

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: P322232

Luminaire Tested: **GAN-SA8A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322232
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-SA8A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 27218 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

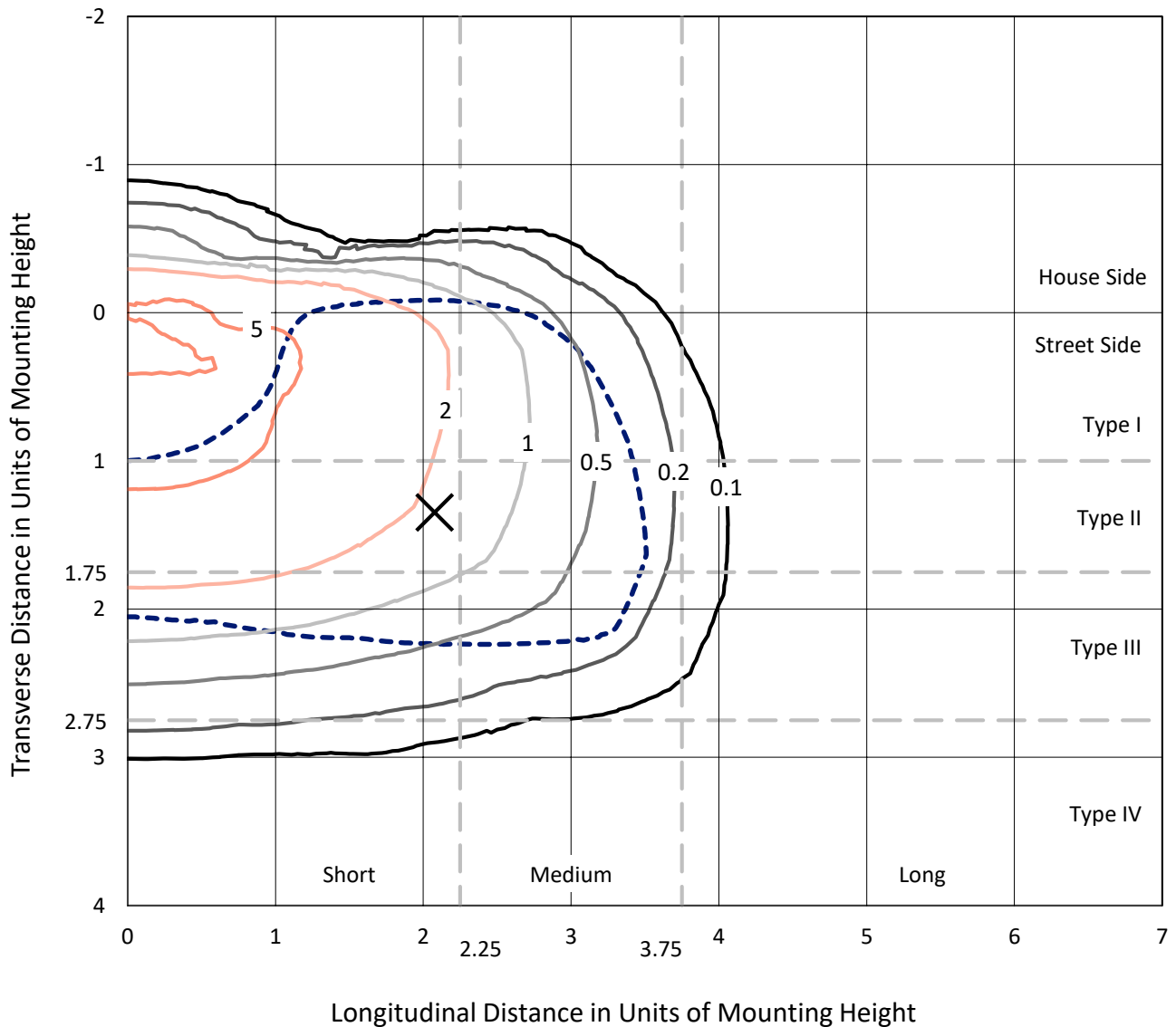
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

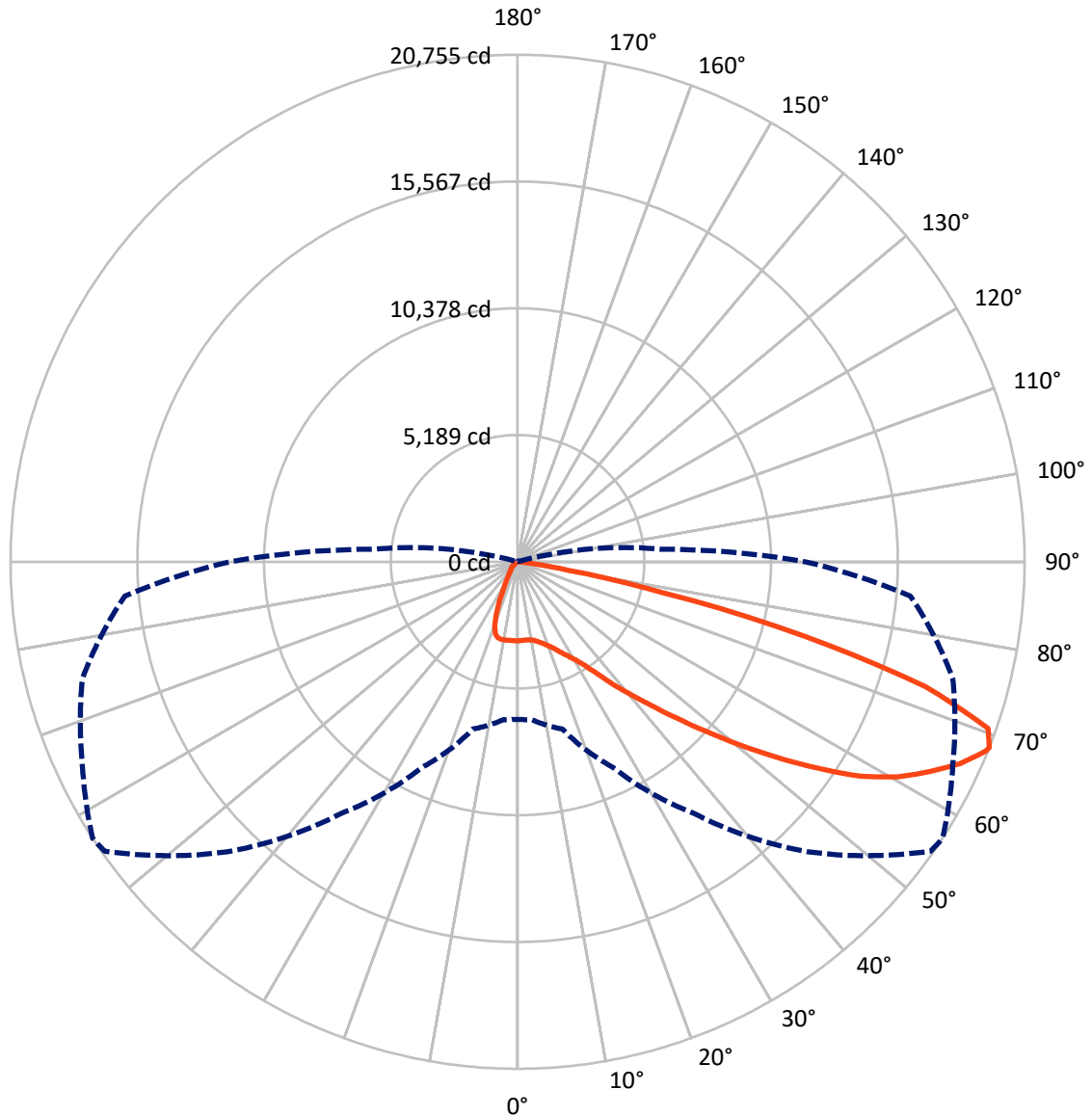
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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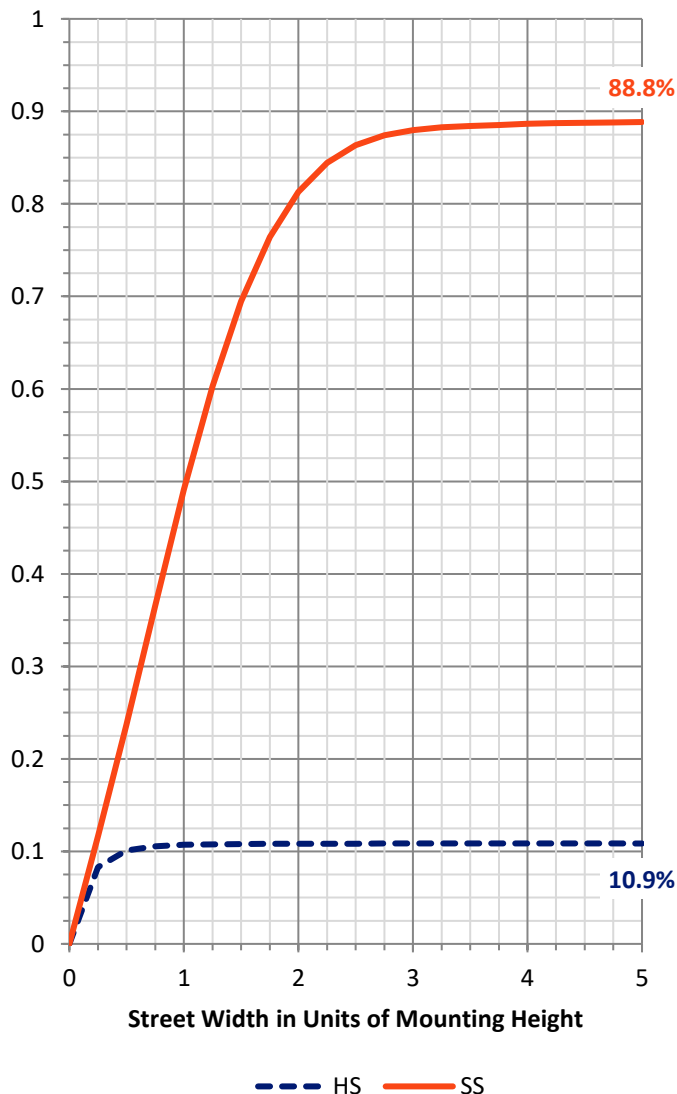
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.6	0.0	2984.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	24233.4	0.0	24233.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	27218.0	0.0	27218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.1
10°-20°	838.7	3.1
20°-30°	1446.9	5.3
30°-40°	2497.3	9.2
40°-50°	4271.6	15.7
50°-60°	6834.2	25.1
60°-70°	7896.2	29.0
70°-80°	3017.3	11.1
80°-90°	113.1	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°	27218.0	100.0
0°-180°	27218.0	100.0

Coefficient of Utilization



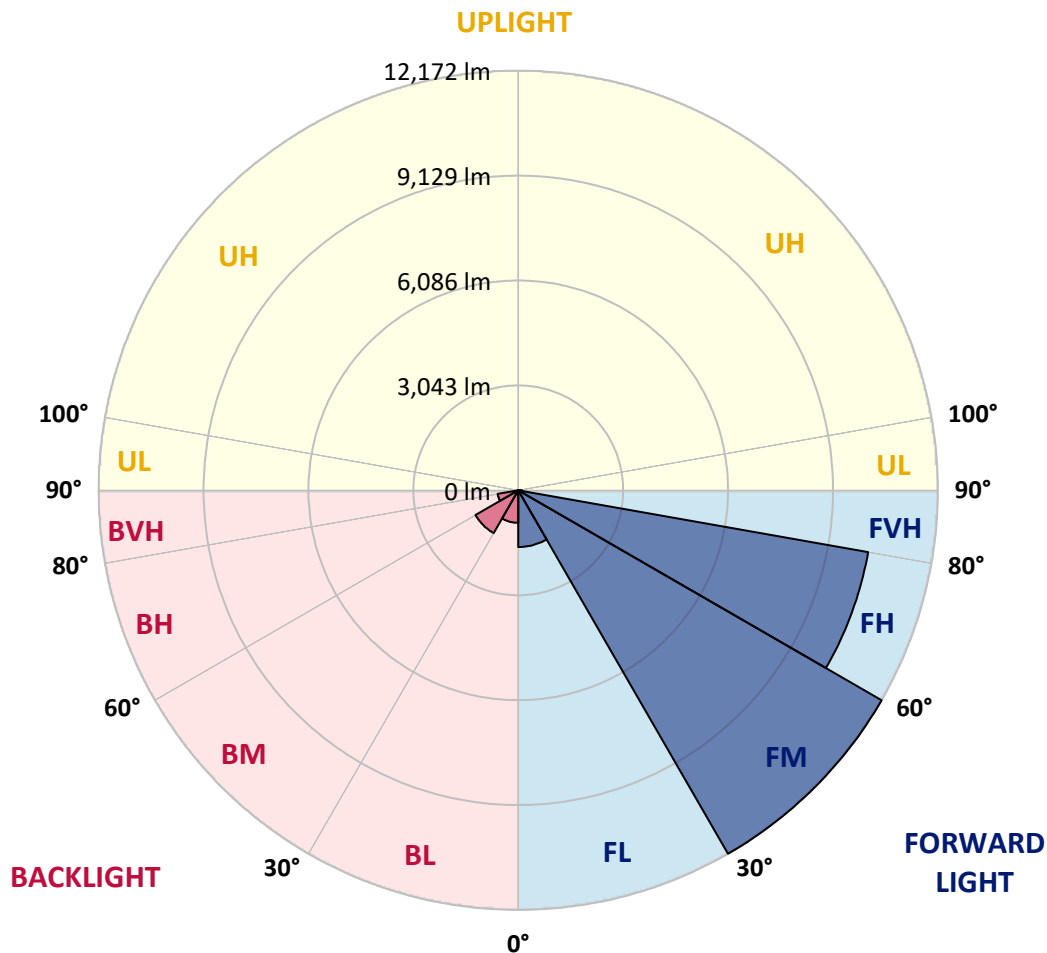
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.1	6.0			
FM (30°-60°)	12171.7	44.7			
FH (60°-80°)	10305.6	37.9			G4/12000
FVH (80°-90°)	111.0	0.4			G2/225
BL (0°-30°)	943.2	3.5	B2/1000		
BM (30°-60°)	1431.5	5.3	B2/2500		
BH (60°-80°)	607.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.1	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°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	3158.3	3172.4	3182.7	3189.2	3196.9	3213.6	3218.8	3226.5	3230.4	3230.4	3239.4
5°	3033.4	3048.9	3070.8	3088.8	3124.8	3171.2	3204.6	3217.5	3240.7	3261.2	3272.8
7.5°	2917.6	2935.6	2961.4	3003.8	3065.6	3140.3	3209.8	3227.8	3272.8	3316.6	3338.5
10°	2843.0	2857.1	2890.6	2951.1	3032.2	3136.4	3234.2	3256.1	3333.3	3406.7	3447.9
12.5°	2817.2	2830.1	2864.8	2933.1	3033.4	3155.7	3290.8	3323.0	3436.3	3543.1	3601.0
15°	2854.6	2857.1	2894.4	2958.8	3057.9	3203.3	3384.8	3423.4	3566.3	3705.3	3777.3
17.5°	2998.7	2987.1	3006.4	3034.7	3113.2	3266.4	3483.9	3541.8	3732.3	3895.7	3963.9
20°	3359.1	3359.1	3315.3	3238.1	3239.4	3364.2	3617.7	3683.4	3916.3	4105.5	4167.3
22.5°	3975.5	3963.9	3876.4	3687.2	3513.5	3532.8	3781.2	3866.1	4137.7	4339.7	4360.3
25°	4716.8	4702.7	4567.5	4301.1	4000.0	3805.6	4002.6	4100.4	4401.5	4580.4	4537.9
27.5°	5501.9	5490.3	5356.5	5025.7	4597.1	4240.6	4266.4	4359.0	4670.5	4846.8	4711.7
30°	6262.5	6266.4	6133.8	5794.0	5308.9	4795.3	4601.0	4655.1	4931.8	5110.7	4917.6
32.5°	6985.8	6991.0	6876.4	6496.7	6043.7	5440.1	5064.3	5050.2	5235.5	5411.8	5190.4
35°	7630.6	7643.5	7565.0	7270.2	6790.2	6158.3	5665.3	5631.9	5666.6	5866.1	5608.7
37.5°	8252.2	8259.9	8200.7	7952.3	7550.8	6947.2	6424.7	6377.1	6302.4	6455.6	6160.8
40°	8933.0	8913.7	8845.5	8620.3	8275.4	7818.5	7240.6	7158.3	7028.3	7164.7	6886.7
42.5°	9566.2	9544.3	9555.9	9301.1	9010.2	8714.2	8191.7	8050.1	7974.2	8131.2	7777.3
45°	10357.7	10346.1	10384.8	10163.4	9927.9	9712.9	9281.8	9127.4	9093.9	9277.9	8854.5
47.5°	11138.9	11167.2	11286.9	11193.0	11097.7	10908.6	10436.2	10366.7	10387.3	10610.0	9990.9
50°	11790.2	11823.6	12151.8	12259.9	12397.6	12286.9	11813.3	11770.8	11851.9	12052.7	11213.6
52.5°	12261.2	12329.4	12737.4	13235.4	13737.4	13812.0	13339.7	13301.1	13410.5	13441.4	12158.2
55°	12588.1	12648.6	13110.6	14021.8	15043.7	15365.4	15072.0	14922.7	14902.1	14597.1	13151.8
57.5°	12646.0	12639.6	13303.7	14530.2	16068.1	16898.2	16712.9	16566.2	16144.1	15665.3	14290.8
60°	12319.1	12356.4	13127.3	14706.5	16711.6	18057.8	18072.0	17881.5	17223.8	16703.9	15395.0
62.5°	11312.7	11464.5	12243.2	14244.4	16703.9	18525.0	19068.1	18922.7	18136.3	17554.6	16514.7
65°	9680.8	9734.8	10477.4	12661.4	15575.2	18329.4	19965.1	19911.1	18958.7	18380.8	17090.0
67.5°	7069.5	6952.3	7732.3	9970.3	13186.5	17189.1	20608.6	20676.8	19593.2	18550.7	16477.4
68°	6451.7	6486.4	7093.9	9305.0	12561.1	16786.3	20651.1	20755.4	19656.3	18440.1	16142.8
70°	3845.5	3912.5	4454.3	6406.7	9555.9	14507.0	20192.9	20431.0	19280.5	17298.5	13962.6
72.5°	982.0	1061.8	1574.0	2867.4	5458.1	10221.3	17046.2	17449.1	16739.9	14033.4	9425.9
75°	404.1	424.7	562.4	944.7	2033.5	4604.9	11235.5	12097.7	11604.8	8401.5	4260.0
77.5°	279.3	293.4	361.6	523.8	880.3	1561.1	5508.3	6131.2	5523.8	2867.4	929.2
80°	200.8	212.4	258.7	348.8	505.8	557.3	1795.4	2075.9	1648.6	629.3	230.4
82.5°	119.7	128.7	193.0	248.4	307.6	266.4	446.6	507.1	477.5	312.7	103.0
85°	59.2	69.5	130.0	177.6	166.0	112.0	136.4	151.9	187.9	190.5	55.3
87.5°	3.9	7.7	75.9	106.8	46.3	25.7	39.9	48.9	66.9	94.0	23.2
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°	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2	3234.2
2.5°	3243.2	3244.5	3235.5	3231.6	3234.2	3218.8	3212.3	3214.9	3214.9	3218.8	3212.3
5°	3275.4	3275.4	3260.0	3239.4	3227.8	3198.2	3178.9	3173.7	3169.9	3167.3	3162.1
7.5°	3344.9	3337.2	3310.1	3265.1	3226.5	3162.1	3113.2	3087.5	3074.6	3069.5	3065.6
10°	3456.9	3442.7	3397.7	3314.0	3225.2	3110.7	3003.8	2927.9	2864.8	2839.1	2823.7
12.5°	3607.4	3586.9	3510.9	3371.9	3216.2	3005.1	2773.5	2550.8	2343.6	2258.7	2216.2
15°	3781.2	3751.6	3631.9	3420.8	3163.4	2767.0	2263.8	1873.9	1586.9	1478.8	1432.4
17.5°	3957.5	3918.9	3737.4	3451.7	3005.1	2274.1	1588.2	1199.5	1007.7	956.2	938.2
20°	4135.1	4078.5	3828.8	3428.6	2647.3	1639.6	1047.6	876.4	821.1	805.7	800.5
22.5°	4303.7	4216.2	3911.2	3338.5	2096.5	1100.4	828.8	774.8	756.8	747.7	745.2
25°	4450.4	4328.2	3983.2	3060.5	1483.9	831.4	746.5	728.4	705.3	688.5	689.8
27.5°	4588.1	4440.1	4027.0	2602.3	989.7	710.4	691.1	666.7	624.2	599.7	599.7
30°	4754.2	4589.4	4059.2	2002.6	728.4	628.1	612.6	575.3	517.4	485.2	485.2
32.5°	5003.8	4815.9	4038.6	1405.4	603.6	552.1	516.1	464.6	401.5	370.7	369.4
35°	5386.1	5166.0	3891.9	921.5	532.8	480.0	422.1	359.1	303.7	278.0	276.7
37.5°	5900.9	5634.5	3562.4	658.9	477.5	413.1	343.6	274.1	232.9	216.2	214.9
40°	6568.8	6178.9	3091.4	534.1	426.0	348.8	265.1	212.4	184.0	171.2	172.5
42.5°	7370.6	6761.9	2526.4	460.7	375.8	287.0	207.2	167.3	149.3	140.3	137.7
45°	8261.2	7337.2	1934.4	410.6	325.6	231.7	162.2	132.6	118.4	113.3	113.3
47.5°	9240.6	7897.0	1415.7	366.8	271.6	178.9	130.0	108.1	96.5	92.7	91.4
50°	10129.9	8285.7	1020.6	320.5	222.6	141.6	105.5	90.1	82.4	77.2	77.2
52.5°	10871.2	8407.9	751.6	270.3	180.2	113.3	87.5	77.2	69.5	65.6	65.6
55°	11523.7	8357.7	558.6	222.6	145.4	92.7	74.6	65.6	59.2	55.3	55.3
57.5°	12149.2	8195.6	417.0	181.5	117.1	74.6	63.1	55.3	48.9	46.3	46.3
60°	12660.2	7925.3	310.2	146.7	94.0	60.5	52.8	45.0	39.9	36.0	36.0
62.5°	13074.6	7626.7	227.8	121.0	74.6	47.6	41.2	37.3	29.6	25.7	25.7
65°	13077.1	7131.2	171.2	100.4	57.9	37.3	30.9	29.6	19.3	15.4	14.2
67.5°	12131.2	6148.0	131.3	86.2	45.0	28.3	23.2	24.5	10.3	6.4	5.1
68°	11787.6	5898.3	123.6	84.9	42.5	27.0	21.9	24.5	9.0	5.1	3.9
70°	9938.2	4692.4	99.1	82.4	37.3	20.6	18.0	24.5	7.7	3.9	2.6
72.5°	6356.5	2723.3	73.4	65.6	28.3	15.4	11.6	21.9	7.7	2.6	1.3
75°	2705.3	844.3	50.2	46.3	16.7	11.6	7.7	14.2	5.1	1.3	0.0
77.5°	570.1	190.5	29.6	28.3	11.6	7.7	5.1	3.9	1.3	0.0	0.0
80°	146.7	55.3	15.4	14.2	6.4	3.9	2.6	0.0	0.0	0.0	0.0
82.5°	46.3	21.9	9.0	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.2	12.9	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	3.9	1.3	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)