

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: P322372

Luminaire Tested: **GAN-SA8C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322372
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-SA8C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 30367 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 445
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

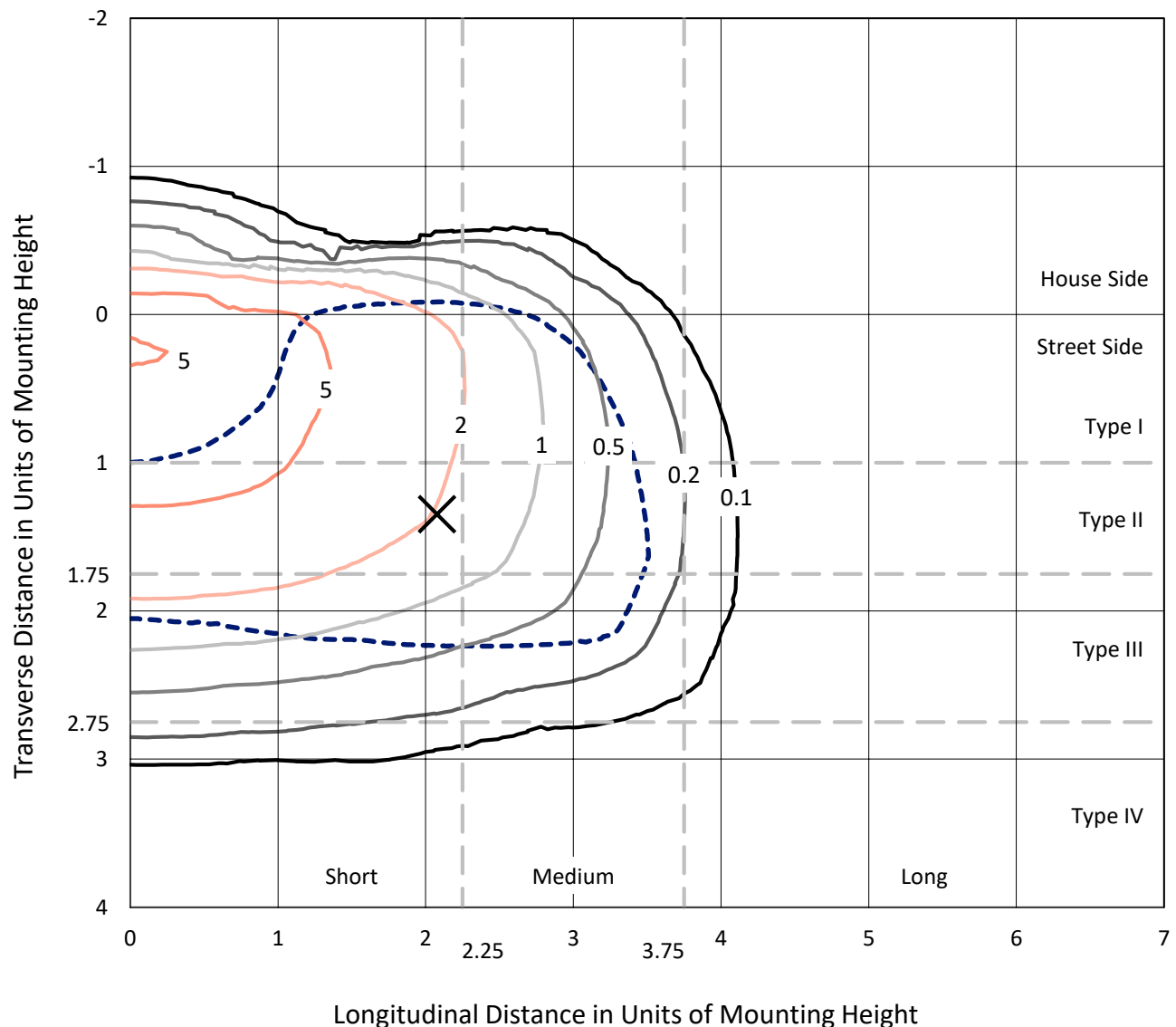


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Iso-Footcandle Lines of Horizontal Illumination

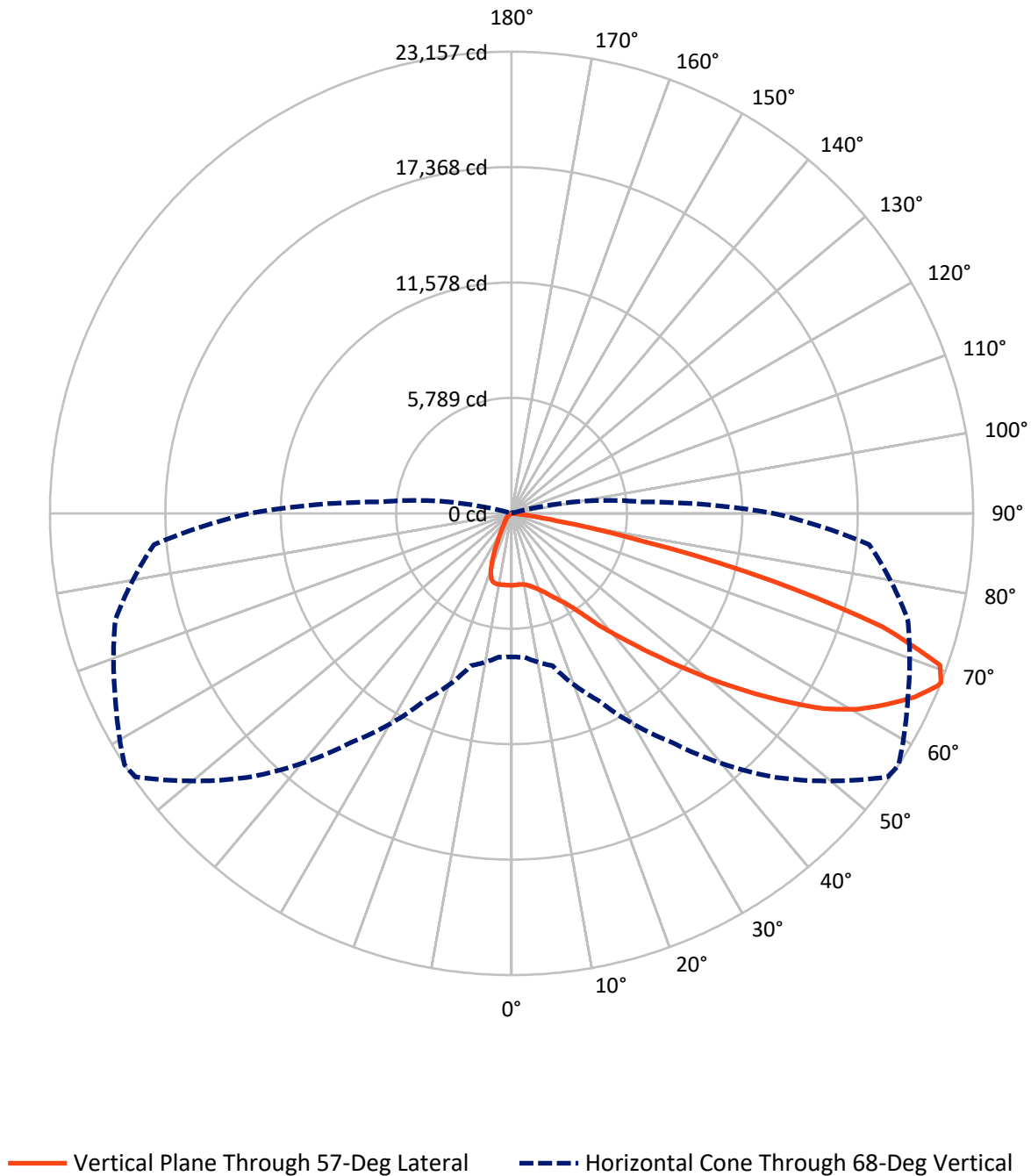
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3329.9	0.0	3329.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27037.1	0.0	27037.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	30367.0	0.0	30367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.7	1.1
10°-20°	935.8	3.1
20°-30°	1614.3	5.3
30°-40°	2786.2	9.2
40°-50°	4765.9	15.7
50°-60°	7624.9	25.1
60°-70°	8809.8	29.0
70°-80°	3366.3	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°	30367.0	100.0
0°-180°	30367.0	100.0

Coefficient of Utilization



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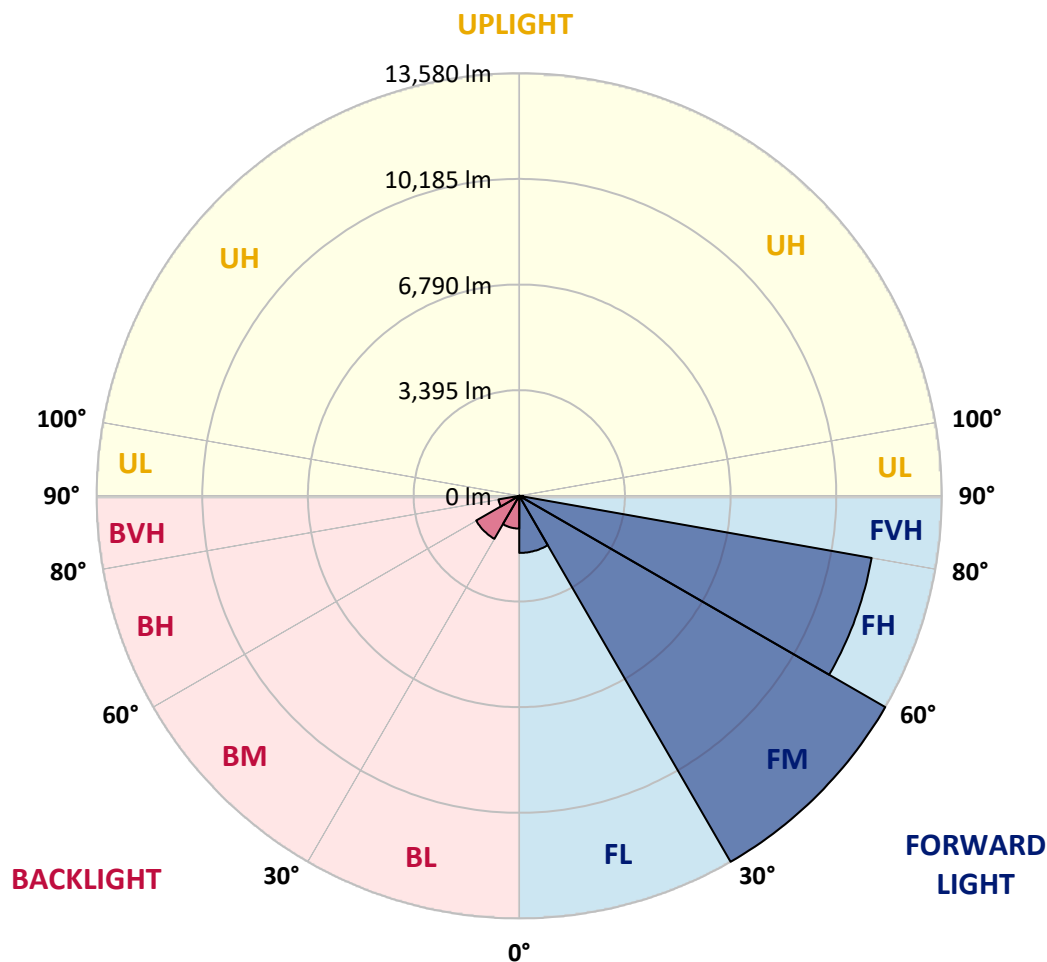
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.4	6.0			
FM	(30°-60°)	13579.9	44.7			
FH	(60°-80°)	11497.9	37.9			G4/12000
FVH	(80°-90°)	123.9	0.4			G2/225
BL	(0°-30°)	1052.4	3.5	B3/2500		
BM	(30°-60°)	1597.1	5.3	B2/2500		
BH	(60°-80°)	678.2	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°	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4
2.5°	3523.7	3539.5	3551.0	3558.1	3566.8	3585.4	3591.2	3599.8	3604.1	3604.1	3614.1
5°	3384.4	3401.6	3426.0	3446.1	3486.3	3538.0	3575.4	3589.7	3615.6	3638.6	3651.5
7.5°	3255.2	3275.3	3304.0	3351.4	3420.3	3503.6	3581.1	3601.2	3651.5	3700.3	3724.7
10°	3171.9	3187.7	3225.0	3292.5	3383.0	3499.3	3608.4	3632.8	3719.0	3800.8	3846.8
12.5°	3143.2	3157.5	3196.3	3272.4	3384.4	3520.8	3671.6	3707.5	3833.8	3953.0	4017.6
15°	3184.8	3187.7	3229.3	3301.1	3411.7	3573.9	3776.4	3819.5	3978.9	4133.9	4214.3
17.5°	3345.6	3332.7	3354.2	3385.8	3473.4	3644.3	3887.0	3951.6	4164.1	4346.4	4422.6
20°	3747.7	3747.7	3698.9	3612.7	3614.1	3753.4	4036.3	4109.5	4369.4	4580.5	4649.4
22.5°	4435.5	4422.6	4324.9	4113.8	3920.0	3941.5	4218.7	4313.4	4616.4	4841.8	4864.8
25°	5262.5	5246.8	5096.0	4798.8	4462.8	4245.9	4465.6	4574.8	4910.8	5110.3	5063.0
27.5°	6138.4	6125.5	5976.2	5607.2	5129.0	4731.3	4760.0	4863.4	5210.9	5407.6	5256.8
30°	6987.1	6991.4	6843.5	6464.4	5923.1	5350.1	5133.3	5193.6	5502.3	5701.9	5486.5
32.5°	7794.0	7799.8	7672.0	7248.4	6743.0	6069.5	5650.2	5634.4	5841.2	6037.9	5791.0
35°	8513.4	8527.8	8440.2	8111.4	7575.8	6870.8	6320.8	6283.5	6322.2	6544.8	6257.6
37.5°	9206.9	9215.6	9149.5	8872.4	8424.4	7751.0	7168.0	7114.9	7031.6	7202.4	6873.6
40°	9966.5	9945.0	9868.9	9617.6	9232.8	8723.1	8078.3	7986.4	7841.4	7993.6	7683.5
42.5°	10673.0	10648.6	10661.5	10377.2	10052.7	9722.4	9139.5	8981.5	8896.8	9072.0	8677.1
45°	11556.1	11543.1	11586.2	11339.3	11076.5	10836.7	10355.7	10183.4	10146.0	10351.4	9878.9
47.5°	12427.7	12459.2	12592.8	12488.0	12381.7	12170.6	11643.7	11566.1	11589.1	11837.5	11146.8
50°	13154.2	13191.6	13557.7	13678.3	13832.0	13708.5	13180.1	13132.7	13223.1	13447.1	12510.9
52.5°	13679.8	13755.9	14211.0	14766.7	15326.7	15410.0	14883.0	14840.0	14962.0	14996.5	13564.9
55°	14044.5	14112.0	14627.4	15644.1	16784.2	17143.1	16815.7	16649.2	16626.2	16285.9	14673.4
57.5°	14109.1	14101.9	14842.8	16211.2	17927.1	18853.3	18646.5	18482.8	18011.8	17477.7	15944.2
60°	13744.4	13786.0	14646.1	16408.0	18645.1	20147.0	20162.8	19950.3	19216.6	18636.5	17176.2
62.5°	12621.5	12790.9	13659.7	15892.5	18636.5	20668.3	21274.2	21111.9	20234.6	19585.6	18425.4
65°	10800.8	10861.1	11689.6	14126.3	17377.2	20450.0	22275.0	22214.7	21152.1	20507.4	19067.2
67.5°	7887.4	7756.7	8626.8	11123.9	14712.2	19177.8	22993.0	23069.1	21860.0	20697.0	18383.7
68°	7198.1	7236.9	7914.6	10381.5	14014.3	18728.4	23040.3	23156.7	21930.4	20573.5	18010.4
70°	4290.4	4365.1	4969.6	7147.9	10661.5	16185.4	22529.2	22794.8	21511.1	19299.8	15578.0
72.5°	1095.6	1184.6	1756.1	3199.2	6089.6	11403.9	19018.4	19467.8	18676.7	15657.0	10516.5
75°	450.9	473.8	627.5	1053.9	2268.7	5137.6	12535.3	13497.4	12947.5	9373.5	4752.8
77.5°	311.6	327.4	403.5	584.4	982.2	1741.7	6145.6	6840.6	6162.9	3199.2	1036.7
80°	224.0	236.9	288.6	389.1	564.3	621.7	2003.1	2316.1	1839.4	702.2	257.0
82.5°	133.5	143.6	215.4	277.1	343.2	297.2	498.3	565.7	532.7	348.9	114.9
85°	66.1	77.5	145.0	198.2	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	74.7	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°	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4	3608.4
2.5°	3618.5	3619.9	3609.8	3605.5	3608.4	3591.2	3584.0	3586.9	3586.9	3591.2	3584.0
5°	3654.3	3654.3	3637.1	3614.1	3601.2	3568.2	3546.7	3540.9	3536.6	3533.7	3528.0
7.5°	3731.9	3723.3	3693.1	3642.9	3599.8	3528.0	3473.4	3444.7	3430.3	3424.6	3420.3
10°	3856.8	3841.0	3790.8	3697.4	3598.3	3470.6	3351.4	3266.7	3196.3	3167.6	3150.4
12.5°	4024.8	4001.8	3917.1	3762.0	3588.3	3352.8	3094.4	2845.9	2614.8	2520.0	2472.6
15°	4218.7	4185.6	4052.1	3816.6	3529.4	3087.2	2525.7	2090.7	1770.5	1649.8	1598.1
17.5°	4415.4	4372.3	4169.8	3851.1	3352.8	2537.2	1771.9	1338.3	1124.3	1066.9	1046.8
20°	4613.5	4550.3	4271.8	3825.2	2953.6	1829.3	1168.8	977.8	916.1	898.9	893.1
22.5°	4801.6	4704.0	4363.7	3724.7	2339.1	1227.7	924.7	864.4	844.3	834.3	831.4
25°	4965.3	4828.9	4444.1	3414.6	1655.6	927.6	832.8	812.7	786.9	768.2	769.6
27.5°	5119.0	4953.8	4492.9	2903.4	1104.2	792.6	771.1	743.8	696.4	669.1	669.1
30°	5304.2	5120.4	4528.8	2234.3	812.7	700.7	683.5	641.8	577.2	541.3	541.3
32.5°	5582.8	5373.1	4505.8	1568.0	673.4	616.0	575.8	518.4	448.0	413.5	412.1
35°	6009.2	5763.7	4342.1	1028.1	594.5	535.6	471.0	400.6	338.9	310.2	308.7
37.5°	6583.6	6286.3	3974.6	735.2	532.7	460.9	383.4	305.8	259.9	241.2	239.8
40°	7328.8	6893.7	3449.0	595.9	475.3	389.1	295.8	236.9	205.3	191.0	192.4
42.5°	8223.4	7544.2	2818.7	514.0	419.3	320.2	231.2	186.7	166.6	156.5	153.6
45°	9217.0	8186.0	2158.1	458.1	363.3	258.5	180.9	147.9	132.1	126.4	126.4
47.5°	10309.7	8810.6	1579.5	409.2	303.0	199.6	145.0	120.6	107.7	103.4	101.9
50°	11301.9	9244.3	1138.7	357.5	248.4	157.9	117.7	100.5	91.9	86.2	86.2
52.5°	12129.0	9380.7	838.6	301.5	201.0	126.4	97.6	86.2	77.5	73.2	73.2
55°	12857.0	9324.7	623.2	248.4	162.3	103.4	83.3	73.2	66.1	61.7	61.7
57.5°	13554.8	9143.8	465.2	202.5	130.7	83.3	70.4	61.7	54.6	51.7	51.7
60°	14124.9	8842.2	346.1	163.7	104.8	67.5	58.9	50.3	44.5	40.2	40.2
62.5°	14587.2	8509.1	254.2	135.0	83.3	53.1	45.9	41.6	33.0	28.7	28.7
65°	14590.1	7956.3	191.0	112.0	64.6	41.6	34.5	33.0	21.5	17.2	15.8
67.5°	13534.7	6859.3	146.5	96.2	50.3	31.6	25.8	27.3	11.5	7.2	5.7
68°	13151.3	6580.7	137.8	94.8	47.4	30.2	24.4	27.3	10.1	5.7	4.3
70°	11088.0	5235.3	110.6	91.9	41.6	23.0	20.1	27.3	8.6	4.3	2.9
72.5°	7091.9	3038.4	81.8	73.2	31.6	17.2	12.9	24.4	8.6	2.9	1.4
75°	3018.2	941.9	56.0	51.7	18.7	12.9	8.6	15.8	5.7	1.4	0.0
77.5°	636.1	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	10.1	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)