

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: P382618

Luminaire Tested: **GAN-SA0A-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382618
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-SA0A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 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: 31313 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

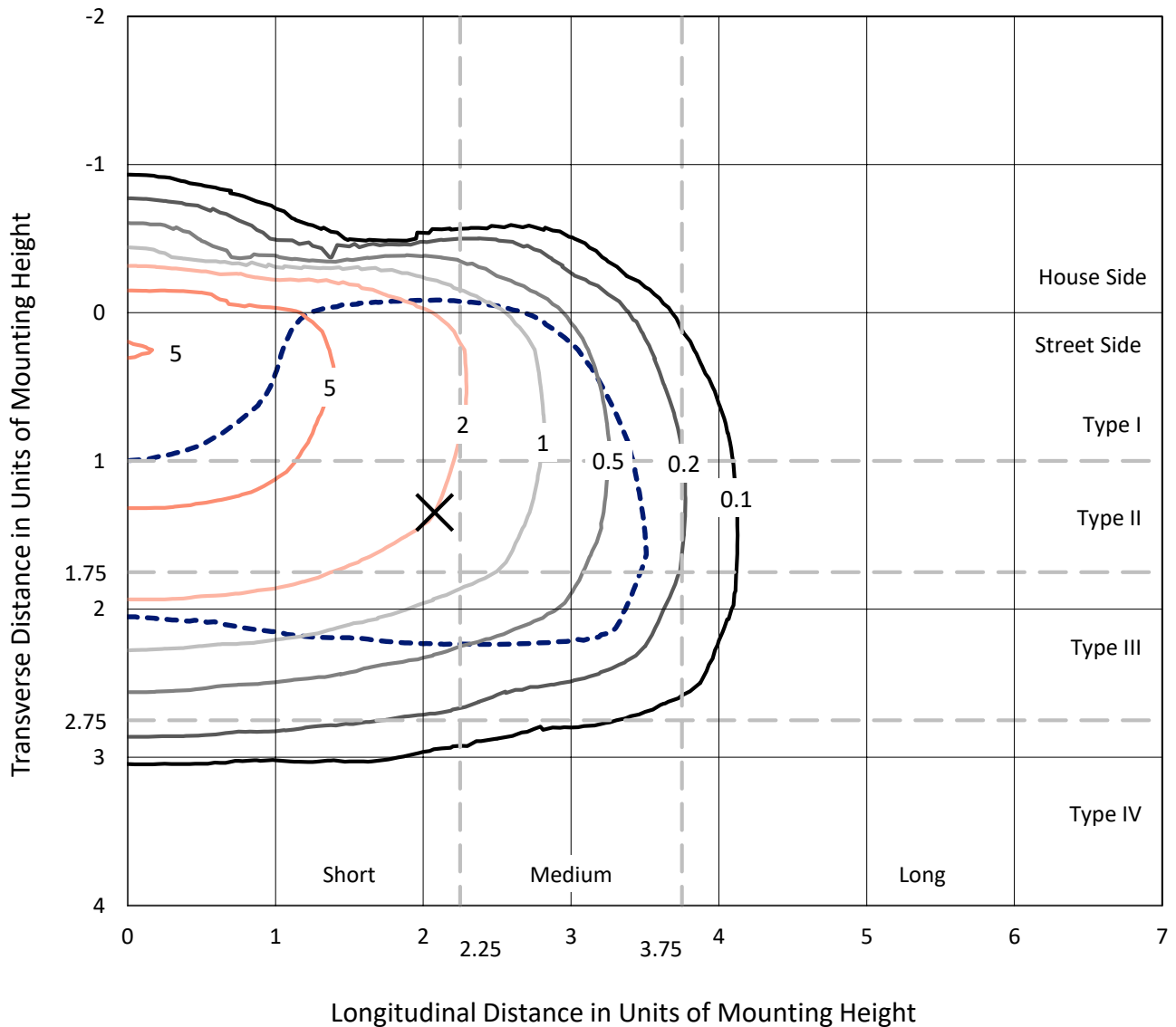
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

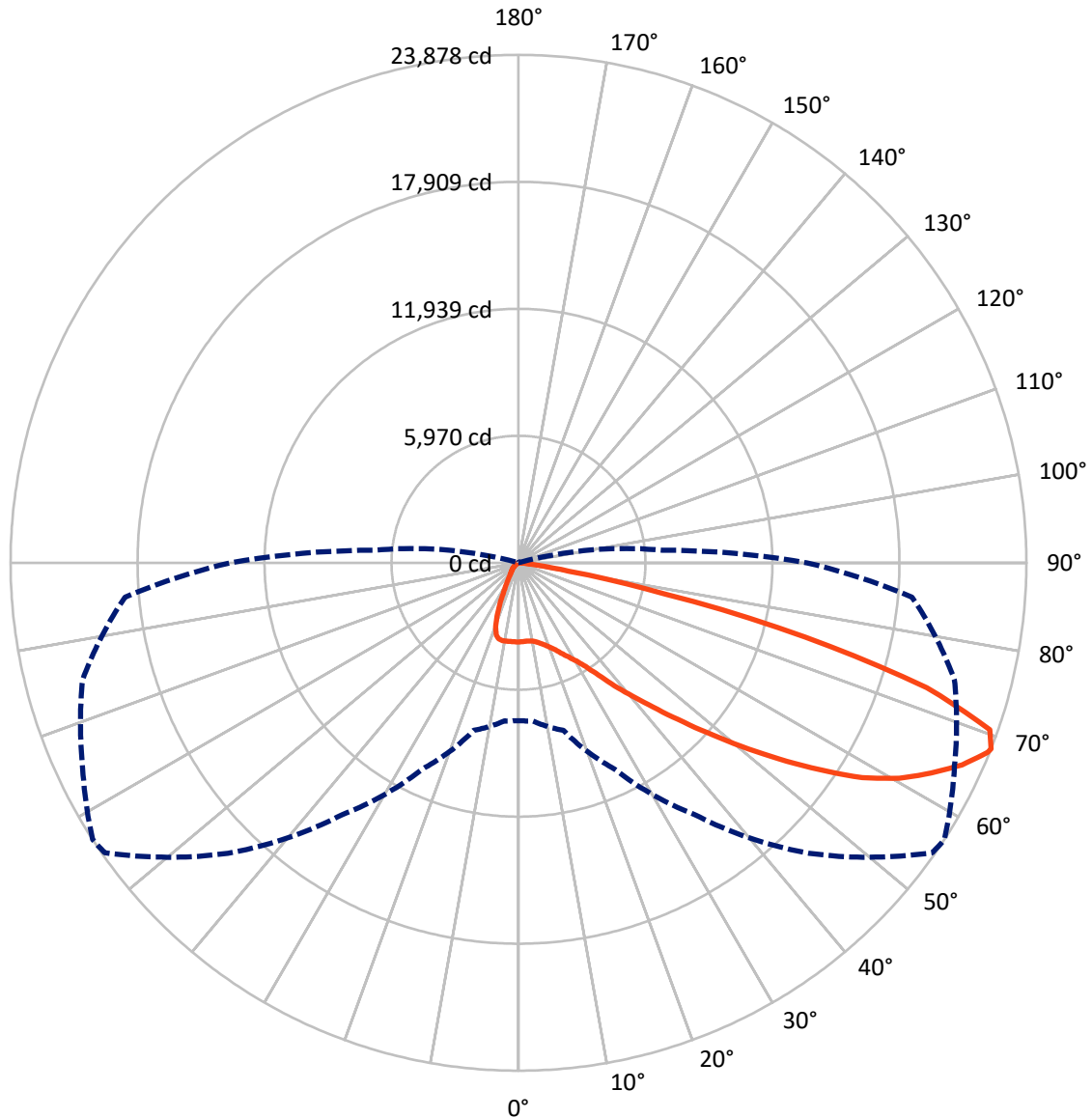
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3433.7	0.0	3433.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	27879.4	0.0	27879.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	31313.0	0.0	31313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.1
10°-20°	964.9	3.1
20°-30°	1664.6	5.3
30°-40°	2873.0	9.2
40°-50°	4914.3	15.7
50°-60°	7862.5	25.1
60°-70°	9084.2	29.0
70°-80°	3471.2	11.1
80°-90°	130.1	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°	31313.0	100.0
0°-180°	31313.0	100.0

Coefficient of Utilization



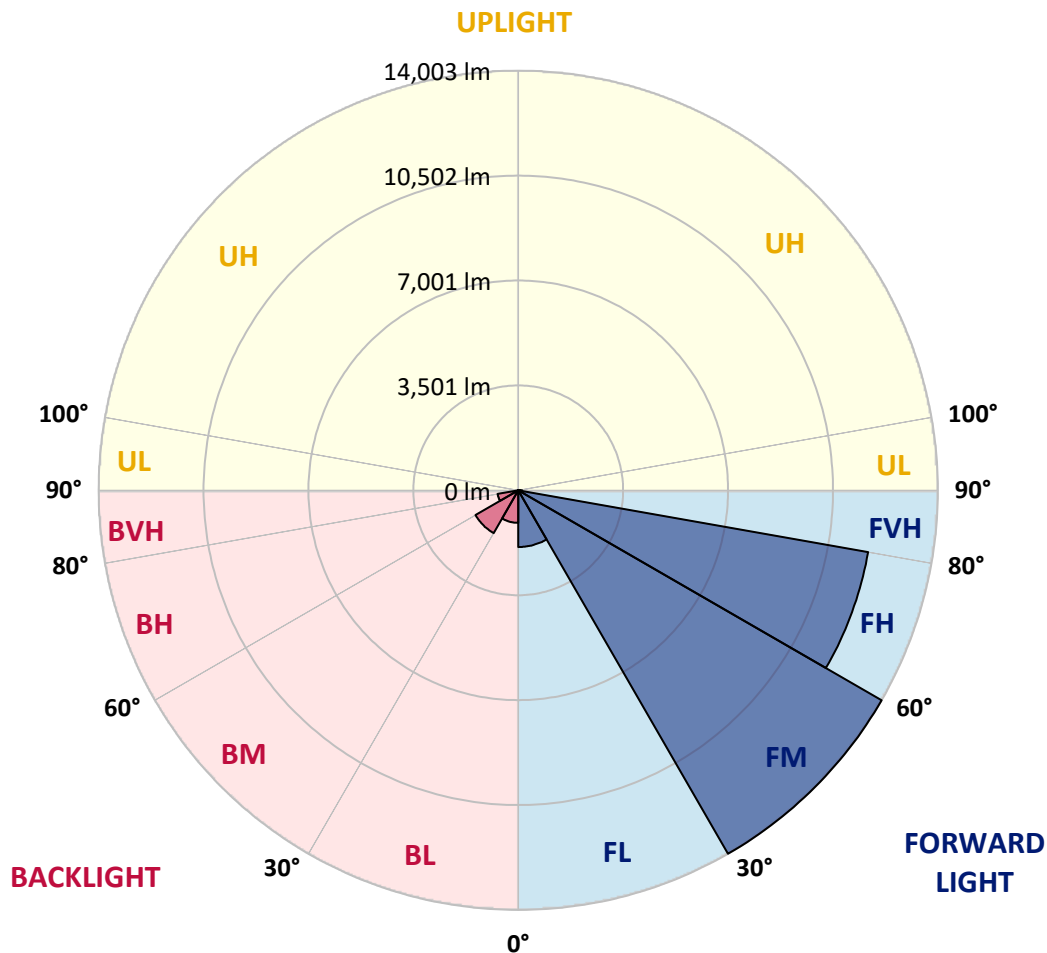
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.6	6.0			
FM (30°-60°)	14002.9	44.7			
FH (60°-80°)	11856.1	37.9			G4/12000
FVH (80°-90°)	127.7	0.4			G2/225
BL (0°-30°)	1085.1	3.5	B3/2500		
BM (30°-60°)	1646.8	5.3	B2/2500		
BH (60°-80°)	699.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.4	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°	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8
2.5°	3633.5	3649.7	3661.6	3669.0	3677.8	3697.1	3703.1	3711.9	3716.4	3716.4	3726.7
5°	3489.9	3507.6	3532.8	3553.5	3594.9	3648.2	3686.8	3701.6	3728.2	3751.9	3765.2
7.5°	3356.6	3377.3	3406.9	3455.8	3526.8	3612.7	3692.7	3713.4	3765.2	3815.6	3840.8
10°	3270.7	3287.0	3325.5	3395.1	3488.4	3608.3	3720.8	3745.9	3834.8	3919.2	3966.6
12.5°	3241.1	3255.9	3295.9	3374.3	3489.9	3630.5	3786.0	3823.0	3953.3	4076.2	4142.8
15°	3284.0	3287.0	3329.9	3404.0	3518.0	3685.3	3894.1	3938.5	4102.8	4262.8	4345.7
17.5°	3449.9	3436.6	3458.7	3491.3	3581.6	3757.9	4008.1	4074.7	4293.8	4481.9	4560.3
20°	3864.4	3864.4	3814.1	3725.3	3726.7	3870.4	4162.1	4237.5	4505.5	4723.2	4794.3
22.5°	4573.6	4560.3	4459.7	4242.0	4042.1	4064.3	4350.0	4447.8	4760.2	4992.6	5016.4
25°	5426.5	5410.2	5254.8	4948.3	4601.8	4378.2	4604.7	4717.3	5063.7	5269.6	5220.7
27.5°	6329.7	6316.4	6162.4	5781.8	5288.8	4878.7	4908.2	5014.9	5373.2	5576.1	5420.6
30°	7204.8	7209.2	7056.7	6665.8	6107.6	5516.8	5293.2	5355.5	5673.8	5879.6	5657.5
32.5°	8036.8	8042.8	7911.0	7474.2	6953.0	6258.6	5826.3	5810.0	6023.2	6226.0	5971.4
35°	8778.6	8793.4	8703.2	8364.1	7811.8	7084.8	6517.8	6479.2	6519.2	6748.7	6452.6
37.5°	9493.8	9502.6	9434.5	9148.8	8686.9	7992.4	7391.3	7336.5	7250.6	7426.9	7087.8
40°	10277.0	10254.8	10176.3	9917.3	9520.4	8994.8	8330.0	8235.3	8085.7	8242.6	7922.8
42.5°	11005.5	10980.3	10993.7	10700.5	10365.9	10025.3	9424.2	9261.4	9174.0	9354.6	8947.4
45°	11916.1	11902.8	11947.2	11692.5	11421.5	11174.3	10678.2	10500.6	10462.1	10673.9	10186.8
47.5°	12814.8	12847.4	12985.1	12877.0	12767.4	12549.8	12006.4	11926.4	11950.2	12206.3	11494.1
50°	13564.0	13602.6	13980.1	14104.5	14262.8	14135.6	13590.6	13541.8	13635.1	13866.1	12900.7
52.5°	14106.0	14184.4	14653.8	15226.8	15804.2	15890.1	15346.7	15302.3	15428.1	15463.7	13987.5
55°	14482.0	14551.6	15083.2	16131.4	17307.0	17677.2	17339.6	17167.9	17144.2	16793.3	15130.6
57.5°	14548.6	14541.3	15305.2	16716.2	18485.6	19440.7	19227.4	19058.6	18573.0	18022.2	16440.9
60°	14172.6	14215.5	15102.4	16919.1	19225.9	20774.6	20790.9	20571.8	19815.2	19217.1	17711.2
62.5°	13014.7	13189.4	14085.2	16387.6	19217.1	21312.1	21936.9	21769.6	20865.0	20195.8	18999.4
65°	11137.3	11199.4	12053.8	14566.4	17918.5	21087.1	22969.0	22906.8	21811.1	21146.3	19661.2
67.5°	8133.1	7998.4	8895.6	11470.4	15170.5	19775.3	23709.3	23787.7	22541.0	21341.8	18956.4
68°	7422.4	7462.3	8161.2	10705.0	14450.9	19311.8	23758.1	23878.1	22613.6	21214.4	18571.5
70°	4424.1	4501.1	5124.4	7370.6	10993.7	16689.6	23231.0	23504.9	22181.3	19901.1	16063.3
72.5°	1129.7	1221.5	1810.8	3298.8	6279.4	11759.1	19610.9	20074.3	19258.5	16144.7	10844.1
75°	464.9	488.6	647.1	1086.7	2339.4	5297.7	12925.9	13917.9	13350.8	9665.6	4900.9
77.5°	321.3	337.6	416.0	602.6	1012.8	1796.0	6337.0	7053.7	6354.8	3298.8	1069.0
80°	231.0	244.3	297.6	401.2	581.8	641.1	2065.5	2388.2	1896.7	724.0	265.0
82.5°	137.7	148.0	222.1	285.8	353.9	306.5	513.7	583.3	549.3	359.8	118.5
85°	68.1	79.9	149.5	204.3	191.0	128.8	157.0	174.8	216.2	219.1	63.6
87.5°	4.5	8.8	87.4	122.9	53.3	29.6	45.9	56.3	77.0	108.1	26.6
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°	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8	3720.8
2.5°	3731.2	3732.6	3722.3	3717.9	3720.8	3703.1	3695.6	3698.6	3698.6	3703.1	3695.6
5°	3768.2	3768.2	3750.4	3726.7	3713.4	3679.3	3657.2	3651.2	3646.8	3643.8	3637.9
7.5°	3848.1	3839.3	3808.2	3756.4	3711.9	3637.9	3581.6	3552.0	3537.2	3531.3	3526.8
10°	3977.0	3960.7	3908.9	3812.6	3710.4	3578.6	3455.8	3368.4	3295.9	3266.3	3248.5
12.5°	4150.2	4126.5	4039.2	3879.2	3700.1	3457.3	3190.7	2934.6	2696.2	2598.5	2549.6
15°	4350.0	4316.0	4178.4	3935.5	3639.4	3183.4	2604.4	2155.8	1825.6	1701.3	1647.9
17.5°	4552.9	4508.5	4299.7	3971.0	3457.3	2616.3	1827.1	1379.9	1159.3	1100.1	1079.4
20°	4757.2	4692.1	4404.8	3944.4	3045.7	1886.3	1205.2	1008.3	944.7	926.9	920.9
22.5°	4951.2	4850.6	4499.7	3840.8	2412.0	1266.0	953.5	891.3	870.6	860.3	857.3
25°	5120.0	4979.3	4582.6	3521.0	1707.2	956.5	858.8	838.0	811.4	792.1	793.6
27.5°	5278.4	5108.1	4632.9	2993.8	1138.6	817.3	795.1	766.9	718.1	690.0	690.0
30°	5469.4	5279.9	4669.9	2303.8	838.0	722.5	704.8	661.9	595.2	558.2	558.2
32.5°	5756.7	5540.5	4646.2	1616.9	694.4	635.2	593.8	534.5	462.0	426.5	425.0
35°	6196.5	5943.3	4477.4	1060.1	613.0	552.3	485.6	413.1	349.4	319.8	318.3
37.5°	6788.7	6482.2	4098.3	758.1	549.3	475.3	395.3	315.3	268.0	248.7	247.2
40°	7557.1	7108.5	3556.5	614.4	490.1	401.2	305.0	244.3	211.7	196.9	198.4
42.5°	8479.5	7779.2	2906.4	530.1	432.3	330.1	238.4	192.5	171.8	161.3	158.5
45°	9504.1	8441.0	2225.4	472.3	374.6	266.5	186.6	152.5	136.2	130.3	130.3
47.5°	10630.9	9085.1	1628.7	422.0	312.4	205.8	149.5	124.4	111.0	106.6	105.1
50°	11654.0	9532.2	1174.1	368.7	256.2	162.8	121.4	103.7	94.7	88.9	88.9
52.5°	12506.9	9672.9	864.7	311.0	207.3	130.3	100.7	88.9	79.9	75.5	75.5
55°	13257.5	9615.2	642.6	256.2	167.3	106.6	85.9	75.5	68.1	63.6	63.6
57.5°	13977.1	9428.7	479.7	208.8	134.7	85.9	72.6	63.6	56.3	53.3	53.3
60°	14564.9	9117.7	356.9	168.8	108.1	69.6	60.7	51.8	45.9	41.5	41.5
62.5°	15041.7	8774.2	262.0	139.2	85.9	54.8	47.4	42.9	34.1	29.6	29.6
65°	15044.7	8204.1	196.9	115.5	66.6	42.9	35.5	34.1	22.2	17.8	16.3
67.5°	13956.4	7073.0	151.0	99.2	51.8	32.6	26.6	28.1	11.8	7.4	6.0
68°	13561.1	6785.7	142.2	97.7	48.9	31.1	25.2	28.1	10.3	6.0	4.5
70°	11433.4	5398.3	114.0	94.7	42.9	23.7	20.8	28.1	8.8	4.5	3.0
72.5°	7312.8	3133.0	84.4	75.5	32.6	17.8	13.3	25.2	8.8	3.0	1.5
75°	3112.3	971.3	57.8	53.3	19.3	13.3	8.8	16.3	6.0	1.5	0.0
77.5°	655.9	219.1	34.1	32.6	13.3	8.8	6.0	4.5	1.5	0.0	0.0
80°	168.8	63.6	17.8	16.3	7.4	4.5	3.0	0.0	0.0	0.0	0.0
82.5°	53.3	25.2	10.3	7.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.6	14.8	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	4.5	1.5	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)