3	7979.0	7806.3	7459.7	7335.6	7308.7	7456.6	7116.3
47.5°	8952.3	8975.1	9071.3	8995.8	8919.2	8767.2	8387.6	8331.7	8348.3	8527.2	8029.7
50°	9475.7	9502.6	9766.4	9853.2	9963.9	9875.0	9494.3	9460.2	9525.3	9686.7	9012.3
52.5°	9854.3	9909.1	10237.0	10637.3	11040.7	11100.7	10721.1	10690.0	10777.9	10802.8	9771.5
55°	10117.0	10165.6	10536.9	11269.3	12090.5	12349.1	12113.3	11993.3	11976.8	11731.6	10570.0
57.5°	10163.5	10158.4	10692.1	11677.8	12913.9	13581.0	13432.1	13314.2	12974.9	12590.1	11485.4
60°	9900.8	9930.8	10550.4	11819.5	13431.1	14513.0	14524.4	14371.3	13842.7	13424.9	12372.9
62.5°	9092.0	9214.0	9839.8	11448.2	13424.9	14888.5	15325.0	15208.1	14576.1	14108.6	13272.8
65°	7780.4	7823.8	8420.7	10176.0	12517.7	14731.2	16045.9	16002.5	15237.0	14772.6	13735.2
67.5°	5681.7	5587.6	6214.4	8013.1	10598.0	13814.8	16563.1	16617.9	15747.0	14909.2	13242.8
68°	5185.2	5213.1	5701.3	7478.4	10095.3	13491.1	16597.2	16681.0	15797.7	14820.2	12973.9
70°	3090.6	3144.4	3579.9	5149.0	7680.1	11659.2	16229.0	16420.3	15495.6	13902.7	11221.7
72.5°	789.2	853.3	1265.0	2304.5	4386.7	8214.8	13700.0	14023.7	13453.8	11278.6	7575.6
75°	324.8	341.3	452.0	759.2	1634.3	3700.9	9029.9	9722.9	9326.8	6752.3	3423.7
77.5°	224.5	235.8	290.7	421.0	707.5	1254.7	4427.0	4927.7	4439.4	2304.5	746.8
80°	161.4	170.7	207.9	280.3	406.5	447.9	1442.9	1668.4	1325.0	505.8	185.1
82.5°	96.2	103.4	155.2	199.6	247.2	214.1	358.9	407.5	383.7	251.3	82.7
85°	47.6	55.9	104.5	142.7	133.4	90.0	109.6	122.1	151.0	153.1	44.5
87.5°	3.1	6.2	61.0	85.9	37.2	20.7	32.1	39.3	53.8	75.5	18.6
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°	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3	2599.3
2.5°	2606.6	2607.6	2600.4	2597.3	2599.3	2586.9	2581.7	2583.8	2583.8	2586.9	2581.7
5°	2632.4	2632.4	2620.0	2603.5	2594.2	2570.4	2554.8	2550.7	2547.6	2545.5	2541.4
7.5°	2688.3	2682.1	2660.4	2624.2	2593.1	2541.4	2502.1	2481.4	2471.1	2466.9	2463.8
10°	2778.3	2766.9	2730.7	2663.5	2592.1	2500.0	2414.2	2353.2	2302.5	2281.8	2269.4
12.5°	2899.3	2882.7	2821.7	2710.0	2584.8	2415.2	2229.0	2050.1	1883.6	1815.3	1781.2
15°	3038.9	3015.1	2918.9	2749.3	2542.4	2223.9	1819.4	1506.0	1275.4	1188.5	1151.2
17.5°	3180.6	3149.6	3003.8	2774.1	2415.2	1827.7	1276.4	964.0	809.9	768.5	754.0
20°	3323.4	3277.9	3077.2	2755.5	2127.7	1317.8	842.0	704.4	659.9	647.5	643.4
22.5°	3458.9	3388.5	3143.4	2683.1	1685.0	884.4	666.1	622.7	608.2	601.0	598.9
25°	3576.8	3478.5	3201.3	2459.7	1192.6	668.2	599.9	585.4	566.8	553.4	554.4
27.5°	3687.5	3568.5	3236.5	2091.5	795.4	571.0	555.4	535.8	501.7	482.0	482.0
30°	3820.9	3688.5	3262.3	1609.5	585.4	504.8	492.4	462.4	415.8	390.0	390.0
32.5°	4021.6	3870.5	3245.8	1129.5	485.1	443.7	414.8	373.4	322.7	297.9	296.9
35°	4328.8	4151.9	3127.9	740.6	428.2	385.8	339.3	288.6	244.1	223.4	222.4
37.5°	4742.5	4528.4	2863.1	529.6	383.7	332.0	276.2	220.3	187.2	173.8	172.7
40°	5279.3	4965.9	2484.5	429.3	342.4	280.3	213.1	170.7	147.9	137.6	138.6
42.5°	5923.7	5434.5	2030.4	370.3	302.0	230.7	166.5	134.5	120.0	112.7	110.7
45°	6639.5	5896.8	1554.6	330.0	261.7	186.2	130.3	106.5	95.2	91.0	91.0
47.5°	7426.6	6346.8	1137.8	294.8	218.2	143.8	104.5	86.9	77.6	74.5	73.4
50°	8141.4	6659.2	820.2	257.6	178.9	113.8	84.8	72.4	66.2	62.1	62.1
52.5°	8737.2	6757.4	604.1	217.2	144.8	91.0	70.3	62.1	55.9	52.8	52.8
55°	9261.6	6717.1	448.9	178.9	116.9	74.5	60.0	52.8	47.6	44.5	44.5
57.5°	9764.3	6586.8	335.1	145.8	94.1	60.0	50.7	44.5	39.3	37.2	37.2
60°	10174.9	6369.5	249.3	117.9	75.5	48.6	42.4	36.2	32.1	29.0	29.0
62.5°	10508.0	6129.6	183.1	97.2	60.0	38.3	33.1	30.0	23.8	20.7	20.7
65°	10510.1	5731.3	137.6	80.7	46.5	30.0	24.8	23.8	15.5	12.4	11.4
67.5°	9749.8	4941.1	105.5	69.3	36.2	22.8	18.6	19.7	8.3	5.2	4.1
68°	9473.6	4740.4	99.3	68.3	34.1	21.7	17.6	19.7	7.2	4.1	3.1
70°	7987.3	3771.2	79.6	66.2	30.0	16.5	14.5	19.7	6.2	3.1	2.1
72.5°	5108.7	2188.7	59.0	52.8	22.8	12.4	9.3	17.6	6.2	2.1	1.0
75°	2174.2	678.5	40.3	37.2	13.4	9.3	6.2	11.4	4.1	1.0	0.0
77.5°	458.2	153.1	23.8	22.8	9.3	6.2	4.1	3.1	1.0	0.0	0.0
80°	117.9	44.5	12.4	11.4	5.2	3.1	2.1	0.0	0.0	0.0	0.0
82.5°	37.2	17.6	7.2	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	10.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	3.1	1.0	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)