

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: P322912

Luminaire Tested: **GAN-SA8A-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27070 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

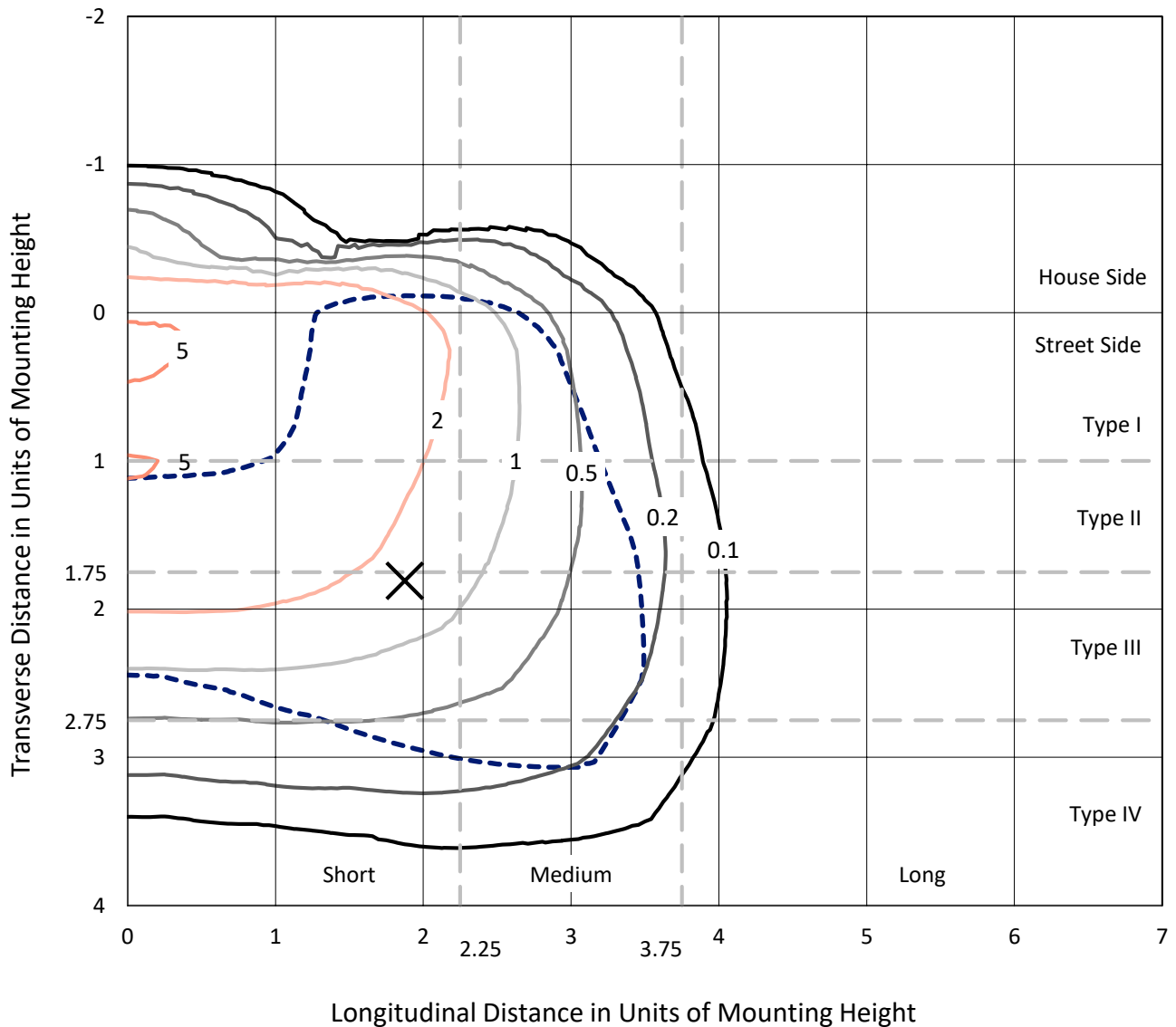
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

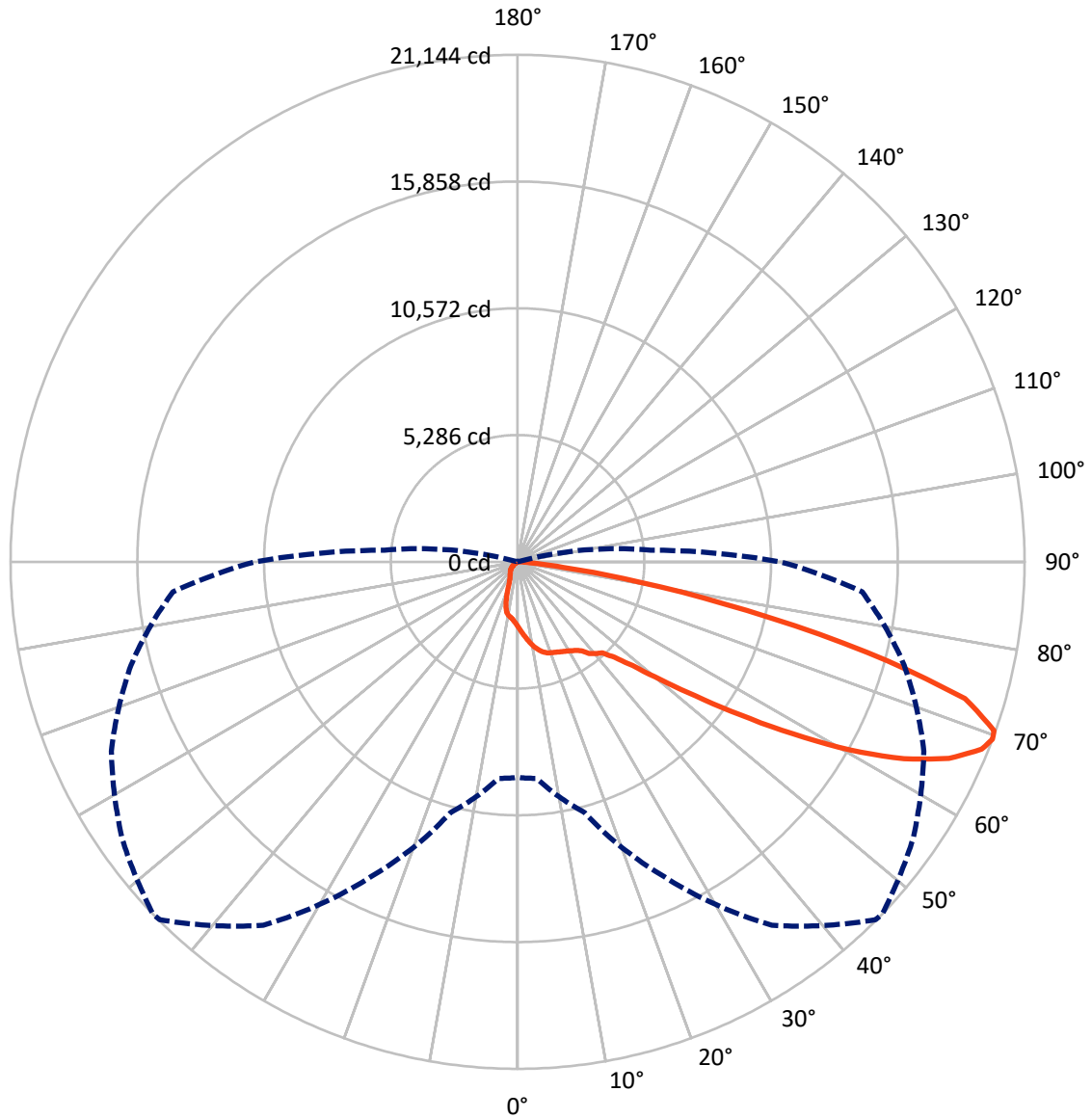
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2778.1	0.0	2778.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24291.9	0.0	24291.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	27070.0	0.0	27070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.0
10°-20°	819.0	3.0
20°-30°	1288.0	4.8
30°-40°	1847.1	6.8
40°-50°	3192.4	11.8
50°-60°	6306.9	23.3
60°-70°	8814.5	32.6
70°-80°	4258.4	15.7
80°-90°	273.7	1.0
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°	27070.0	100.0
0°-180°	27070.0	100.0

Coefficient of Utilization

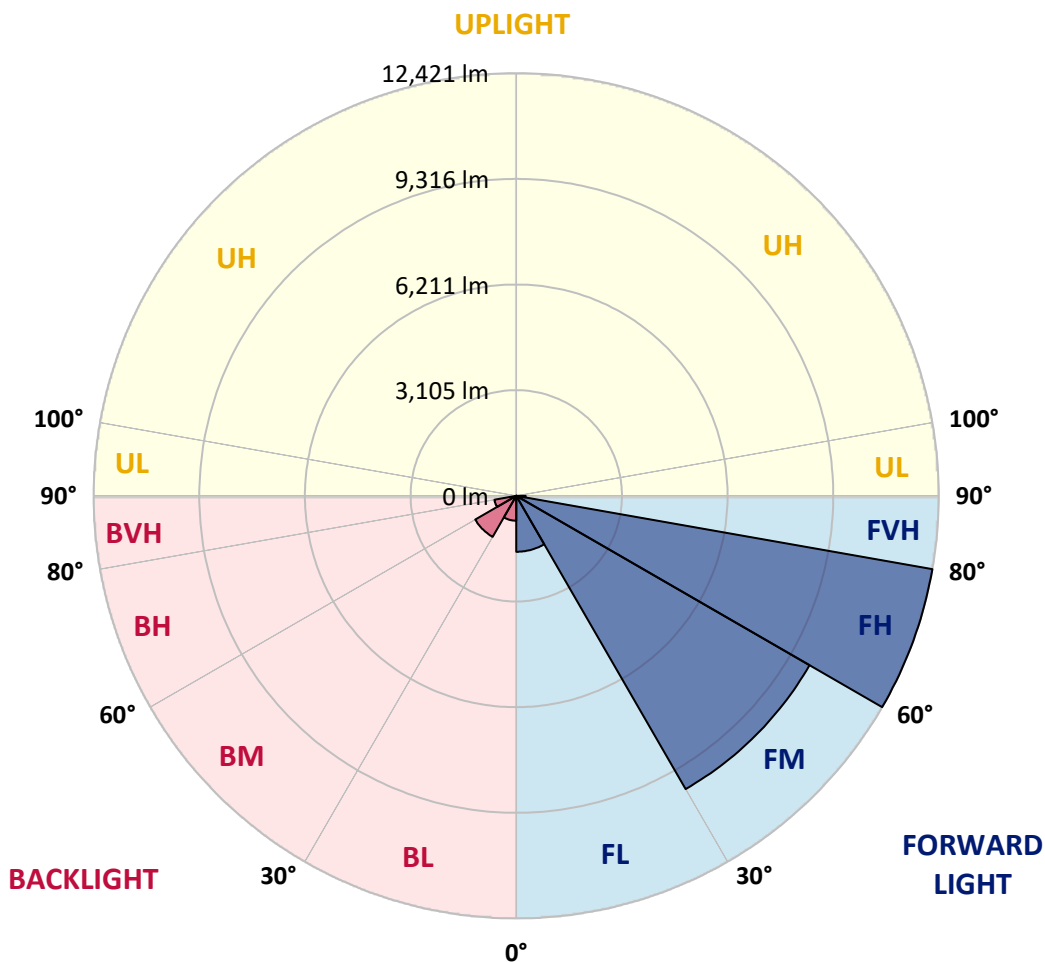


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1644.8	6.1			
FM (30°-60°)	9954.2	36.8			
FH (60°-80°)	12421.4	45.9			G5
FVH (80°-90°)	271.4	1.0			G3/500
BL (0°-30°)	732.2	2.7	B2/1000		
BM (30°-60°)	1392.2	5.1	B2/2500		
BH (60°-80°)	651.4	2.4	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: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3
2.5°	3013.1	3009.3	2991.5	2983.9	2940.8	2915.4	2905.2	2873.5	2827.8	2782.1	2731.4
5°	3355.8	3354.5	3321.5	3289.8	3208.6	3132.4	3118.5	3044.8	2942.0	2845.6	2749.1
7.5°	3706.1	3689.6	3656.6	3595.7	3477.6	3355.8	3344.4	3240.3	3094.3	2954.7	2816.4
10°	4003.1	3993.0	3949.8	3857.1	3718.8	3580.5	3566.5	3438.3	3273.3	3102.0	2925.5
12.5°	4234.1	4226.5	4169.4	4053.9	3906.6	3763.2	3744.2	3630.0	3453.5	3261.9	3053.7
15°	4375.0	4371.2	4301.4	4178.3	4033.6	3909.2	3892.7	3792.4	3628.7	3428.2	3193.3
17.5°	4408.0	4409.3	4336.9	4212.5	4093.2	4004.4	3991.7	3915.5	3778.5	3579.2	3333.0
20°	4334.4	4349.6	4284.9	4177.0	4103.4	4056.4	4046.3	4000.6	3885.1	3697.2	3444.6
22.5°	4230.3	4237.9	4193.5	4121.1	4090.7	4099.6	4094.5	4069.1	3971.4	3798.8	3555.1
25°	4166.8	4166.8	4140.2	4079.3	4099.6	4154.1	4155.4	4150.3	4072.9	3923.1	3689.6
27.5°	4164.3	4156.7	4126.2	4080.5	4136.4	4220.1	4225.2	4259.5	4211.3	4074.2	3857.1
30°	4265.8	4256.9	4192.2	4132.6	4203.6	4293.8	4306.4	4381.3	4357.2	4237.9	4043.7
32.5°	4503.2	4471.4	4328.0	4230.3	4283.6	4391.5	4408.0	4527.3	4565.4	4439.7	4223.9
35°	4828.1	4727.8	4520.9	4415.6	4420.7	4533.6	4548.9	4724.0	4837.0	4625.0	4363.6
37.5°	5276.1	5226.6	4890.3	4608.5	4631.4	4802.7	4847.1	5037.5	5005.8	4726.6	4522.2
40°	6258.5	6181.1	5823.2	5149.2	4833.2	5021.0	5035.0	5136.5	5139.1	4956.3	4852.2
42.5°	7596.3	7564.5	7187.6	6130.3	5230.4	5167.0	5192.4	5363.7	5555.4	5441.1	5436.0
45°	9077.4	9060.9	8661.1	7432.5	6033.8	5645.5	5677.2	5906.9	6273.7	6299.1	6460.3
47.5°	10269.2	10261.6	10031.9	8885.8	7263.7	6456.5	6466.7	6710.3	7355.1	7673.7	7931.3
50°	11355.7	11392.5	11211.0	10458.3	8939.1	7727.0	7702.9	7865.3	8901.0	9422.7	9742.5
52.5°	12866.0	12918.1	12409.1	11925.5	10696.9	9303.3	9284.3	9454.4	10759.1	11150.1	11207.2
55°	14200.0	14111.1	13708.8	13569.2	12840.6	11250.3	11245.2	11395.0	12556.3	12722.6	12828.0
57.5°	14788.9	14754.6	14948.8	15268.7	15085.9	13551.4	13540.0	13425.8	14164.4	14182.2	14505.9
60°	15160.8	15202.7	15797.9	16784.1	17239.7	16027.6	15954.0	15257.2	15700.2	15660.8	16007.3
62.5°	14881.5	14964.0	16035.3	17678.9	18851.7	18189.1	18085.0	16935.1	17012.6	16876.8	17199.1
65°	13399.1	13527.3	15282.6	17510.1	19651.3	19878.4	19773.1	18416.3	18054.6	17831.2	17652.2
67.5°	10879.7	10955.9	12788.6	16041.6	19290.8	20886.2	20864.6	19714.7	18841.5	17670.0	16281.5
69°	8991.1	9066.0	10830.2	14495.7	18497.5	21102.0	21143.9	20131.0	18691.7	16690.2	14425.9
70°	7615.3	7695.3	9338.9	13170.6	17577.4	21001.7	21076.6	20091.7	18262.7	15555.5	12797.5
72.5°	3994.2	4062.8	5749.5	9073.6	14329.4	19284.5	19511.6	18393.5	15480.6	11297.3	7567.1
75°	1255.3	1294.6	2245.2	4743.1	9811.0	14994.5	15046.5	14428.4	10992.7	6214.1	3151.5
77.5°	478.5	467.1	747.6	1747.7	4960.1	9441.7	9760.3	9016.5	5768.6	2197.0	727.3
80°	257.7	258.9	388.4	723.5	2122.1	4852.2	5121.3	4369.9	2049.8	685.4	167.5
82.5°	111.7	116.8	218.3	383.3	974.8	1789.6	1924.1	1601.7	783.1	460.7	62.2
85°	24.1	26.7	105.3	208.2	397.3	502.6	526.7	519.1	498.8	357.9	24.1
87.5°	0.0	0.0	47.0	74.9	100.3	114.2	100.3	130.7	275.4	241.2	12.7
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°	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3
2.5°	2714.9	2692.0	2652.7	2609.5	2579.0	2547.3	2521.9	2510.5	2497.8	2488.9	2500.4
5°	2709.8	2665.4	2589.2	2515.6	2462.3	2419.1	2383.6	2369.6	2355.7	2345.5	2344.2
7.5°	2754.2	2692.0	2575.2	2467.4	2384.9	2326.5	2278.2	2257.9	2241.4	2233.8	2227.5
10°	2839.2	2759.3	2603.2	2462.3	2355.7	2256.7	2152.6	2072.6	2020.6	1996.5	1987.6
12.5°	2949.7	2849.4	2656.5	2488.9	2334.1	2143.7	1922.9	1732.5	1609.4	1568.7	1544.6
15°	3079.1	2954.7	2726.3	2523.2	2255.4	1907.6	1533.2	1284.4	1170.2	1147.4	1122.0
17.5°	3203.5	3066.4	2810.0	2529.5	2082.8	1524.3	1123.3	954.4	910.0	925.3	929.1
20°	3312.7	3176.8	2892.5	2473.7	1769.3	1143.6	869.4	827.5	844.0	873.2	878.3
22.5°	3423.1	3283.5	2968.7	2326.5	1368.2	868.1	783.1	793.3	809.8	839.0	844.0
25°	3557.6	3412.9	3039.8	2056.1	1026.8	738.7	743.8	759.0	775.5	802.1	804.7
27.5°	3712.5	3576.6	3086.7	1704.6	761.5	679.0	695.5	718.4	734.9	760.3	765.3
30°	3918.1	3792.4	3102.0	1340.3	638.4	625.7	633.3	661.3	685.4	708.2	712.0
32.5°	4111.0	4005.6	3051.2	1011.6	591.5	576.2	576.2	592.7	620.6	642.2	647.3
35°	4288.7	4220.1	2888.7	740.0	555.9	530.5	517.8	517.8	535.6	553.4	558.5
37.5°	4523.5	4520.9	2626.0	590.2	521.6	492.5	465.8	445.5	439.1	443.0	445.5
40°	4925.8	4929.6	2283.3	529.3	492.5	453.1	412.5	375.7	341.4	330.0	328.7
42.5°	5554.1	5497.0	1924.1	500.1	467.1	412.5	351.6	302.1	248.8	232.3	231.0
45°	6551.7	6212.8	1543.4	473.4	440.4	366.8	290.7	223.4	180.2	167.5	167.5
47.5°	8004.9	7153.3	1195.6	444.2	404.9	314.8	219.6	161.2	132.0	125.7	126.9
50°	9507.7	8074.7	916.4	407.4	361.7	260.2	162.5	116.8	100.3	100.3	101.5
52.5°	10840.4	8750.0	714.6	368.1	308.4	204.3	123.1	91.4	83.8	82.5	83.8
55°	12088.0	9185.3	547.0	322.4	245.0	152.3	93.9	74.9	69.8	67.3	66.0
57.5°	13291.2	9401.1	410.0	260.2	177.7	110.4	74.9	63.5	58.4	54.6	53.3
60°	14092.1	9225.9	281.8	191.7	123.1	80.0	62.2	54.6	48.2	44.4	43.2
62.5°	14543.9	8747.4	181.5	138.3	87.6	59.7	49.5	45.7	36.8	33.0	33.0
65°	14361.2	7958.0	126.9	99.0	63.5	44.4	36.8	36.8	26.7	21.6	20.3
67.5°	12726.4	6723.0	96.5	73.6	45.7	33.0	27.9	31.7	16.5	10.2	10.2
69°	10949.5	5571.9	82.5	60.9	38.1	26.7	24.1	29.2	11.4	7.6	6.3
70°	9516.6	4806.5	74.9	53.3	31.7	22.8	21.6	27.9	11.4	6.3	5.1
72.5°	5693.7	2680.6	57.1	38.1	20.3	17.8	17.8	31.7	11.4	6.3	5.1
75°	2301.1	944.3	41.9	26.7	15.2	15.2	21.6	40.6	10.2	5.1	3.8
77.5°	521.6	206.9	24.1	16.5	10.2	15.2	25.4	31.7	6.3	2.5	0.0
80°	126.9	50.8	15.2	10.2	6.3	11.4	19.0	17.8	1.3	0.0	0.0
82.5°	41.9	17.8	6.3	5.1	1.3	3.8	8.9	5.1	0.0	0.0	0.0
85°	17.8	10.2	2.5	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.4	3.8	0.0	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)