

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: P322843

Luminaire Tested: **GAN-SA9B-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322843  
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-SA9B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 33722 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

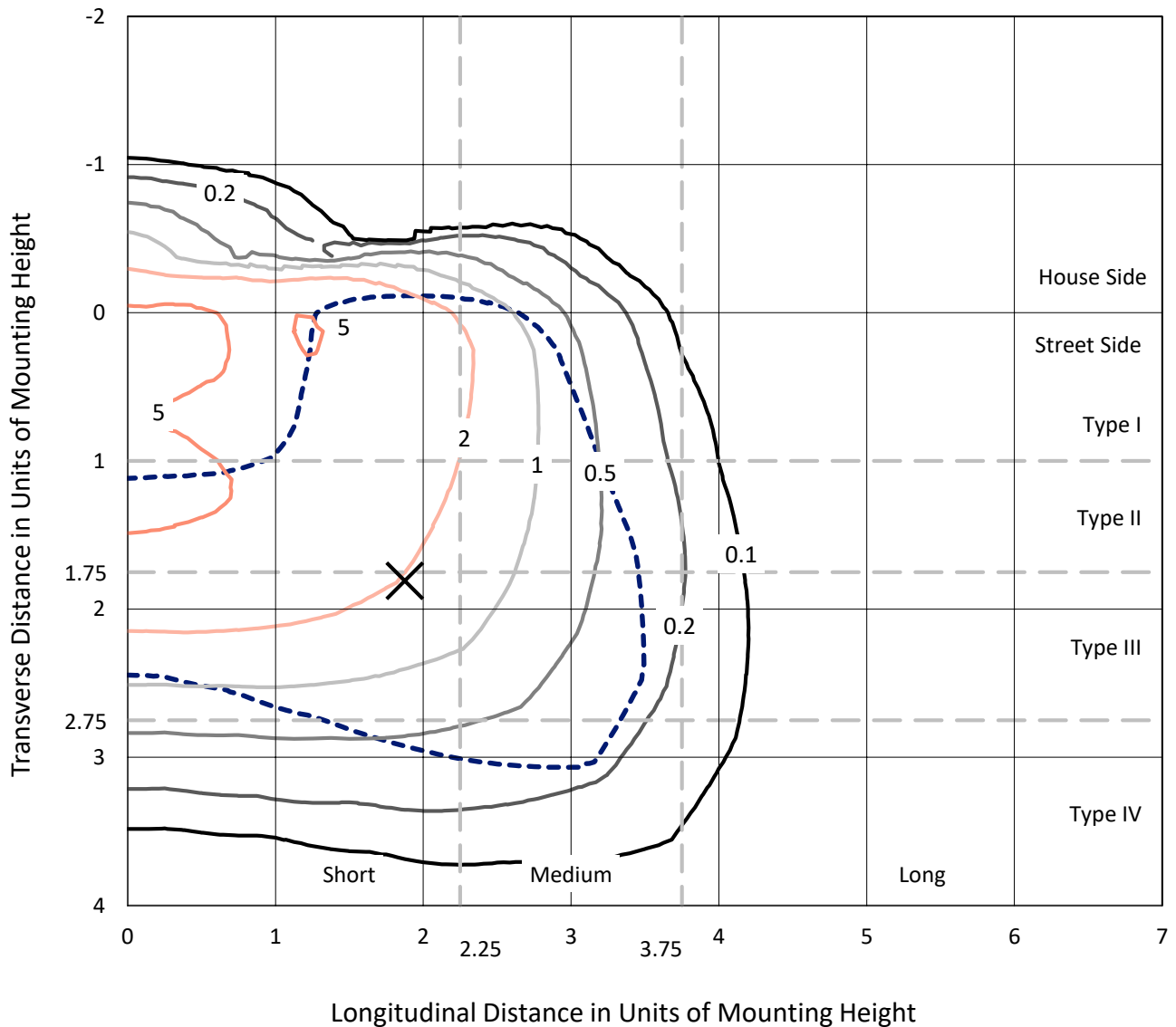
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

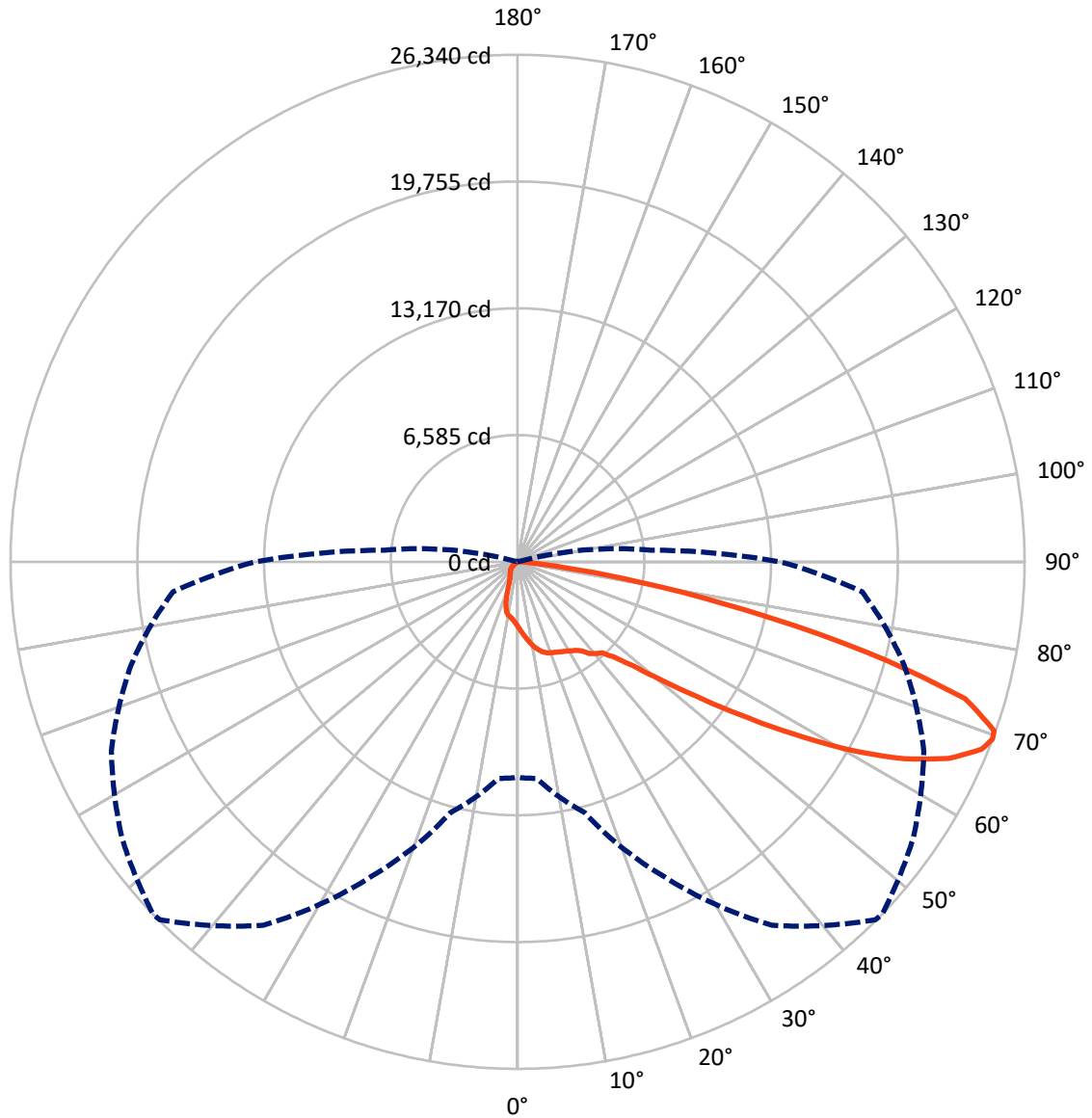
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	3460.8	0.0	3460.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	30261.2	0.0	30261.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	33722.0	0.0	33722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	1.0
10°-20°	1020.3	3.0
20°-30°	1604.6	4.8
30°-40°	2301.0	6.8
40°-50°	3976.9	11.8
50°-60°	7856.8	23.3
60°-70°	10980.5	32.6
70°-80°	5304.8	15.7
80°-90°	341.0	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°	33722.0	100.0
0°-180°	33722.0	100.0

**Coefficient of Utilization**



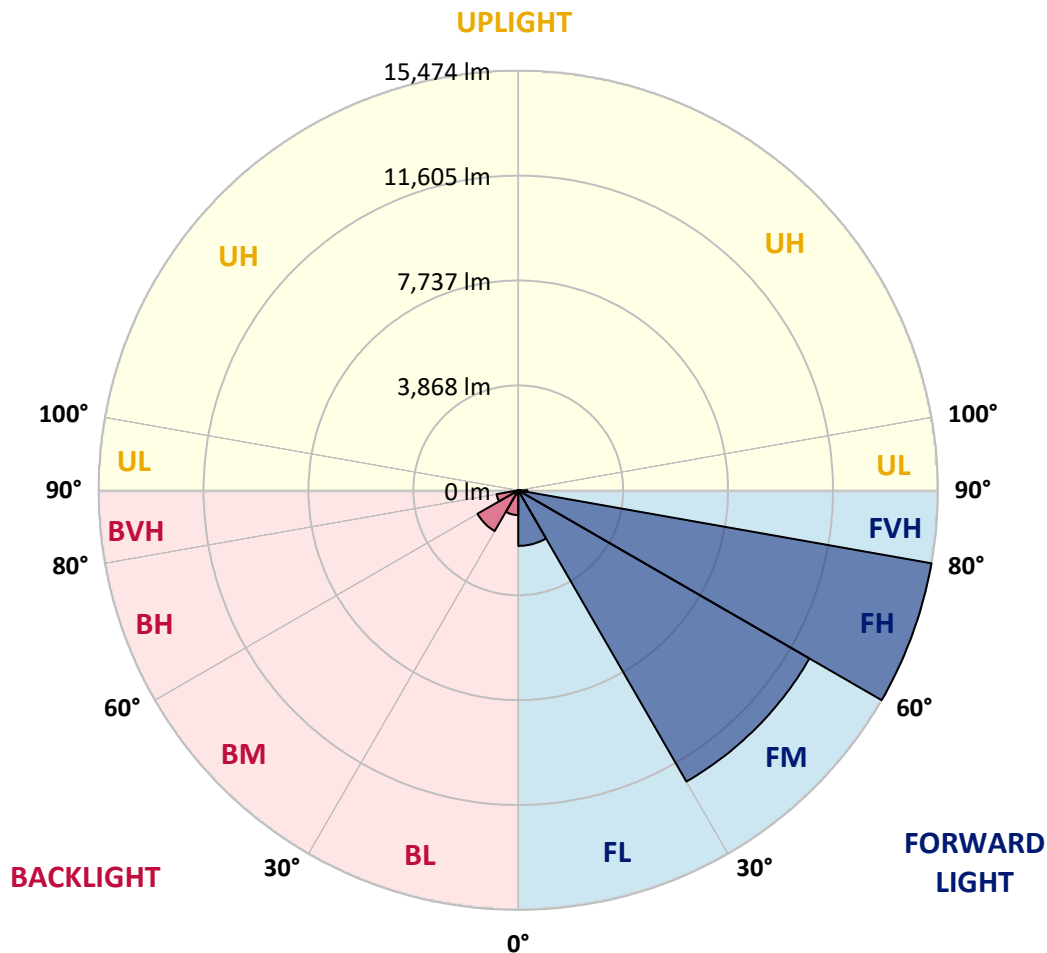
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.0	6.1			
FM (30°-60°)	12400.3	36.8			
FH (60°-80°)	15473.8	45.9			G5
FVH (80°-90°)	338.1	1.0			G3/500
BL (0°-30°)	912.1	2.7	B2/1000		
BM (30°-60°)	1734.3	5.1	B2/2500		
BH (60°-80°)	811.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8
2.5°	3753.5	3748.8	3726.7	3717.2	3663.4	3631.8	3619.1	3579.6	3522.7	3465.8	3402.5
5°	4180.4	4178.9	4137.7	4098.2	3997.0	3902.2	3884.8	3793.1	3665.0	3544.8	3424.7
7.5°	4616.8	4596.3	4555.2	4479.3	4332.2	4180.4	4166.2	4036.6	3854.7	3680.8	3508.5
10°	4986.8	4974.2	4920.4	4805.0	4632.6	4460.3	4442.9	4283.2	4077.7	3864.2	3644.4
12.5°	5274.6	5265.1	5193.9	5050.0	4866.6	4688.0	4664.3	4522.0	4302.2	4063.4	3804.1
15°	5450.1	5445.3	5358.4	5205.0	5024.7	4869.8	4849.2	4724.3	4520.4	4270.6	3978.1
17.5°	5491.2	5492.8	5402.6	5247.7	5099.1	4988.4	4972.6	4877.7	4706.9	4458.7	4152.0
20°	5399.5	5418.4	5337.8	5203.4	5111.7	5053.2	5040.6	4983.6	4839.8	4605.8	4291.1
22.5°	5269.8	5279.3	5224.0	5133.8	5095.9	5107.0	5100.6	5069.0	4947.3	4732.2	4428.7
25°	5190.8	5190.8	5157.6	5081.7	5107.0	5175.0	5176.5	5170.2	5073.8	4887.2	4596.3
27.5°	5187.6	5178.1	5140.2	5083.2	5152.8	5257.2	5263.5	5306.2	5246.1	5075.3	4805.0
30°	5314.1	5303.0	5222.4	5148.1	5236.6	5348.9	5364.7	5458.0	5427.9	5279.3	5037.4
32.5°	5609.8	5570.2	5391.6	5269.8	5336.2	5470.6	5491.2	5639.8	5687.2	5530.7	5261.9
35°	6014.5	5889.6	5631.9	5500.7	5507.0	5647.7	5666.7	5884.9	6025.6	5761.5	5435.8
37.5°	6572.6	6511.0	6092.0	5741.0	5769.4	5982.9	6038.2	6275.4	6235.9	5888.0	5633.5
40°	7796.4	7700.0	7254.1	6414.5	6020.8	6254.8	6272.2	6398.7	6401.9	6174.2	6044.6
42.5°	9462.9	9423.4	8953.8	7636.7	6515.7	6436.7	6468.3	6681.7	6920.5	6778.2	6771.9
45°	11308.1	11287.5	10789.5	9258.9	7516.6	7032.7	7072.3	7358.5	7815.4	7847.0	8047.8
47.5°	12792.7	12783.2	12497.0	11069.3	9048.7	8043.1	8055.7	8359.3	9162.5	9559.4	9880.3
50°	14146.1	14192.0	13965.9	13028.3	11135.7	9625.8	9595.7	9798.1	11088.3	11738.1	12136.6
52.5°	16027.6	16092.5	15458.4	14856.0	13325.5	11589.5	11565.8	11777.6	13403.0	13890.0	13961.1
55°	17689.4	17578.7	17077.5	16903.6	15996.0	14014.9	14008.6	14195.1	15641.9	15849.0	15980.2
57.5°	18423.0	18380.3	18622.2	19020.7	18793.0	16881.4	16867.2	16724.9	17645.1	17667.3	18070.4
60°	18886.3	18938.5	19680.0	20908.5	21476.1	19966.2	19874.5	19006.4	19558.3	19509.2	19940.9
62.5°	18538.4	18641.2	19975.7	22023.2	23484.1	22658.8	22529.1	21096.7	21193.1	21023.9	21425.5
65°	16691.7	16851.4	19038.1	21812.9	24480.2	24763.2	24632.0	22941.8	22491.2	22212.9	21990.0
67.5°	13553.2	13648.1	15931.2	19983.6	24031.2	26018.6	25991.8	24559.3	23471.5	22012.1	20282.4
69°	11200.5	11293.8	13491.6	18057.8	23043.0	26287.4	26339.6	25077.9	23284.9	20791.5	17970.8
70°	9486.6	9586.2	11633.8	16407.1	21896.7	26162.5	26255.8	25028.9	22750.5	19378.0	15942.3
72.5°	4975.7	5061.1	7162.4	11303.3	17850.7	24023.3	24306.3	22913.4	19284.7	14073.4	9426.5
75°	1563.7	1612.7	2797.0	5908.6	12221.9	18679.2	18744.0	17974.0	13693.9	7741.1	3925.9
77.5°	596.1	581.8	931.3	2177.2	6179.0	11761.8	12158.7	11232.2	7186.1	2736.9	906.0
80°	321.0	322.5	483.8	901.2	2643.6	6044.6	6379.8	5443.7	2553.5	853.8	208.7
82.5°	139.1	145.5	271.9	477.5	1214.3	2229.4	2397.0	1995.4	975.5	573.9	77.5
85°	30.0	33.2	131.2	259.3	494.9	626.1	656.2	646.7	621.4	445.9	30.0
87.5°	0.0	0.0	58.5	93.3	124.9	142.3	124.9	162.9	343.1	300.4	15.8
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°	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8	3378.8
2.5°	3382.0	3353.5	3304.5	3250.7	3212.8	3173.3	3141.7	3127.4	3111.6	3100.5	3114.8
5°	3375.7	3320.3	3225.5	3133.7	3067.3	3013.6	2969.3	2951.9	2934.5	2921.9	2920.3
7.5°	3431.0	3353.5	3208.1	3073.7	2970.9	2898.2	2838.1	2812.8	2792.2	2782.7	2774.8
10°	3536.9	3437.3	3242.8	3067.3	2934.5	2811.2	2681.6	2581.9	2517.1	2487.1	2476.0
12.5°	3674.5	3549.6	3309.2	3100.5	2907.6	2670.5	2395.4	2158.2	2004.8	1954.2	1924.2
15°	3835.8	3680.8	3396.2	3143.2	2809.6	2376.4	1910.0	1600.1	1457.8	1429.3	1397.7
17.5°	3990.7	3819.9	3500.6	3151.1	2594.6	1898.9	1399.3	1189.0	1133.7	1152.6	1157.4
20°	4126.7	3957.5	3603.3	3081.6	2204.1	1424.6	1083.1	1030.9	1051.4	1087.8	1094.1
22.5°	4264.2	4090.3	3698.2	2898.2	1704.4	1081.5	975.5	988.2	1008.7	1045.1	1051.4
25°	4431.8	4251.6	3786.7	2561.4	1279.1	920.2	926.5	945.5	966.1	999.3	1002.4
27.5°	4624.7	4455.5	3845.2	2123.4	948.7	845.9	866.4	894.9	915.5	947.1	953.4
30°	4880.9	4724.3	3864.2	1669.6	795.3	779.5	789.0	823.8	853.8	882.3	887.0
32.5°	5121.2	4990.0	3801.0	1260.1	736.8	717.8	717.8	738.4	773.2	800.0	806.4
35°	5342.5	5257.2	3598.6	921.8	692.5	660.9	645.1	645.1	667.2	689.4	695.7
37.5°	5635.1	5631.9	3271.3	735.2	649.8	613.5	580.3	555.0	547.1	551.8	555.0
40°	6136.3	6141.0	2844.4	659.3	613.5	564.5	513.9	468.0	425.3	411.1	409.5
42.5°	6918.9	6847.8	2397.0	623.0	581.8	513.9	438.0	376.3	309.9	289.3	287.8
45°	8161.7	7739.5	1922.6	589.8	548.6	456.9	362.1	278.3	224.5	208.7	208.7
47.5°	9972.0	8911.1	1489.4	553.4	504.4	392.1	273.5	200.8	164.4	156.5	158.1
50°	11844.0	10059.0	1141.6	507.5	450.6	324.1	202.4	145.5	124.9	124.9	126.5
52.5°	13504.2	10900.1	890.2	458.5	384.2	254.6	153.4	113.8	104.4	102.8	104.4
55°	15058.4	11442.4	681.5	401.6	305.2	189.7	117.0	93.3	87.0	83.8	82.2
57.5°	16557.3	11711.2	510.7	324.1	221.4	137.6	93.3	79.1	72.7	68.0	66.4
60°	17555.0	11493.0	351.0	238.7	153.4	99.6	77.5	68.0	60.1	55.3	53.8
62.5°	18117.9	10897.0	226.1	172.3	109.1	74.3	61.7	56.9	45.9	41.1	41.1
65°	17890.2	9913.5	158.1	123.3	79.1	55.3	45.9	45.9	33.2	26.9	25.3
67.5°	15853.7	8375.1	120.2	91.7	56.9	41.1	34.8	39.5	20.6	12.6	12.6
69°	13640.2	6941.0	102.8	75.9	47.4	33.2	30.0	36.4	14.2	9.5	7.9
70°	11855.1	5987.6	93.3	66.4	39.5	28.5	26.9	34.8	14.2	7.9	6.3
72.5°	7092.8	3339.3	71.1	47.4	25.3	22.1	22.1	39.5	14.2	7.9	6.3
75°	2866.5	1176.3	52.2	33.2	19.0	19.0	26.9	50.6	12.6	6.3	4.7
77.5°	649.8	257.7	30.0	20.6	12.6	19.0	31.6	39.5	7.9	3.2	0.0
80°	158.1	63.2	19.0	12.6	7.9	14.2	23.7	22.1	1.6	0.0	0.0
82.5°	52.2	22.1	7.9	6.3	1.6	4.7	11.1	6.3	0.0	0.0	0.0
85°	22.1	12.6	3.2	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.2	4.7	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)