

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: P322193

Luminaire Tested: **GAN-SA9A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322193
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-SA9A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 27648 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

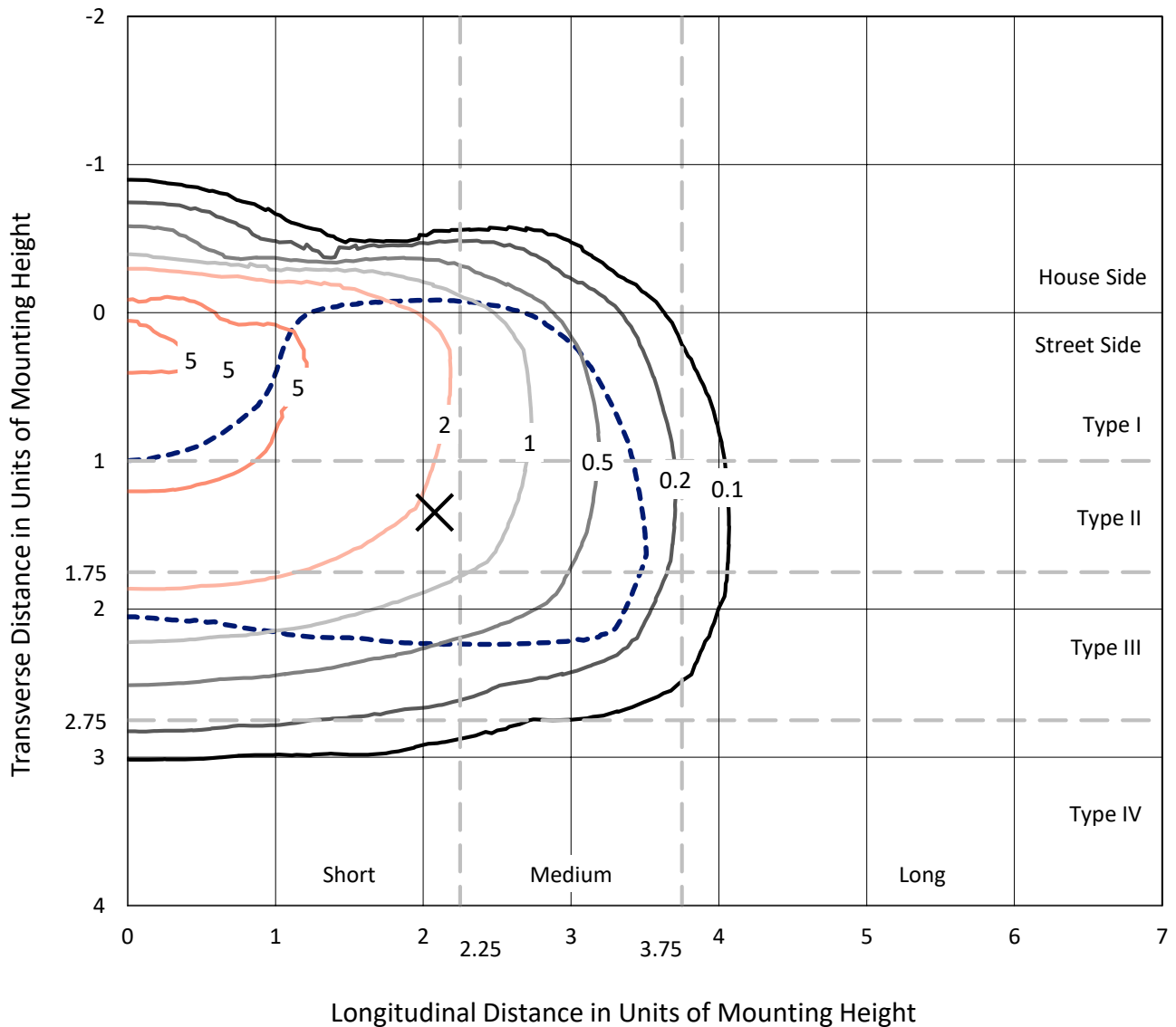
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

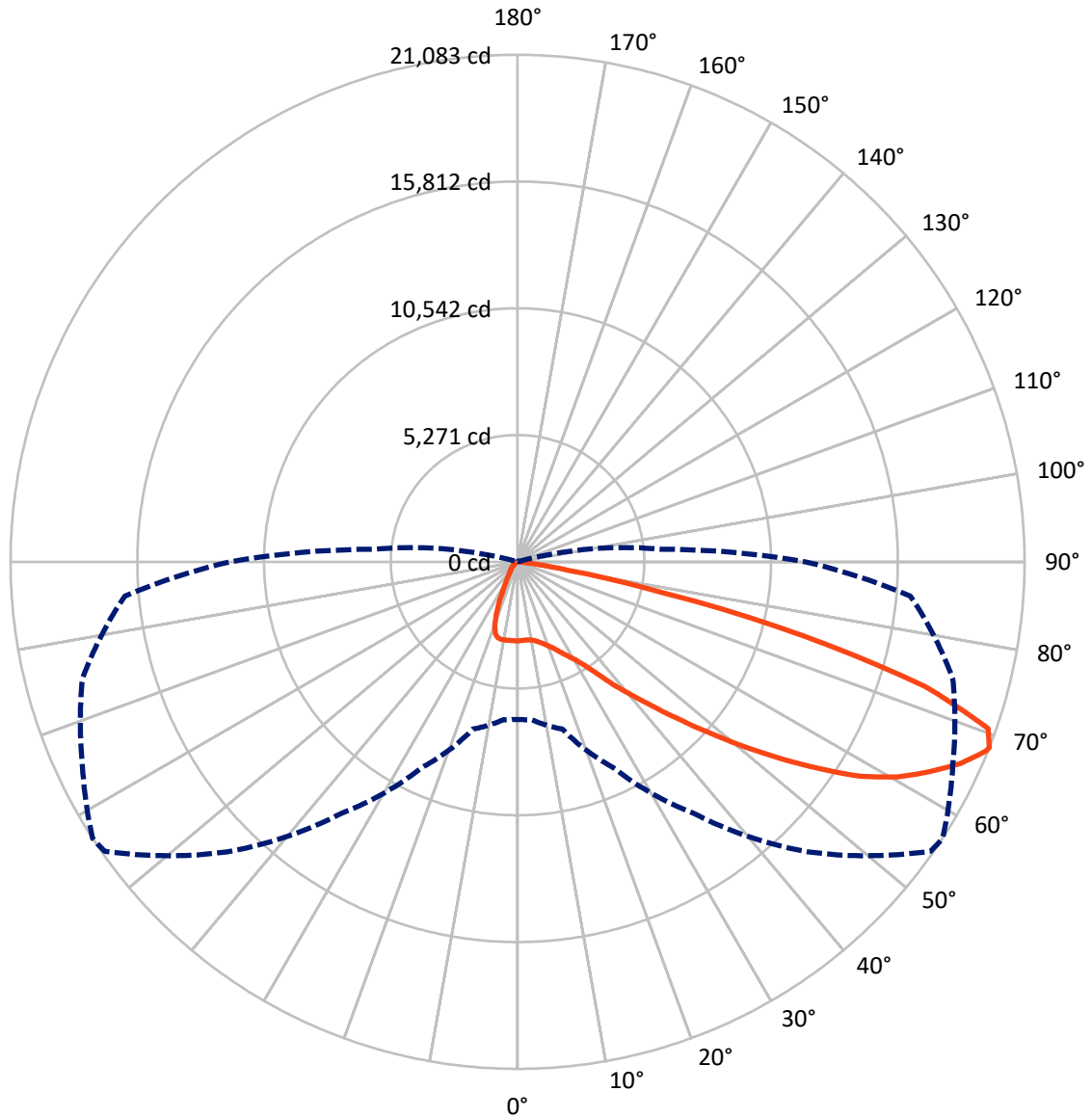
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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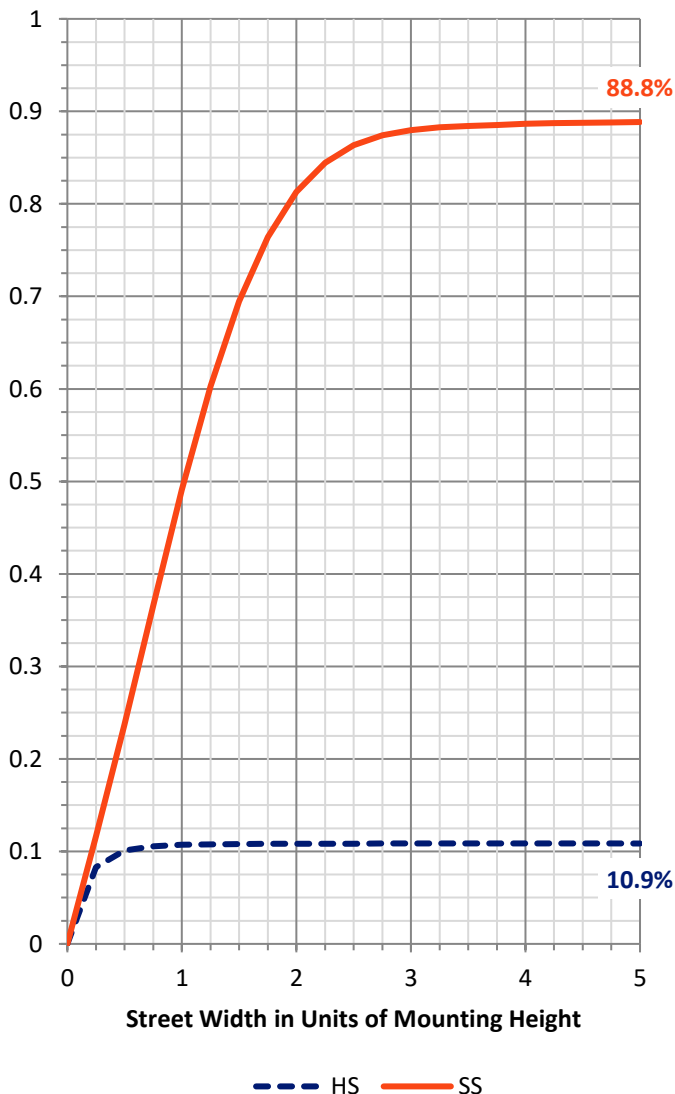
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3031.8	0.0	3031.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	24616.2	0.0	24616.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	27648.0	0.0	27648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.5	1.1
10°-20°	852.0	3.1
20°-30°	1469.8	5.3
30°-40°	2536.7	9.2
40°-50°	4339.1	15.7
50°-60°	6942.2	25.1
60°-70°	8020.9	29.0
70°-80°	3064.9	11.1
80°-90°	114.9	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°	27648.0	100.0
0°-180°	27648.0	100.0

Coefficient of Utilization

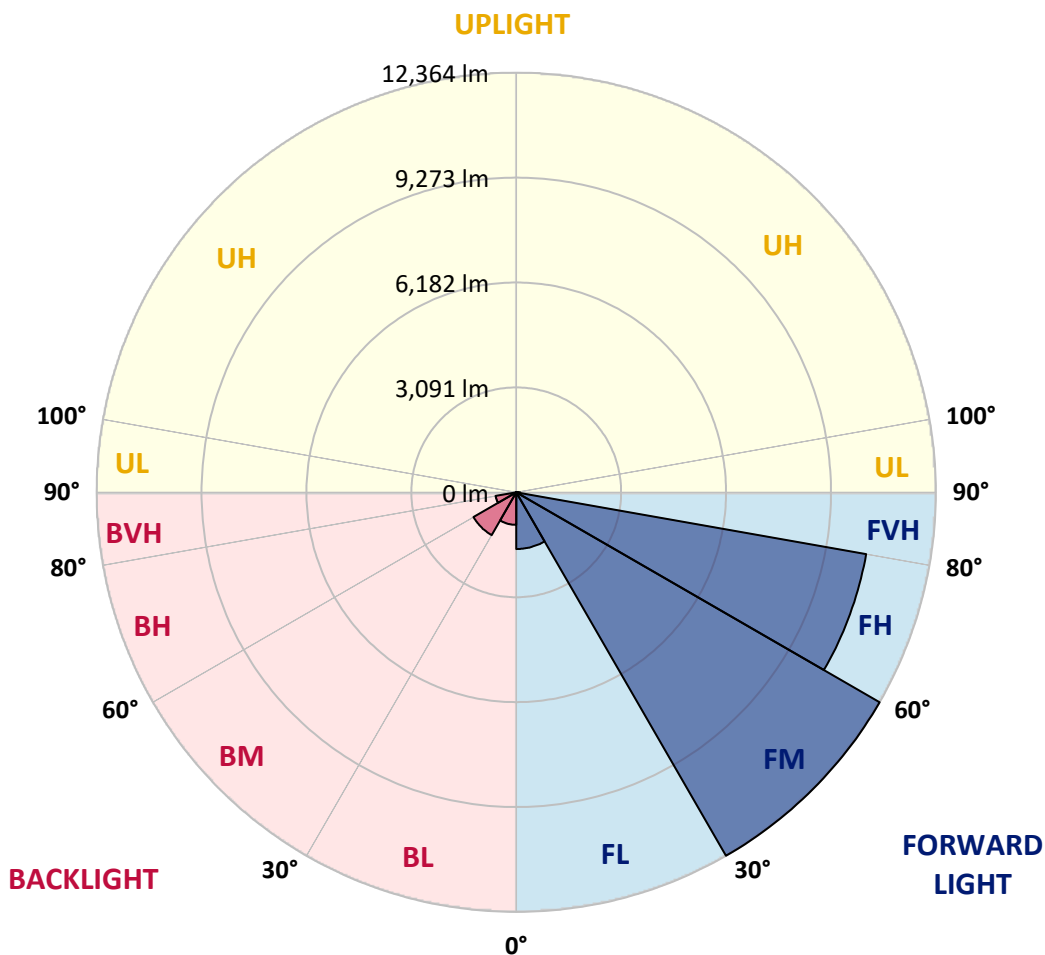


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.1	6.0			
FM (30°-60°)	12364.0	44.7			
FH (60°-80°)	10468.4	37.9			G4/12000
FVH (80°-90°)	112.8	0.4			G2/225
BL (0°-30°)	958.1	3.5	B2/1000		
BM (30°-60°)	1454.1	5.3	B2/2500		
BH (60°-80°)	617.4	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°	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3
2.5°	3208.2	3222.6	3233.0	3239.6	3247.4	3264.4	3269.6	3277.5	3281.4	3281.4	3290.5
5°	3081.4	3097.1	3119.3	3137.6	3174.2	3221.3	3255.2	3268.3	3291.8	3312.8	3324.5
7.5°	2963.7	2982.0	3008.2	3051.3	3114.1	3189.9	3260.5	3278.8	3324.5	3369.0	3391.2
10°	2887.9	2902.3	2936.3	2997.7	3080.1	3186.0	3285.3	3307.5	3386.0	3460.5	3502.3
12.5°	2861.7	2874.8	2910.1	2979.4	3081.4	3205.6	3342.8	3375.5	3490.6	3599.1	3657.9
15°	2899.7	2902.3	2940.2	3005.5	3106.2	3253.9	3438.3	3477.5	3622.6	3763.8	3837.0
17.5°	3046.1	3034.3	3053.9	3082.7	3162.4	3318.0	3538.9	3597.8	3791.2	3957.3	4026.6
20°	3412.1	3412.1	3367.7	3289.2	3290.5	3417.4	3674.9	3741.6	3978.2	4170.4	4233.1
22.5°	4038.3	4026.6	3937.7	3745.5	3569.0	3588.6	3840.9	3927.2	4203.1	4408.3	4429.2
25°	4791.4	4777.0	4639.7	4369.1	4063.2	3865.8	4065.8	4165.1	4471.1	4652.8	4609.6
27.5°	5588.8	5577.1	5441.1	5105.1	4669.8	4307.6	4333.8	4427.9	4744.3	4923.4	4786.1
30°	6361.5	6365.4	6230.7	5885.6	5392.7	4871.1	4673.7	4728.6	5009.7	5191.4	4995.3
32.5°	7096.2	7101.4	6985.0	6599.4	6139.2	5526.1	5144.3	5129.9	5318.2	5497.3	5272.4
35°	7751.1	7764.2	7684.5	7385.1	6897.5	6255.6	5754.9	5720.9	5756.2	5958.8	5697.3
37.5°	8382.6	8390.4	8330.3	8078.0	7670.1	7056.9	6526.2	6477.8	6402.0	6557.5	6258.2
40°	9074.2	9054.5	8985.3	8756.5	8406.1	7942.0	7355.0	7271.3	7139.3	7277.9	6995.5
42.5°	9717.4	9695.1	9706.9	9448.0	9152.6	8851.9	8321.1	8177.3	8100.2	8259.7	7900.2
45°	10521.4	10509.6	10548.8	10324.0	10084.7	9866.4	9428.4	9271.6	9237.6	9424.5	8994.4
47.5°	11314.9	11343.7	11465.3	11369.8	11273.1	11080.9	10601.1	10530.5	10551.4	10777.6	10148.8
50°	11976.4	12010.4	12343.8	12453.6	12593.5	12481.0	11999.9	11956.8	12039.2	12243.1	11390.7
52.5°	12454.9	12524.2	12938.6	13444.5	13954.4	14030.2	13550.4	13511.2	13622.3	13653.7	12350.3
55°	12787.0	12848.4	13317.7	14243.3	15281.3	15608.2	15310.1	15158.4	15137.5	14827.7	13359.6
57.5°	12845.8	12839.3	13513.8	14759.7	16322.0	17165.2	16976.9	16827.9	16399.1	15912.8	14516.6
60°	12513.7	12551.6	13334.7	14938.8	16975.6	18343.1	18357.5	18164.0	17495.9	16967.8	15638.2
62.5°	11491.4	11645.7	12436.6	14469.5	16967.8	18817.7	19369.3	19221.6	18422.8	17831.9	16775.6
65°	9833.7	9888.6	10642.9	12861.5	15821.3	18618.9	20280.6	20225.6	19258.2	18671.2	17360.0
67.5°	7181.1	7062.2	7854.4	10127.9	13394.9	17460.7	20934.2	21003.5	19902.7	18843.8	16737.7
68°	6553.6	6588.9	7206.0	9452.0	12759.5	17051.5	20977.4	21083.3	19966.8	18731.4	16397.8
70°	3906.3	3974.3	4524.7	6507.9	9706.9	14736.2	20512.0	20753.8	19585.1	17571.8	14183.2
72.5°	997.5	1078.5	1598.9	2912.7	5544.4	10382.8	17315.5	17724.7	17004.4	14255.1	9574.9
75°	410.5	431.4	571.3	959.6	2065.6	4677.6	11413.0	12288.9	11788.2	8534.2	4327.3
77.5°	283.7	298.1	367.4	532.1	894.2	1585.8	5595.4	6228.1	5611.0	2912.7	943.9
80°	203.9	215.7	262.8	354.3	513.8	566.1	1823.7	2108.7	1674.7	639.3	234.0
82.5°	121.6	130.7	196.1	252.3	312.5	270.6	453.6	515.1	485.0	317.7	104.6
85°	60.1	70.6	132.0	180.4	168.6	113.7	138.6	154.3	190.9	193.5	56.2
87.5°	3.9	7.8	77.1	108.5	47.1	26.1	40.5	49.7	68.0	95.4	23.5
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°	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3	3285.3
2.5°	3294.5	3295.8	3286.6	3282.7	3285.3	3269.6	3263.1	3265.7	3265.7	3269.6	3263.1
5°	3327.1	3327.1	3311.5	3290.5	3278.8	3248.7	3229.1	3223.9	3219.9	3217.3	3212.1
7.5°	3397.7	3389.9	3362.4	3316.7	3277.5	3212.1	3162.4	3136.3	3123.2	3118.0	3114.1
10°	3511.5	3497.1	3451.3	3366.4	3276.2	3159.8	3051.3	2974.2	2910.1	2884.0	2868.3
12.5°	3664.4	3643.5	3566.4	3425.2	3267.0	3052.6	2817.3	2591.1	2380.6	2294.4	2251.2
15°	3840.9	3810.9	3689.3	3474.9	3213.4	2810.8	2299.6	1903.5	1611.9	1502.1	1455.1
17.5°	4020.0	3980.8	3796.5	3506.2	3052.6	2310.0	1613.2	1218.4	1023.6	971.3	953.0
20°	4200.4	4142.9	3889.3	3482.7	2689.2	1665.5	1064.2	890.3	834.1	818.4	813.2
22.5°	4371.7	4282.8	3973.0	3391.2	2129.6	1117.8	841.9	787.0	768.7	759.6	756.9
25°	4520.7	4396.5	4046.2	3108.8	1507.3	844.5	758.2	739.9	716.4	699.4	700.7
27.5°	4660.6	4510.3	4090.6	2643.4	1005.3	721.6	702.0	677.2	634.1	609.2	609.2
30°	4829.3	4661.9	4123.3	2034.2	739.9	638.0	622.3	584.4	525.5	492.9	492.9
32.5°	5082.9	4892.0	4102.4	1427.6	613.1	560.8	524.2	471.9	407.9	376.5	375.2
35°	5471.2	5247.6	3953.4	936.0	541.2	487.6	428.8	364.7	308.5	282.4	281.1
37.5°	5994.1	5723.5	3618.7	669.4	485.0	419.7	349.1	278.5	236.6	219.6	218.3
40°	6672.6	6276.5	3140.2	542.5	432.7	354.3	269.3	215.7	186.9	173.9	175.2
42.5°	7487.1	6868.7	2566.3	468.0	381.7	291.5	210.5	170.0	151.6	142.5	139.9
45°	8391.7	7453.1	1964.9	417.0	330.8	235.3	164.7	134.7	120.3	115.0	115.0
47.5°	9386.6	8021.8	1438.1	372.6	275.8	181.7	132.0	109.8	98.0	94.1	92.8
50°	10290.0	8416.6	1036.7	325.5	226.2	143.8	107.2	91.5	83.7	78.4	78.4
52.5°	11043.0	8540.8	763.5	274.5	183.0	115.0	88.9	78.4	70.6	66.7	66.7
55°	11705.8	8489.8	567.4	226.2	147.7	94.1	75.8	66.7	60.1	56.2	56.2
57.5°	12341.2	8325.1	423.6	184.3	119.0	75.8	64.1	56.2	49.7	47.1	47.1
60°	12860.2	8050.5	315.1	149.0	95.4	61.4	53.6	45.8	40.5	36.6	36.6
62.5°	13281.1	7747.2	231.4	122.9	75.8	48.4	41.8	37.9	30.1	26.1	26.1
65°	13283.7	7243.9	173.9	102.0	58.8	37.9	31.4	30.1	19.6	15.7	14.4
67.5°	12322.9	6245.1	133.3	87.6	45.8	28.8	23.5	24.8	10.5	6.5	5.2
68°	11973.8	5991.5	125.5	86.3	43.1	27.5	22.2	24.8	9.2	5.2	3.9
70°	10095.2	4766.5	100.7	83.7	37.9	20.9	18.3	24.8	7.8	3.9	2.6
72.5°	6456.9	2766.3	74.5	66.7	28.8	15.7	11.8	22.2	7.8	2.6	1.3
75°	2748.0	857.6	51.0	47.1	17.0	11.8	7.8	14.4	5.2	1.3	0.0
77.5°	579.1	193.5	30.1	28.8	11.8	7.8	5.2	3.9	1.3	0.0	0.0
80°	149.0	56.2	15.7	14.4	6.5	3.9	2.6	0.0	0.0	0.0	0.0
82.5°	47.1	22.2	9.2	6.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.5	13.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	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)