

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: P322233

Luminaire Tested: **GAN-SA9A-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322233
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 30360 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

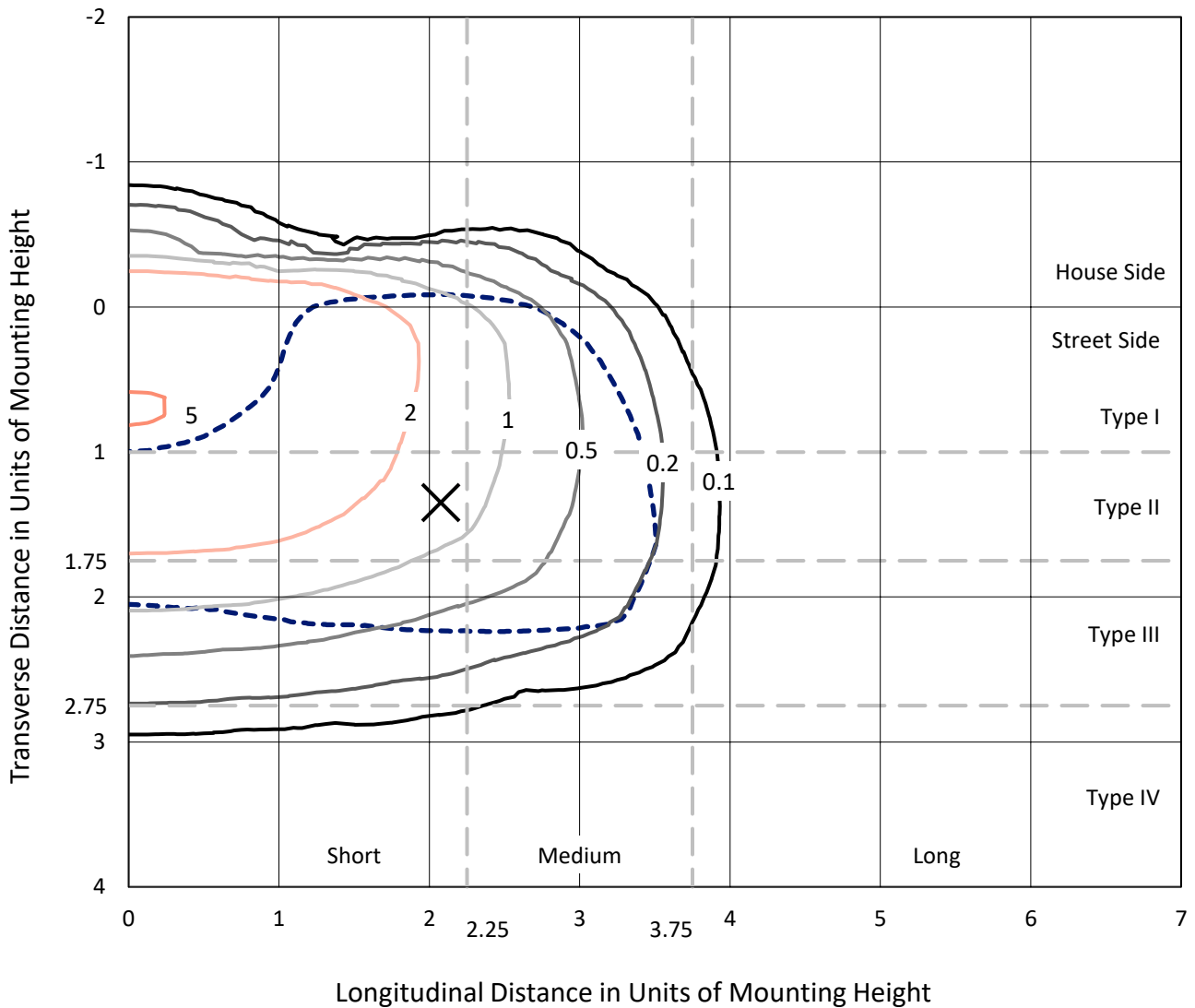
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

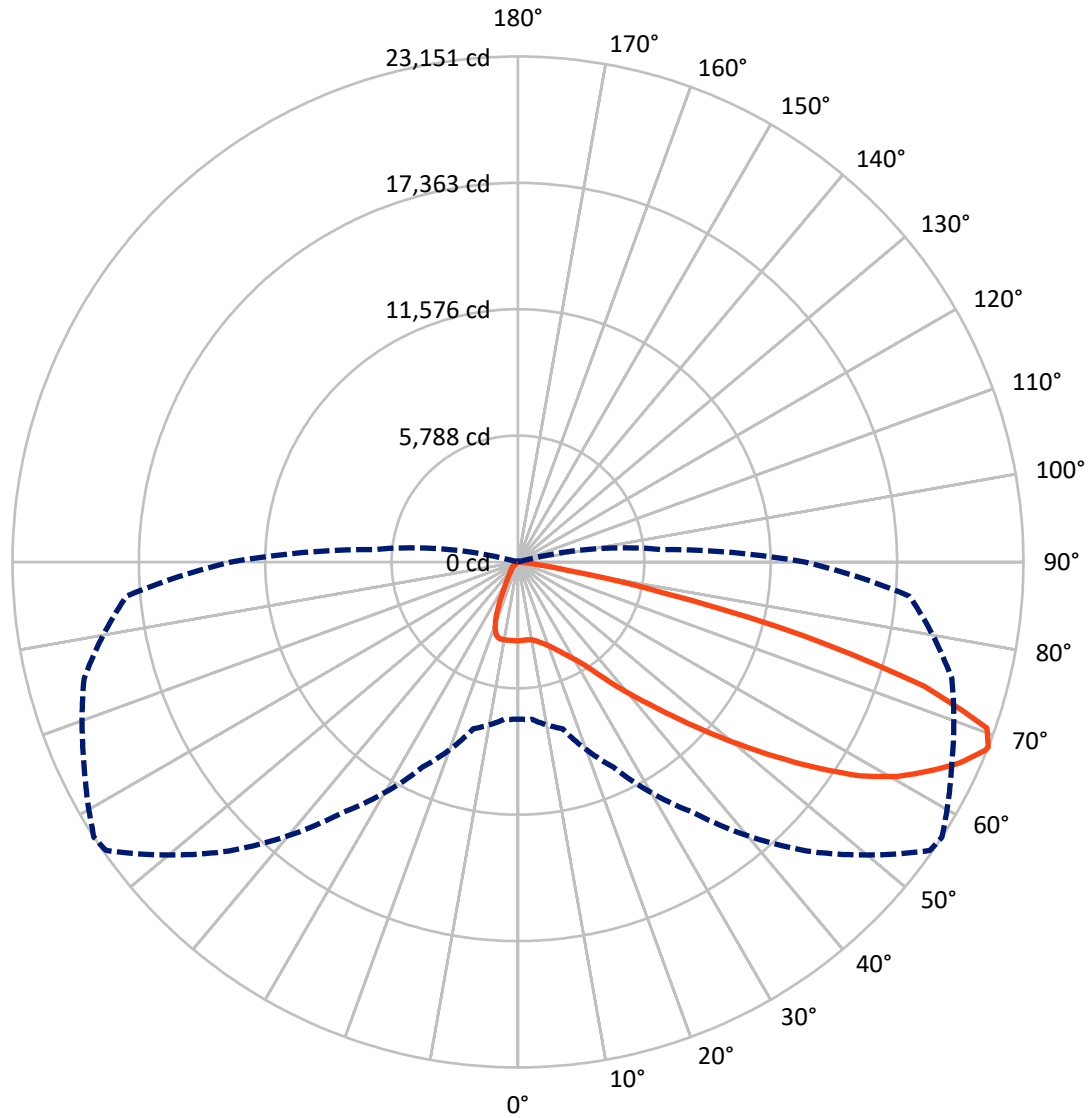
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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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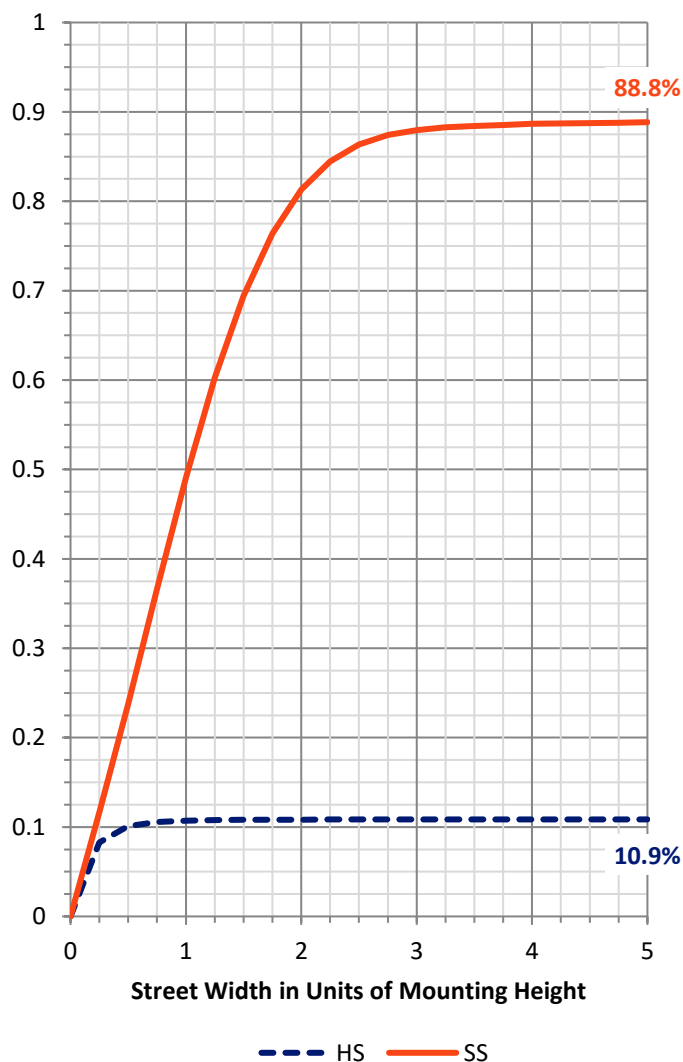
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.1	0.0	3329.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27030.8	0.0	27030.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	30360.0	0.0	30360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.1
10°-20°	935.6	3.1
20°-30°	1613.9	5.3
30°-40°	2785.6	9.2
40°-50°	4764.8	15.7
50°-60°	7623.2	25.1
60°-70°	8807.7	29.0
70°-80°	3365.6	11.1
80°-90°	126.2	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°	30360.0	100.0
0°-180°	30360.0	100.0

Coefficient of Utilization



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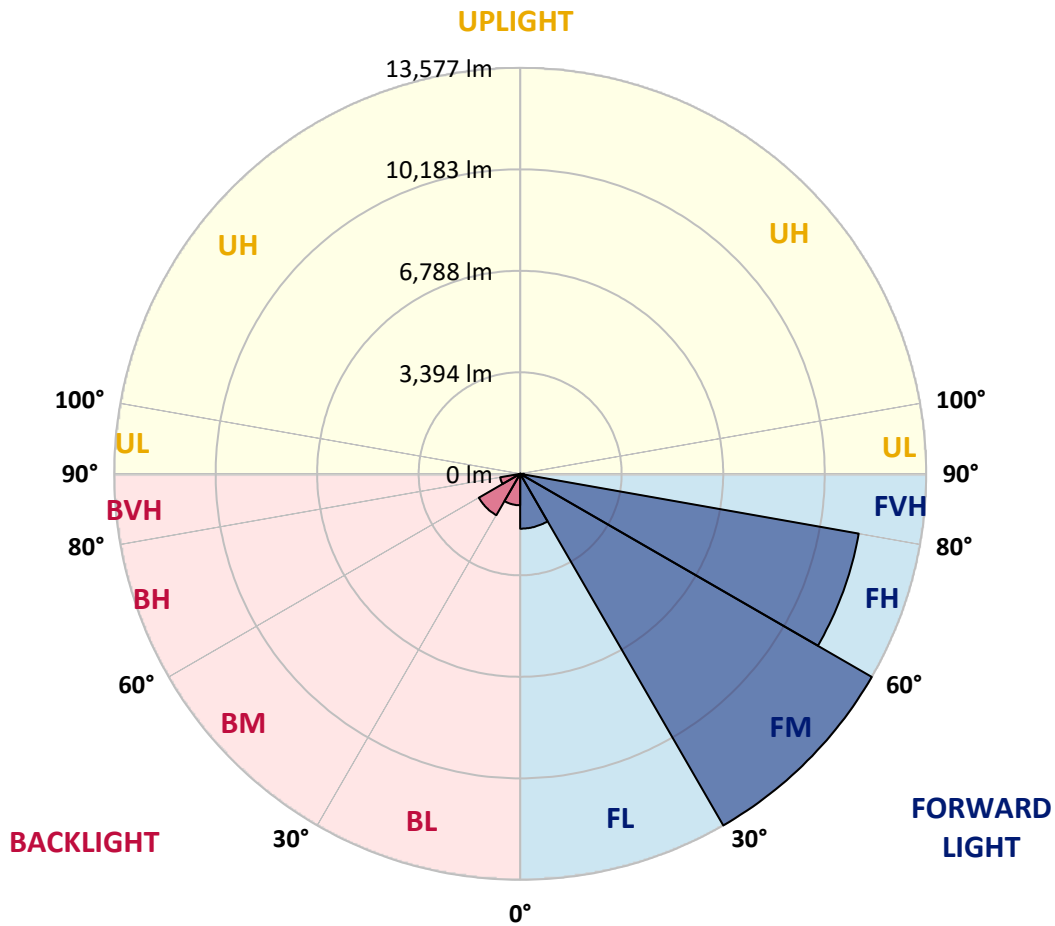
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.0	6.0			
FM (30°-60°)	13576.7	44.7			
FH (60°-80°)	11495.3	37.9			G4/12000
FVH (80°-90°)	123.9	0.4			G2/225
BL (0°-30°)	1052.1	3.5	B3/2500		
BM (30°-60°)	1596.7	5.3	B2/2500		
BH (60°-80°)	678.0	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6
2.5°	3522.9	3538.7	3550.1	3557.3	3565.9	3584.6	3590.3	3599.0	3603.3	3603.3	3613.3
5°	3383.6	3400.8	3425.3	3445.3	3485.5	3537.2	3574.6	3588.9	3614.7	3637.7	3650.6
7.5°	3254.4	3274.5	3303.2	3350.6	3419.5	3502.8	3580.3	3600.4	3650.6	3699.4	3723.8
10°	3171.2	3186.9	3224.3	3291.7	3382.2	3498.5	3607.6	3632.0	3718.1	3799.9	3845.9
12.5°	3142.4	3156.8	3195.6	3271.6	3383.6	3520.0	3670.7	3706.6	3833.0	3952.1	4016.7
15°	3184.1	3186.9	3228.6	3300.4	3410.9	3573.1	3775.5	3818.6	3977.9	4133.0	4213.4
17.5°	3344.9	3331.9	3353.5	3385.1	3472.6	3643.5	3886.1	3950.7	4163.1	4345.4	4421.5
20°	3746.8	3746.8	3698.0	3611.9	3613.3	3752.6	4035.4	4108.6	4368.4	4579.4	4648.4
22.5°	4434.5	4421.5	4323.9	4112.9	3919.1	3940.6	4217.7	4312.4	4615.3	4840.7	4863.7
25°	5261.3	5245.5	5094.8	4797.6	4461.7	4245.0	4464.6	4573.7	4909.6	5109.2	5061.8
27.5°	6137.0	6124.1	5974.8	5605.9	5127.8	4730.2	4758.9	4862.3	5209.7	5406.3	5255.6
30°	6985.4	6989.8	6841.9	6462.9	5921.7	5348.9	5132.1	5192.4	5501.1	5700.6	5485.3
32.5°	7792.2	7798.0	7670.2	7246.7	6741.4	6068.1	5648.9	5633.1	5839.9	6036.5	5789.6
35°	8511.4	8525.8	8438.2	8109.5	7574.0	6869.2	6319.3	6282.0	6320.8	6543.3	6256.2
37.5°	9204.8	9213.4	9147.4	8870.3	8422.4	7749.2	7166.3	7113.2	7029.9	7200.8	6872.0
40°	9964.2	9942.7	9866.6	9615.4	9230.7	8721.0	8076.5	7984.6	7839.6	7991.8	7681.7
42.5°	10670.5	10646.1	10659.1	10374.8	10050.4	9720.2	9137.4	8979.4	8894.7	9069.9	8675.1
45°	11553.4	11540.5	11583.6	11336.6	11073.9	10834.2	10353.3	10181.0	10143.7	10349.0	9876.7
47.5°	12424.8	12456.4	12589.9	12485.1	12378.9	12167.8	11641.0	11563.5	11586.4	11834.8	11144.3
50°	13151.2	13188.5	13554.6	13675.2	13828.8	13705.3	13177.0	13129.7	13220.1	13444.0	12508.1
52.5°	13676.6	13752.7	14207.8	14763.3	15323.2	15406.5	14879.6	14836.5	14958.6	14993.0	13561.8
55°	14041.2	14108.7	14624.1	15640.5	16780.3	17139.2	16811.9	16645.3	16622.4	16282.1	14670.0
57.5°	14105.8	14098.7	14839.4	16207.5	17923.0	18848.9	18642.2	18478.6	18007.7	17473.7	15940.5
60°	13741.2	13782.8	14642.7	16404.2	18640.8	20142.4	20158.2	19945.7	19212.1	18632.2	17172.2
62.5°	12618.6	12788.0	13656.5	15888.8	18632.2	20663.5	21269.3	21107.1	20229.9	19581.1	18421.1
65°	10798.3	10858.6	11686.9	14123.1	17373.2	20445.3	22269.9	22209.6	21147.3	20502.7	19062.8
67.5°	7885.5	7754.9	8624.9	11121.3	14708.8	19173.4	22987.7	23063.7	21855.0	20692.2	18379.5
68°	7196.5	7235.2	7912.8	10379.1	14011.1	18724.0	23035.0	23151.3	21925.3	20568.7	18006.3
70°	4289.5	4364.1	4968.5	7146.2	10659.1	16181.7	22524.0	22789.6	21506.2	19295.4	15574.4
72.5°	1095.3	1184.3	1755.7	3198.4	6088.2	11401.2	19014.0	19463.4	18672.4	15653.4	10514.1
75°	450.8	473.7	627.3	1053.7	2268.2	5136.4	12532.5	13494.3	12944.5	9371.4	4751.7
77.5°	311.5	327.3	403.4	584.3	981.9	1741.3	6144.2	6839.0	6161.4	3198.4	1036.5
80°	223.9	236.9	288.5	389.0	564.2	621.6	2002.6	2315.6	1839.0	702.0	257.0
82.5°	133.5	143.6	215.3	277.1	343.1	297.2	498.1	565.6	532.6	348.8	114.8
85°	66.0	77.5	145.0	198.1	185.2	124.9	152.2	169.4	209.6	212.5	61.7
87.5°	4.3	8.6	84.7	119.2	51.7	28.7	44.5	54.6	74.6	104.8	25.8
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°	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6	3607.6
2.5°	3617.6	3619.1	3609.0	3604.7	3607.6	3590.3	3583.2	3586.0	3586.0	3590.3	3583.2
5°	3653.5	3653.5	3636.3	3613.3	3600.4	3567.4	3545.8	3540.1	3535.8	3532.9	3527.2
7.5°	3731.0	3722.4	3692.3	3642.0	3599.0	3527.2	3472.6	3443.9	3429.6	3423.8	3419.5
10°	3855.9	3840.1	3789.9	3696.6	3597.5	3469.8	3350.6	3265.9	3195.6	3166.9	3149.6
12.5°	4023.9	4000.9	3916.2	3761.2	3587.5	3352.0	3093.6	2845.3	2614.2	2519.4	2472.0
15°	4217.7	4184.7	4051.2	3815.7	3528.6	3086.5	2525.2	2090.2	1770.0	1649.5	1597.8
17.5°	4414.4	4371.3	4168.9	3850.2	3352.0	2536.6	1771.5	1337.9	1124.0	1066.6	1046.5
20°	4612.5	4549.3	4270.8	3824.3	2953.0	1828.9	1168.5	977.6	915.9	898.7	892.9
22.5°	4800.5	4702.9	4362.7	3723.8	2338.5	1227.4	924.5	864.2	844.1	834.1	831.2
25°	4964.2	4827.8	4443.1	3413.8	1655.2	927.4	832.6	812.5	786.7	768.0	769.5
27.5°	5117.8	4952.7	4491.9	2902.7	1103.9	792.4	770.9	743.6	696.2	669.0	669.0
30°	5303.0	5119.2	4527.8	2233.7	812.5	700.6	683.3	641.7	577.1	541.2	541.2
32.5°	5581.5	5371.9	4504.8	1567.6	673.3	615.9	575.7	518.2	447.9	413.4	412.0
35°	6007.8	5762.3	4341.1	1027.9	594.3	535.5	470.9	400.5	338.8	310.1	308.6
37.5°	6582.1	6284.9	3973.6	735.0	532.6	460.8	383.3	305.8	259.8	241.2	239.7
40°	7327.1	6892.1	3448.2	595.8	475.2	389.0	295.7	236.9	205.3	190.9	192.4
42.5°	8221.5	7542.4	2818.0	513.9	419.2	320.1	231.1	186.6	166.5	156.5	153.6
45°	9214.9	8184.1	2157.7	457.9	363.2	258.4	180.9	147.9	132.1	126.3	126.3
47.5°	10307.3	8808.6	1579.1	409.1	302.9	199.5	145.0	120.6	107.7	103.4	101.9
50°	11299.3	9242.2	1138.4	357.5	248.4	157.9	117.7	100.5	91.9	86.1	86.1
52.5°	12126.2	9378.5	838.4	301.5	201.0	126.3	97.6	86.1	77.5	73.2	73.2
55°	12854.0	9322.5	623.0	248.4	162.2	103.4	83.3	73.2	66.0	61.7	61.7
57.5°	13551.7	9141.7	465.1	202.4	130.6	83.3	70.3	61.7	54.6	51.7	51.7
60°	14121.6	8840.2	346.0	163.7	104.8	67.5	58.9	50.2	44.5	40.2	40.2
62.5°	14583.9	8507.1	254.1	134.9	83.3	53.1	45.9	41.6	33.0	28.7	28.7
65°	14586.8	7954.5	190.9	112.0	64.6	41.6	34.5	33.0	21.5	17.2	15.8
67.5°	13531.6	6857.7	146.4	96.2	50.2	31.6	25.8	27.3	11.5	7.2	5.7
68°	13148.3	6579.2	137.8	94.7	47.4	30.1	24.4	27.3	10.0	5.7	4.3
70°	11085.4	5234.1	110.5	91.9	41.6	23.0	20.1	27.3	8.6	4.3	2.9
72.5°	7090.2	3037.7	81.8	73.2	31.6	17.2	12.9	24.4	8.6	2.9	1.4
75°	3017.6	941.7	56.0	51.7	18.7	12.9	8.6	15.8	5.7	1.4	0.0
77.5°	636.0	212.5	33.0	31.6	12.9	8.6	5.7	4.3	1.4	0.0	0.0
80°	163.7	61.7	17.2	15.8	7.2	4.3	2.9	0.0	0.0	0.0	0.0
82.5°	51.7	24.4	10.0	7.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.8	14.4	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.4	4.3	1.4	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)