

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: P324768

Luminaire Tested: **GAN-SA4C-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4C-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21270 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

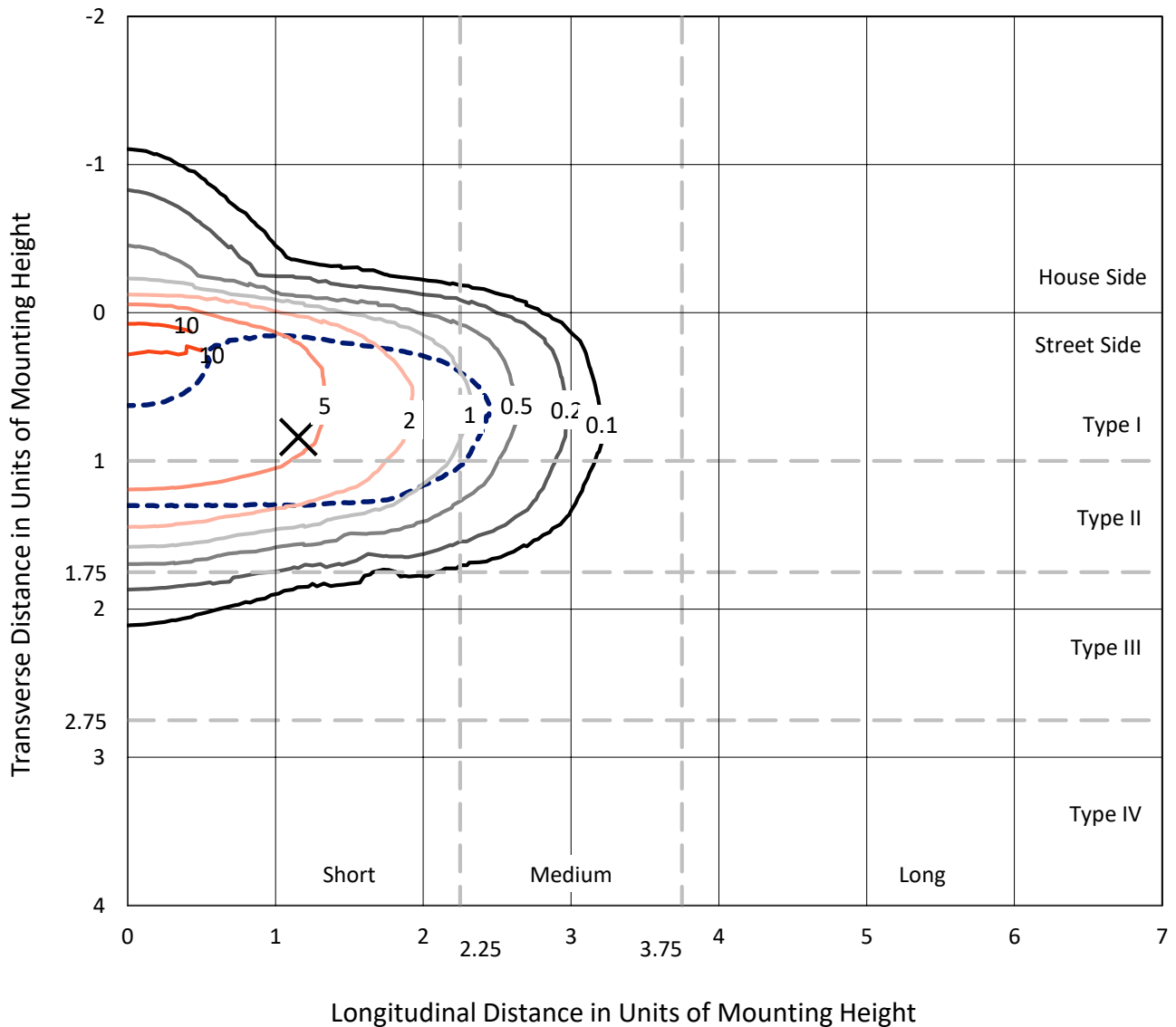
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324768  
 CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

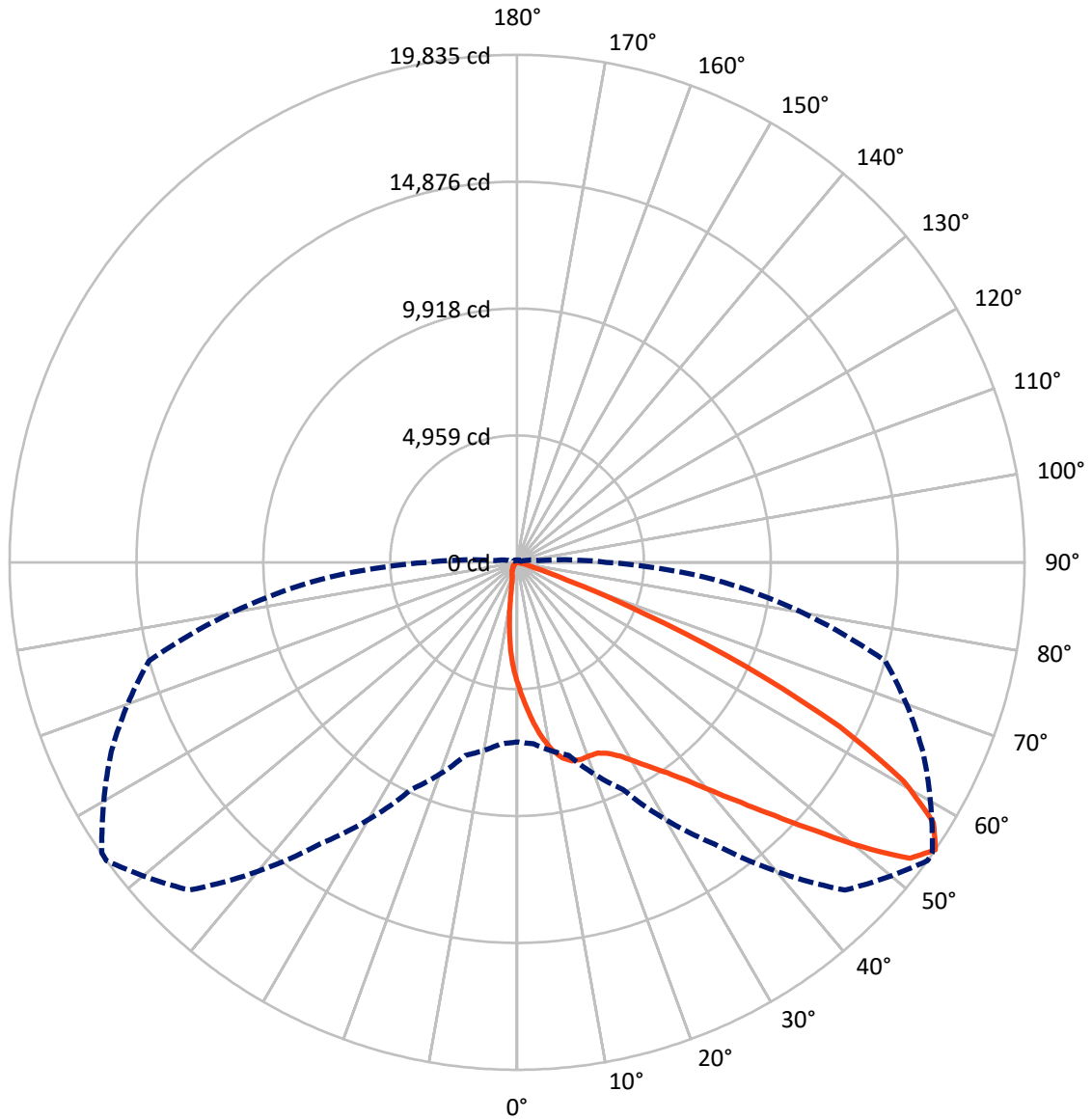
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P324768  
CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P324768  
 CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1061.2	0.0	1061.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	20208.8	0.0	20208.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	21270.0	0.0	21270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.7	2.1
10°-20°	1203.1	5.7
20°-30°	2054.1	9.7
30°-40°	3296.4	15.5
40°-50°	5267.7	24.8
50°-60°	5644.5	26.5
60°-70°	2898.0	13.6
70°-80°	439.0	2.1
80°-90°	28.6	0.1
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°	21270.0	100.0
0°-180°	21270.0	100.0

**Coefficient of Utilization**

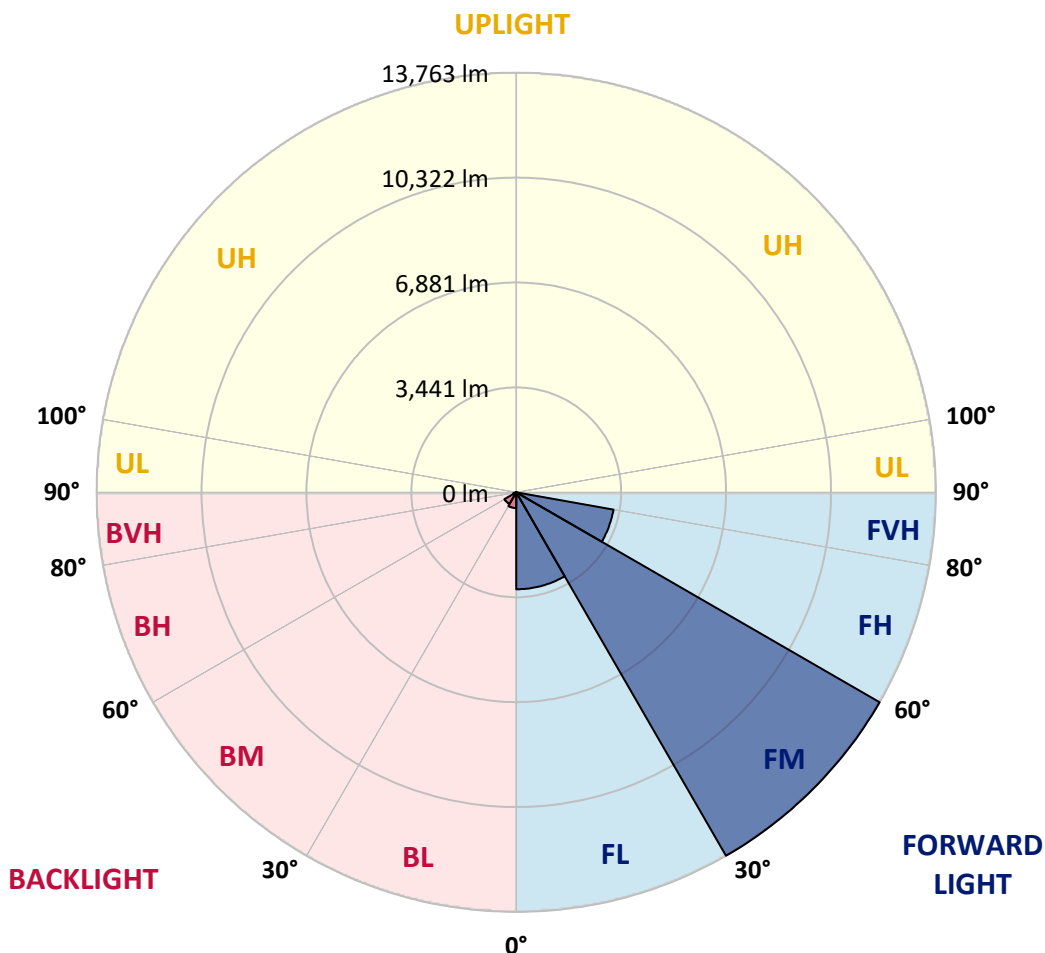


REPORT NUMBER: P324768  
 CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3179.5	14.9			
FM (30°-60°)	13762.6	64.7			
FH (60°-80°)	3239.2	15.2			G2/5000
FVH (80°-90°)	27.4	0.1			G1/100
BL (0°-30°)	516.3	2.4	B2/1000		
BM (30°-60°)	446.0	2.1	B1/1000		
BH (60°-80°)	97.8	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2**  
 Type II Short





REPORT NUMBER: P324768  
 CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6
2.5°	5978.0	5888.9	5891.6	5851.2	5703.3	5587.6	5467.2	5438.8	5251.4	5054.8	4865.6
5°	7011.3	6946.1	6930.5	6852.4	6646.7	6429.0	6195.7	6141.5	5775.0	5372.6	4976.7
7.5°	7542.3	7543.2	7530.3	7501.8	7373.2	7162.0	6877.2	6820.3	6321.5	5718.0	5092.5
10°	7387.9	7422.8	7494.5	7589.1	7687.4	7660.7	7446.7	7395.3	6853.3	6083.6	5221.1
12.5°	7027.9	7032.5	7112.4	7267.6	7550.5	7840.8	7844.5	7827.0	7361.3	6465.7	5362.5
15°	6848.7	6866.2	6895.6	6995.7	7263.9	7728.7	8061.2	8086.0	7827.0	6871.7	5513.2
17.5°	6966.3	6991.1	6966.3	6978.3	7133.5	7551.4	8098.9	8162.3	8233.9	7273.1	5655.5
20°	7285.1	7308.0	7263.9	7215.2	7245.6	7500.0	8072.3	8157.7	8552.7	7629.5	5775.0
22.5°	7714.9	7724.1	7657.1	7577.2	7555.1	7674.5	8094.3	8182.5	8808.0	7951.9	5850.3
25°	8188.0	8196.3	8112.7	8020.8	7968.5	8017.1	8275.3	8341.4	9033.1	8259.6	5893.4
27.5°	8703.3	8710.7	8605.9	8493.0	8432.3	8434.2	8573.8	8644.5	9272.8	8610.5	5928.4
30°	9248.0	9244.3	9147.9	8990.8	8913.7	8911.8	9003.7	9075.3	9620.0	9060.6	5976.1
32.5°	9859.8	9852.4	9715.6	9520.8	9433.6	9446.4	9528.2	9569.5	10050.8	9540.1	6061.5
35°	10665.3	10644.2	10437.5	10196.0	10035.2	10030.6	10099.5	10132.6	10600.1	10120.6	6203.9
37.5°	11710.7	11691.4	11411.2	11060.3	10834.4	10749.8	10831.6	10873.9	11383.7	10865.6	6432.6
40°	12741.3	12722.0	12555.7	12234.2	11886.1	11683.1	11747.4	11792.4	12361.9	11769.4	6721.1
42.5°	13452.2	13468.8	13526.6	13553.3	13227.2	12801.0	12830.4	12877.2	13389.8	12735.8	7050.8
45°	13639.6	13675.4	14002.5	14644.5	14766.7	14434.2	14126.5	14152.2	14434.2	13702.1	7380.6
47.5°	13076.5	13142.7	13773.7	14967.9	16002.1	16237.3	15654.9	15620.9	15436.3	14483.8	7614.8
50°	11797.0	11857.6	12675.1	14441.5	16376.9	17958.7	17486.5	17386.4	16315.4	14951.3	7697.5
52.5°	9945.2	10018.7	10682.8	12784.4	15670.5	18726.6	19220.8	19137.2	16960.2	14988.1	7711.3
55°	7023.3	7112.4	7815.1	9798.2	13432.0	18115.7	19835.3	19810.5	17495.7	14890.7	7740.7
57.5°	3947.0	4011.3	4769.1	6281.1	9837.7	15778.9	19193.2	19357.6	17819.0	14721.7	7784.8
60°	1752.6	1770.1	2162.3	3126.8	5759.3	12058.8	17355.2	17632.6	17541.6	14495.7	7859.2
62.5°	971.8	957.1	957.1	1299.8	2503.1	7465.1	14152.2	14610.5	16357.6	14228.4	7862.8
65°	761.5	747.7	708.2	713.7	953.5	3313.2	9800.1	10614.8	14109.0	13444.9	7598.3
67.5°	645.7	633.8	594.3	578.7	592.5	1093.1	5384.6	6230.6	10705.8	11408.5	6581.4
70°	545.6	537.4	517.1	497.9	463.0	540.1	2060.3	2635.3	6597.1	7589.1	4492.7
72.5°	439.1	435.4	442.7	426.2	384.0	360.1	704.5	853.3	2963.3	3386.7	1850.9
75°	378.4	376.6	380.3	363.7	316.0	250.8	358.2	391.3	835.9	828.5	374.8
77.5°	246.2	248.9	315.1	307.7	271.9	167.2	185.5	200.2	253.5	190.1	113.9
80°	157.1	155.2	159.8	255.4	244.3	127.7	92.8	97.4	122.2	93.7	55.1
82.5°	95.5	93.7	104.7	119.4	123.1	89.1	57.0	57.9	76.2	60.6	29.4
85°	8.3	11.0	63.4	58.8	42.3	27.6	27.6	29.4	40.4	35.8	16.5
87.5°	0.0	0.0	11.0	16.5	9.2	10.1	10.1	11.0	15.6	15.6	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324768

CATALOG NUMBER: GAN-SA4C-730-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6	4763.6
2.5°	4767.3	4671.8	4478.9	4293.3	4136.3	3984.7	3812.0	3641.2	3561.2	3529.1	3496.0
5°	4775.6	4579.0	4181.3	3780.8	3365.6	2991.7	2673.0	2346.0	2182.5	2110.8	2077.8
7.5°	4786.6	4487.1	3844.2	3171.8	2503.1	1996.0	1553.3	1268.5	1145.4	1126.1	1078.4
10°	4788.4	4376.0	3452.8	2499.4	1678.2	1203.3	925.9	778.9	724.7	715.6	699.9
12.5°	4792.1	4244.6	3018.4	1850.9	1118.8	804.7	669.6	620.9	606.2	605.3	605.3
15°	4803.1	4106.9	2567.4	1333.7	803.7	637.5	587.9	568.6	563.1	565.8	564.9
17.5°	4803.1	3944.3	2124.6	993.9	649.4	573.2	545.6	532.8	530.9	533.7	534.6
20°	4768.2	3746.8	1718.6	773.4	575.9	531.8	507.0	495.1	490.5	492.3	493.3
22.5°	4684.6	3504.3	1387.9	640.2	527.3	494.2	467.5	449.2	441.8	442.7	442.7
25°	4554.2	3216.8	1085.7	553.9	487.8	453.8	422.5	401.4	396.8	395.9	397.7
27.5°	4387.0	2899.0	864.4	487.8	440.9	408.8	377.5	360.1	356.4	357.3	358.2
30°	4222.6	2569.2	681.6	431.7	388.5	358.2	334.4	326.1	326.1	328.8	329.8
32.5°	4072.0	2252.3	539.2	383.0	341.7	314.1	300.4	299.4	304.0	305.9	306.8
35°	3942.4	1959.3	446.4	345.4	305.0	281.1	276.5	280.2	285.7	289.3	290.3
37.5°	3850.6	1697.5	390.4	314.1	276.5	257.2	256.3	263.6	271.0	279.2	281.1
40°	3812.0	1476.1	351.8	286.6	253.5	238.8	236.1	246.2	260.0	271.9	273.7
42.5°	3779.9	1295.2	318.7	260.0	235.2	214.0	213.1	226.0	242.5	254.4	257.2
45°	3752.3	1150.0	288.4	231.5	211.3	183.7	186.5	203.0	215.9	228.7	231.5
47.5°	3695.3	1030.6	255.4	201.2	174.5	157.1	162.6	177.3	187.4	206.7	209.4
50°	3593.4	933.3	221.4	164.4	142.4	135.9	144.2	154.3	167.2	183.7	185.5
52.5°	3524.5	859.8	192.0	137.8	117.6	119.4	127.7	131.4	138.7	145.1	143.3
55°	3485.0	819.4	168.1	119.4	100.1	105.6	107.5	102.9	99.2	92.8	90.0
57.5°	3480.4	782.6	149.7	103.8	88.2	90.9	84.5	68.9	56.0	48.7	46.8
60°	3473.1	737.6	135.0	87.3	78.1	74.4	60.6	37.7	26.6	24.8	24.8
62.5°	3393.1	667.8	124.0	73.5	66.1	56.0	34.9	17.5	14.7	15.6	15.6
65°	3138.7	570.4	113.0	59.7	52.4	40.4	17.5	10.1	5.5	6.4	6.4
67.5°	2668.4	454.7	101.0	45.9	39.5	25.7	10.1	4.6	0.0	0.0	0.0
70°	1786.6	282.0	85.4	32.1	25.7	15.6	7.3	0.9	0.0	0.0	0.0
72.5°	685.2	152.5	68.9	19.3	16.5	11.0	4.6	0.0	0.0	0.0	0.0
75°	154.3	100.1	47.8	13.8	11.9	7.3	1.8	0.0	0.0	0.0	0.0
77.5°	58.8	72.6	27.6	9.2	8.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	28.5	43.2	12.9	5.5	4.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	16.5	5.5	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	8.3	2.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	0.9	0.9	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)