

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: P323829

Luminaire Tested: **GAN-SA5A-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18904 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

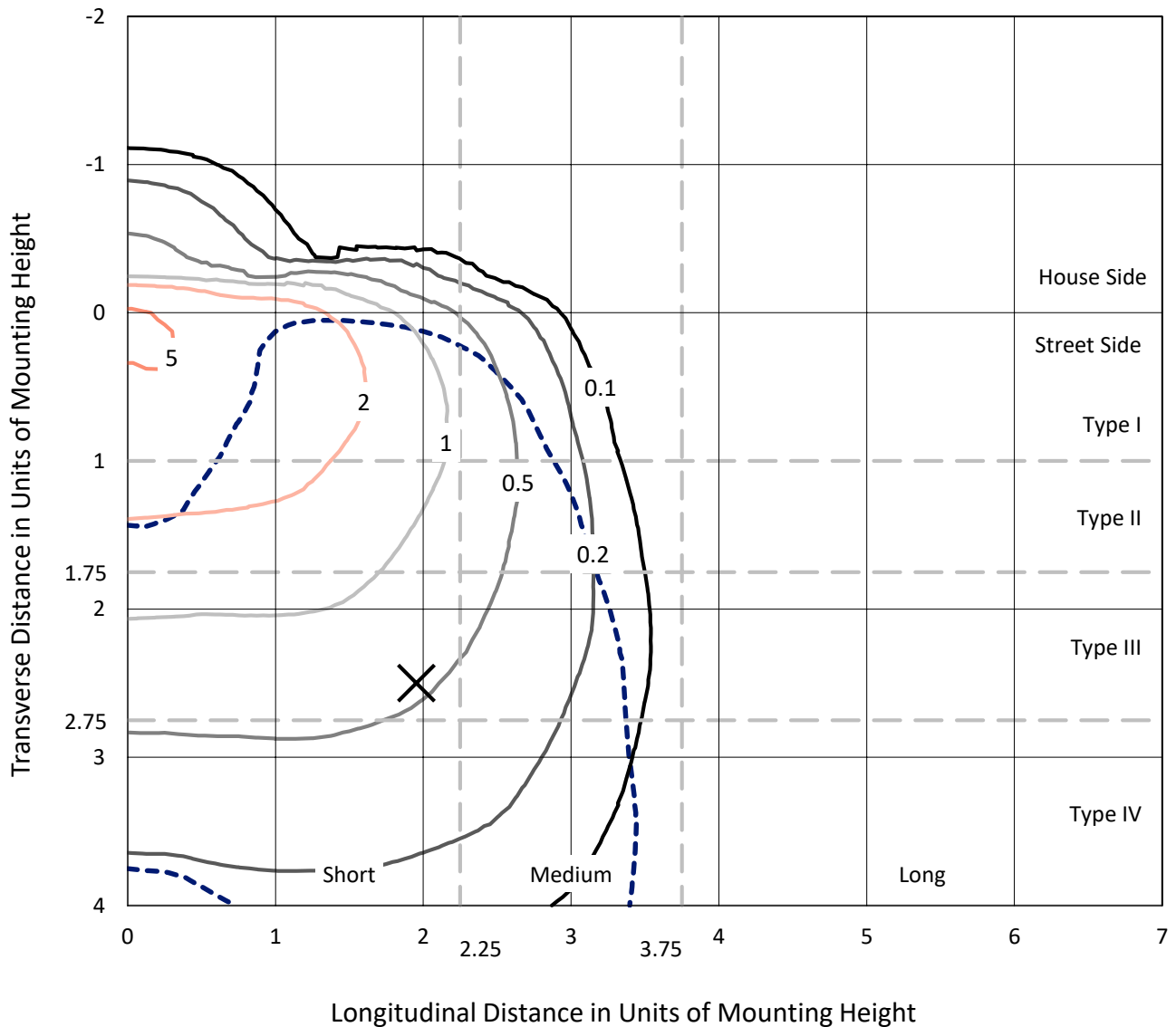
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

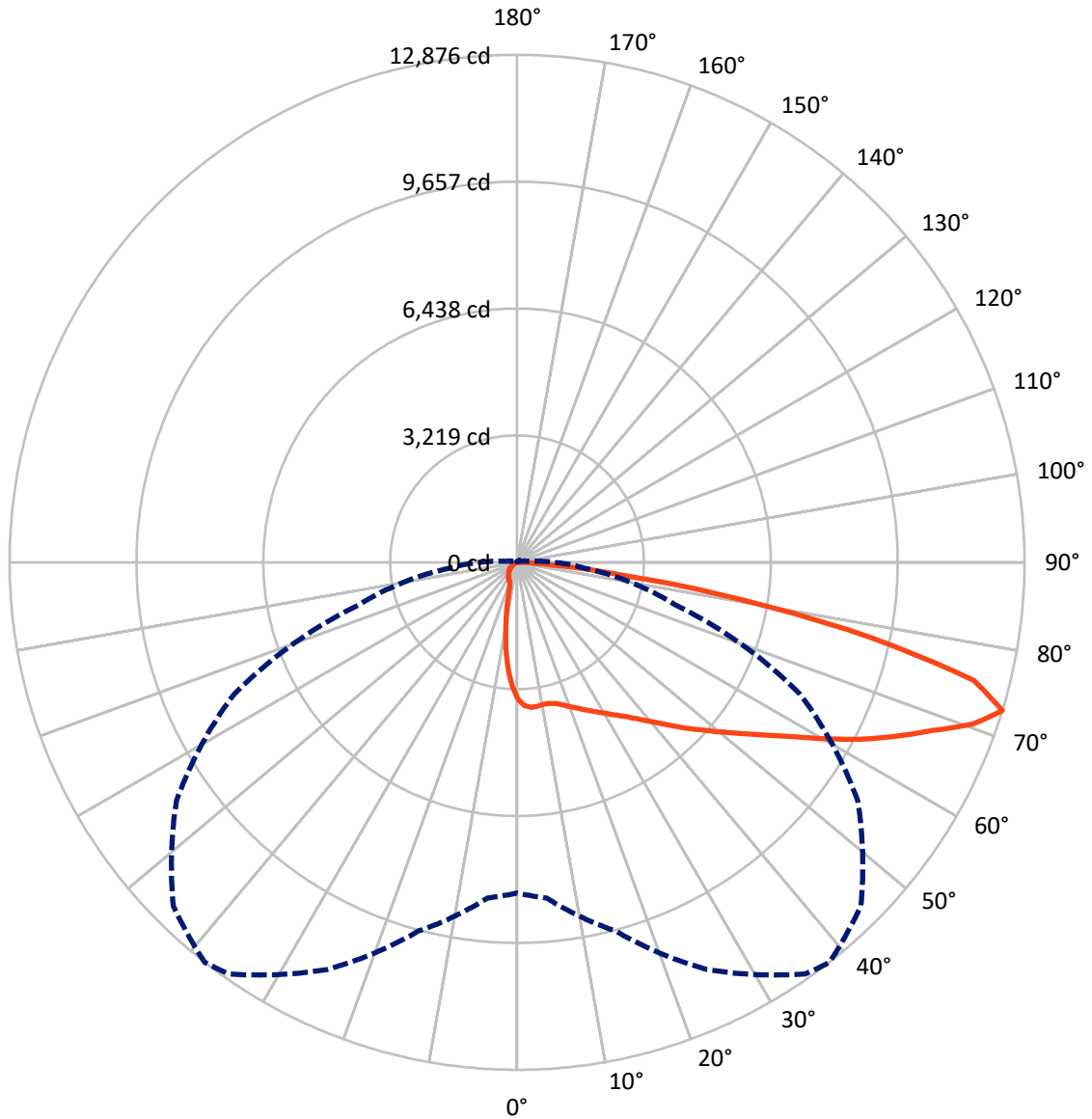
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1590.8	0.0	1590.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	17313.1	0.0	17313.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	18904.0	0.0	18904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.3	1.6
10°-20°	724.4	3.8
20°-30°	1152.2	6.1
30°-40°	1732.1	9.2
40°-50°	2642.5	14.0
50°-60°	3734.8	19.8
60°-70°	4684.6	24.8
70°-80°	3502.8	18.5
80°-90°	434.3	2.3
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°	18904.0	100.0
0°-180°	18904.0	100.0

**Coefficient of Utilization**

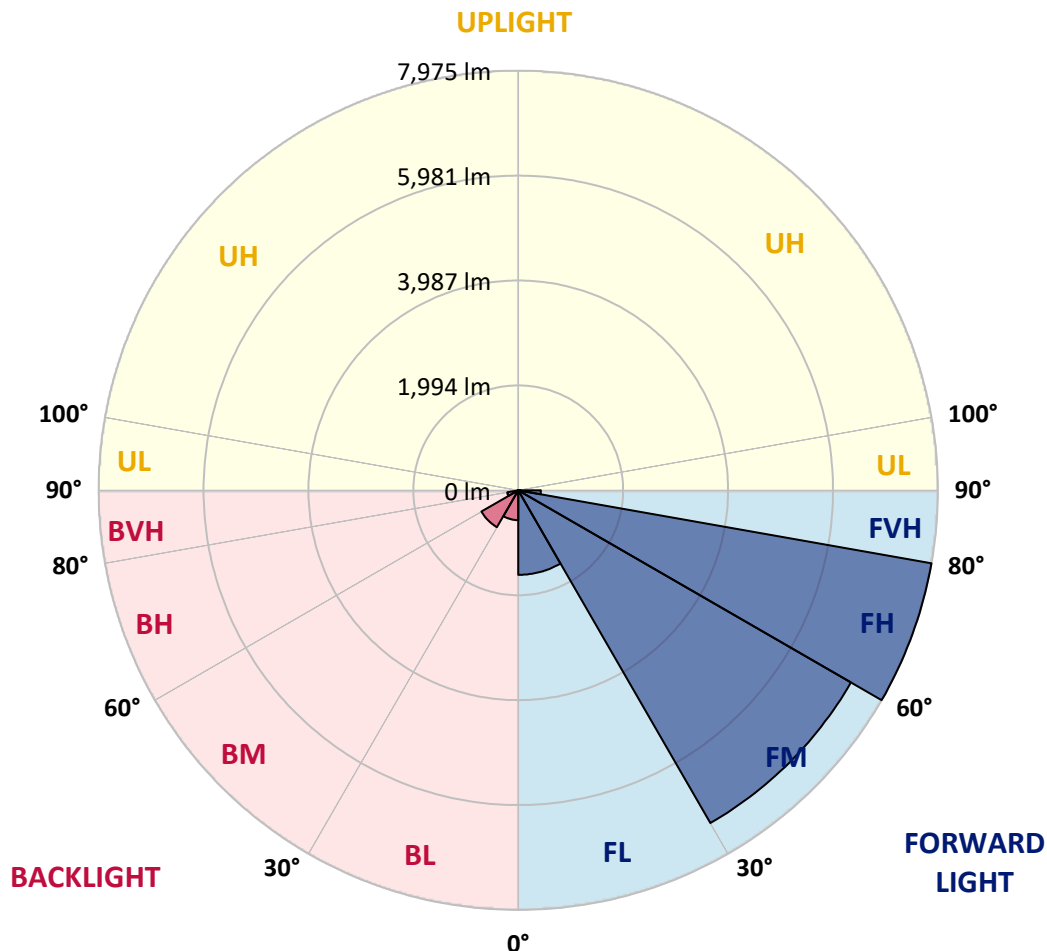


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.4	8.5			
FM (30°-60°)	7301.6	38.6			
FH (60°-80°)	7974.9	42.2			G4/12000
FVH (80°-90°)	430.3	2.3			G3/500
BL (0°-30°)	566.4	3.0	B2/1000		
BM (30°-60°)	807.8	4.3	B1/1000		
BH (60°-80°)	212.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
2.5°	3689.9	3690.7	3682.1	3667.9	3649.9	3640.5	3624.8	3599.6	3572.9	3525.1	3473.2
5°	3765.3	3765.3	3754.3	3735.5	3706.4	3697.8	3667.9	3627.9	3572.9	3495.2	3408.1
7.5°	3757.4	3759.0	3744.1	3724.5	3695.4	3687.6	3651.5	3606.7	3538.4	3444.2	3332.7
10°	3716.6	3720.5	3708.8	3699.3	3672.7	3664.0	3630.3	3585.5	3517.2	3416.7	3288.7
12.5°	3675.0	3678.9	3682.9	3691.5	3675.0	3671.9	3645.2	3607.5	3542.3	3437.9	3293.5
15°	3648.3	3656.2	3684.4	3718.2	3722.1	3719.0	3701.7	3666.4	3600.4	3492.1	3327.2
17.5°	3648.3	3660.9	3719.8	3784.1	3806.9	3809.3	3794.3	3744.9	3666.4	3550.2	3358.6
20°	3678.9	3696.2	3788.1	3879.1	3916.8	3916.8	3887.8	3818.7	3726.8	3602.8	3379.8
22.5°	3757.4	3780.2	3895.6	4000.8	4040.9	4032.2	3993.0	3892.5	3789.6	3662.4	3406.5
25°	3912.1	3929.4	4049.5	4155.5	4179.8	4160.2	4110.7	3982.0	3869.7	3743.3	3455.2
27.5°	4111.5	4113.9	4237.9	4327.4	4312.5	4299.2	4237.1	4094.2	3985.1	3858.7	3539.2
30°	4330.6	4330.6	4439.7	4508.0	4462.5	4451.5	4389.4	4230.1	4132.7	4015.7	3658.5
32.5°	4542.5	4552.0	4640.7	4683.9	4632.8	4621.8	4561.4	4402.0	4329.0	4255.2	3844.6
35°	4747.4	4754.5	4838.5	4862.1	4813.4	4816.5	4773.4	4638.3	4610.8	4601.4	4124.9
37.5°	4946.1	4947.6	5033.2	5048.1	5023.8	5050.5	5054.4	4935.1	4986.1	5062.3	4519.8
40°	5127.4	5129.0	5213.8	5252.3	5293.9	5328.4	5359.0	5295.4	5464.2	5640.9	4990.0
42.5°	5272.7	5289.2	5396.7	5469.7	5579.6	5645.6	5728.8	5725.7	6033.4	6298.8	5558.4
45°	5400.6	5428.9	5578.9	5706.8	5895.2	6000.5	6130.8	6232.8	6674.1	7031.3	6133.9
47.5°	5569.4	5596.1	5767.3	5976.9	6228.1	6366.3	6582.2	6802.8	7378.3	7750.4	6696.0
50°	5807.3	5795.5	5964.3	6265.0	6587.7	6769.1	7076.8	7407.3	8077.0	8376.9	7026.6
52.5°	6060.9	6056.2	6181.0	6578.3	7011.6	7223.6	7630.3	8032.3	8745.1	8808.7	7178.1
55°	6374.9	6341.2	6446.4	6935.5	7514.9	7742.6	8221.5	8650.9	9277.4	9052.1	7254.2
57.5°	6703.9	6648.2	6748.6	7333.5	8082.5	8351.8	8876.2	9253.9	9631.5	9218.5	7253.5
60°	7043.8	6977.9	7097.2	7831.3	8787.5	9099.2	9586.0	9661.3	9962.0	9302.5	7200.1
62.5°	7328.0	7288.8	7466.2	8363.6	9575.0	9881.2	10122.2	10031.9	10240.7	9367.7	7075.2
65°	7628.7	7631.1	7917.6	8984.6	10411.9	10618.4	10638.8	10512.4	10473.9	9354.4	6652.9
67.5°	8035.4	8073.1	8551.2	9827.8	11226.0	11385.4	11383.8	11032.9	10644.3	8823.6	5716.2
70°	8465.6	8554.4	9281.3	10792.6	12114.7	12276.5	12193.2	11364.2	10022.5	7134.9	4045.6
72.5°	8393.4	8547.3	9687.2	11401.1	12753.0	12876.3	12335.4	10550.1	7921.6	4146.9	1722.5
75°	6475.4	6653.6	8882.5	10798.1	12083.3	11972.6	10598.7	8209.7	4329.0	1157.2	387.8
77.5°	3420.6	3515.6	5867.8	8226.2	9421.9	9190.3	7466.2	4554.3	1319.7	286.6	174.3
80°	1791.6	1813.6	2557.0	4667.4	5815.2	5816.7	4424.8	2000.4	544.1	146.8	117.0
82.5°	959.4	978.2	1351.1	2156.6	3046.9	2762.0	1694.2	1100.7	316.4	83.2	112.3
85°	230.8	234.7	766.2	985.3	1198.0	855.7	503.2	924.1	85.6	48.7	91.1
87.5°	88.7	90.3	284.2	426.3	305.4	197.8	235.5	344.7	11.0	18.8	14.1
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°	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4	3476.4
2.5°	3441.8	3421.4	3371.2	3307.6	3251.1	3210.2	3149.0	3109.0	3082.3	3081.5	3071.3
5°	3354.7	3313.1	3204.7	3076.0	2959.0	2853.8	2729.8	2631.6	2558.6	2546.8	2521.7
7.5°	3261.3	3193.0	3026.5	2825.5	2629.3	2429.9	2198.3	2054.6	1931.3	1872.4	1866.2
10°	3204.0	3108.2	2871.9	2581.4	2273.6	1949.4	1646.3	1436.7	1285.2	1242.0	1209.8
12.5°	3192.2	3065.8	2752.5	2352.1	1912.5	1483.8	1148.6	925.6	804.7	766.2	756.0
15°	3204.0	3046.2	2652.0	2125.2	1546.6	1052.8	771.0	641.4	595.9	584.9	584.1
17.5°	3211.0	3022.6	2538.2	1873.2	1191.8	752.1	590.4	552.7	545.6	544.9	546.4
20°	3210.2	2986.5	2402.4	1592.2	886.4	591.2	533.9	526.0	524.4	525.2	524.4
22.5°	3204.7	2944.1	2253.2	1302.5	669.7	528.4	509.5	504.8	504.0	504.0	504.0
25°	3214.9	2910.3	2089.1	1025.3	551.9	499.3	487.5	483.6	482.8	482.8	481.3
27.5°	3251.8	2891.5	1909.3	789.0	498.5	473.4	464.0	463.2	460.8	460.1	461.6
30°	3311.5	2891.5	1712.3	613.9	466.3	446.7	439.7	438.1	437.3	436.5	437.3
32.5°	3416.7	2913.5	1497.2	510.3	435.7	416.9	412.2	414.5	412.2	412.2	412.2
35°	3606.7	2979.4	1271.8	445.1	403.5	387.8	383.1	386.3	384.7	384.7	383.9
37.5°	3883.8	3101.9	1045.0	405.9	375.3	358.8	352.5	357.2	355.6	355.6	354.9
40°	4221.4	3280.1	829.1	376.1	347.8	330.5	325.0	327.4	323.5	323.5	325.0
42.5°	4638.3	3506.2	640.6	347.0	320.3	303.8	300.7	298.3	291.3	287.3	288.1
45°	5101.5	3741.7	499.3	318.7	294.4	281.1	276.4	270.1	258.3	250.4	251.2
47.5°	5515.3	3923.1	405.9	291.3	270.9	260.7	253.6	241.8	224.5	215.1	215.9
50°	5732.7	3950.6	345.4	263.8	248.9	238.7	228.5	210.4	190.0	179.8	179.0
52.5°	5788.5	3821.8	300.7	238.7	226.9	215.1	201.8	177.4	154.7	143.7	142.1
55°	5808.9	3625.6	260.7	215.1	203.3	190.0	172.7	145.2	124.0	113.1	112.3
57.5°	5741.4	3332.7	229.2	193.9	179.8	163.3	142.1	116.2	95.8	87.1	87.1
60°	5591.4	2936.2	204.9	171.1	155.4	136.6	114.6	90.3	71.4	64.4	64.4
62.5°	5292.3	2422.8	182.1	147.6	132.7	113.1	92.6	68.3	50.2	46.3	47.1
65°	4727.8	1837.9	159.4	126.4	113.1	93.4	72.2	48.7	33.8	33.8	35.3
67.5°	3855.6	1276.6	135.8	107.6	97.4	76.2	55.0	33.8	23.6	26.7	29.8
70°	2552.3	716.0	116.2	88.7	83.2	60.5	40.8	22.8	18.8	25.1	30.6
72.5°	963.3	278.7	97.4	71.4	72.2	46.3	29.0	17.3	17.3	27.5	36.1
75°	268.5	136.6	69.9	52.6	56.5	33.8	21.2	14.9	16.5	31.4	42.4
77.5°	157.8	100.5	45.5	30.6	38.5	23.6	14.1	11.8	14.1	26.7	40.8
80°	127.2	53.4	26.7	15.7	21.2	13.3	9.4	7.1	3.9	10.2	21.2
82.5°	127.2	32.2	12.6	11.0	11.0	7.1	4.7	3.1	0.8	0.0	5.5
85°	85.6	13.3	7.9	7.1	5.5	2.4	1.6	0.8	0.0	0.0	0.0
87.5°	14.1	5.5	3.1	1.6	0.8	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)