

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: P324818

Luminaire Tested: **GAN-SA4D-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324818  
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-SA4D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA 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: 25623 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

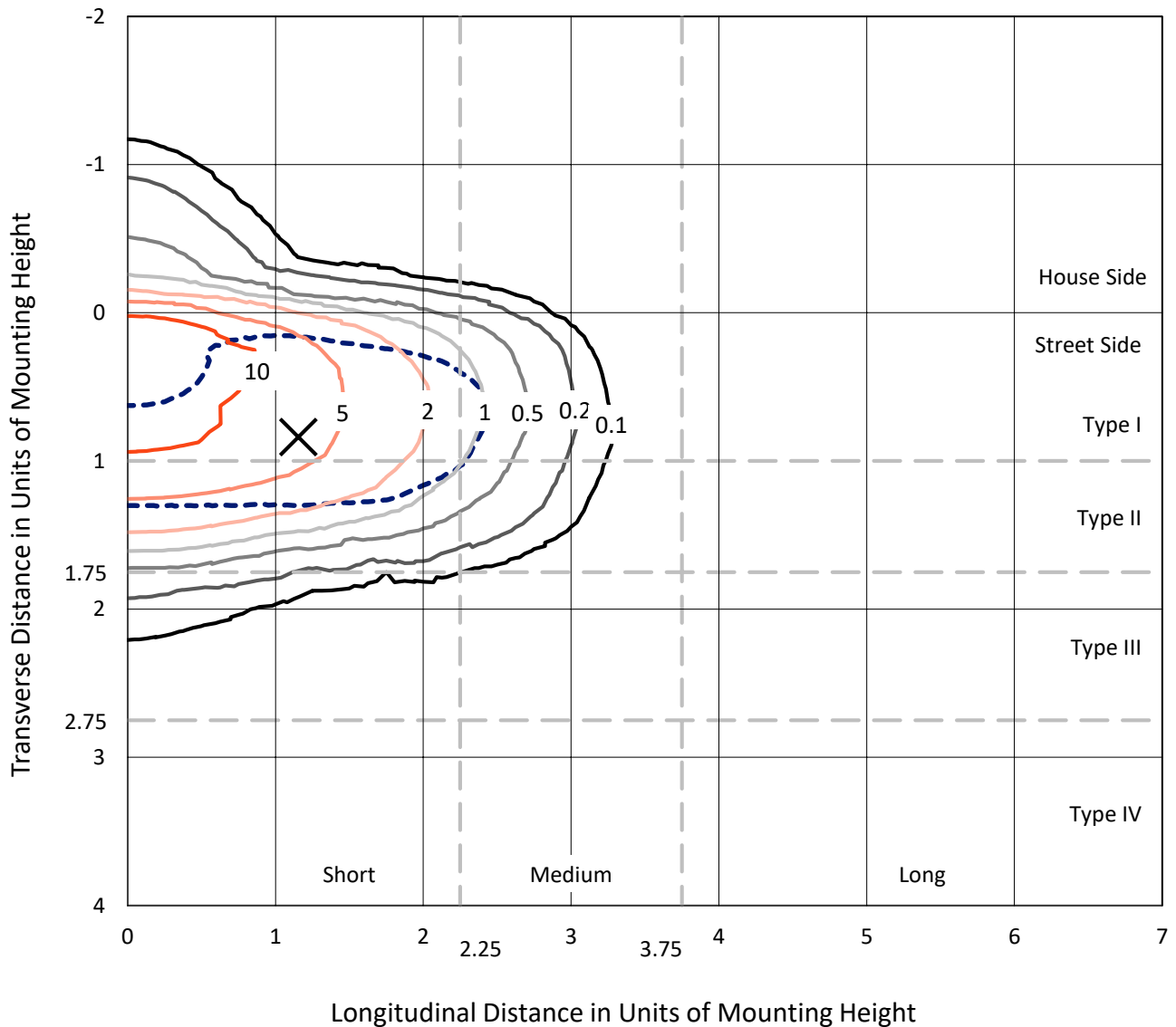
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324818  
 CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

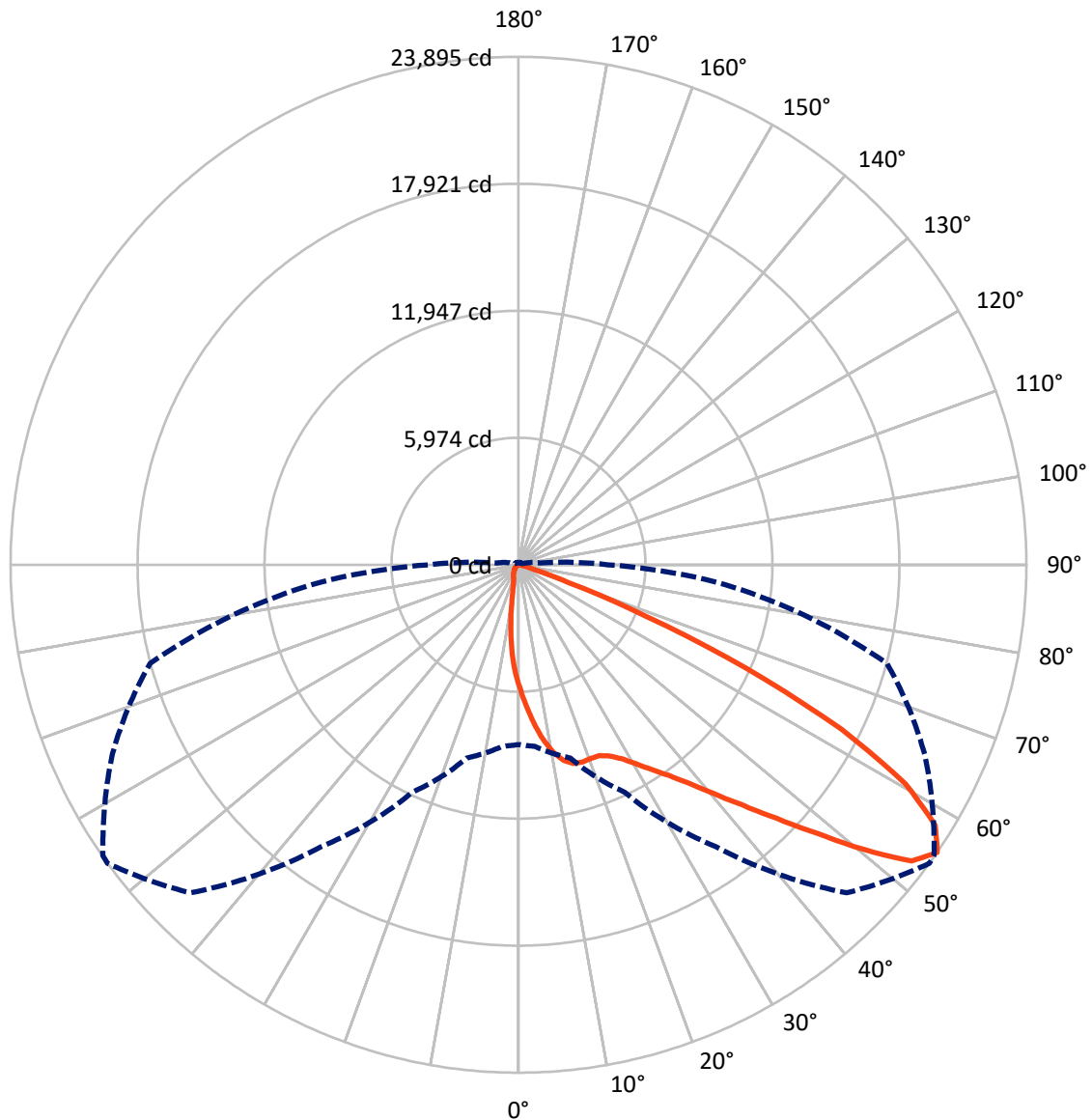
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P324818  
CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P324818  
 CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1278.4	0.0	1278.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	24344.6	0.0	24344.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	25623.0	0.0	25623.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	528.4	2.1
10°-20°	1449.3	5.7
20°-30°	2474.4	9.7
30°-40°	3971.0	15.5
40°-50°	6345.7	24.8
50°-60°	6799.6	26.5
60°-70°	3491.1	13.6
70°-80°	528.8	2.1
80°-90°	34.4	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°	25623.0	100.0
0°-180°	25623.0	100.0

**Coefficient of Utilization**



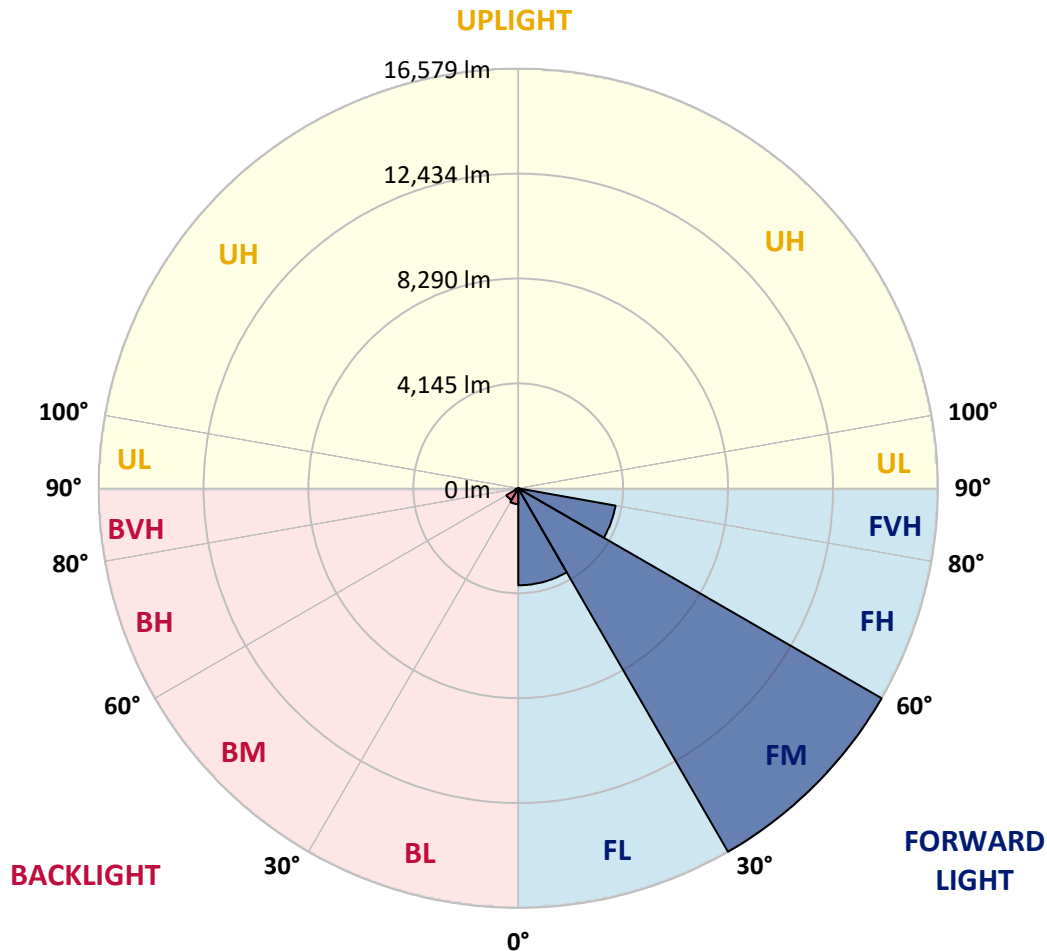
REPORT NUMBER: P324818  
 CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3830.2	14.9			
FM (30°-60°)	16579.2	64.7			
FH (60°-80°)	3902.1	15.2			G2/5000
FVH (80°-90°)	33.0	0.1			G1/100
BL (0°-30°)	622.0	2.4	B2/1000		
BM (30°-60°)	537.2	2.1	B1/1000		
BH (60°-80°)	117.8	0.5	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P324818

CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5
2.5°	7201.4	7094.0	7097.4	7048.7	6870.5	6731.1	6586.1	6551.8	6326.1	6089.3	5861.3
5°	8446.2	8367.7	8348.9	8254.8	8006.9	7744.7	7463.6	7398.3	6956.8	6472.2	5995.2
7.5°	9085.8	9086.9	9071.4	9037.1	8882.2	8627.7	8284.7	8216.1	7615.2	6888.2	6134.7
10°	8899.9	8942.0	9028.3	9142.2	9260.6	9228.6	8970.7	8908.8	8255.9	7328.6	6289.6
12.5°	8466.1	8471.7	8567.9	8755.0	9095.8	9445.4	9449.9	9428.8	8867.8	7788.9	6460.0
15°	8250.4	8271.4	8306.8	8427.4	8750.5	9310.4	9711.0	9740.9	9428.8	8278.0	6641.5
17.5°	8392.0	8421.9	8392.0	8406.4	8593.4	9096.9	9756.4	9832.7	9919.0	8761.6	6813.0
20°	8776.0	8803.6	8750.5	8691.9	8728.4	9034.9	9724.3	9827.2	10303.0	9190.9	6956.8
22.5°	9293.8	9304.9	9224.1	9127.9	9101.3	9245.2	9750.8	9857.1	10610.6	9579.3	7047.6
25°	9863.7	9873.7	9773.0	9662.3	9599.2	9657.9	9968.8	10048.5	10881.7	9950.0	7099.6
27.5°	10484.5	10493.3	10367.2	10231.1	10158.0	10160.3	10328.5	10413.7	11170.5	10372.7	7141.6
30°	11140.7	11136.2	11020.0	10830.8	10737.9	10735.7	10846.3	10932.6	11588.8	10914.9	7199.2
32.5°	11877.6	11868.8	11703.9	11469.3	11364.2	11379.7	11478.2	11527.9	12107.8	11492.5	7302.1
35°	12848.1	12822.6	12573.6	12282.6	12089.0	12083.4	12166.4	12206.3	12769.5	12191.9	7473.6
37.5°	14107.3	14084.1	13746.6	13323.9	13051.7	12949.9	13048.3	13099.2	13713.4	13089.3	7749.1
40°	15348.8	15325.6	15125.3	14738.0	14318.6	14074.1	14151.6	14205.8	14891.8	14178.1	8096.6
42.5°	16205.3	16225.2	16294.9	16327.0	15934.2	15420.8	15456.2	15512.6	16130.1	15342.2	8493.8
45°	16431.0	16474.2	16868.1	17641.6	17788.8	17388.2	17017.5	17048.5	17388.2	16506.3	8891.1
47.5°	15752.7	15832.4	16592.6	18031.1	19277.1	19560.3	18858.8	18817.8	18595.4	17447.9	9173.2
50°	14211.3	14284.3	15269.2	17397.0	19728.5	21634.0	21065.2	20944.6	19654.4	18011.2	9272.8
52.5°	11980.5	12069.0	12869.1	15400.8	18877.6	22559.1	23154.4	23053.7	20431.2	18055.4	9289.4
55°	8460.6	8567.9	9414.5	11803.5	16181.0	21823.2	23894.7	23864.8	21076.3	17938.1	9324.8
57.5°	4754.8	4832.3	5745.2	7566.5	11851.1	19008.2	23121.2	23319.3	21465.8	17734.5	9377.9
60°	2111.3	2132.3	2604.8	3766.7	6938.0	14526.7	20907.0	21241.2	21131.6	17462.3	9467.6
62.5°	1170.7	1153.0	1153.0	1565.8	3015.3	8992.9	17048.5	17600.6	19705.3	17140.3	9472.0
65°	917.3	900.7	853.1	859.8	1148.6	3991.3	11805.7	12787.2	16996.5	16196.4	9153.3
67.5°	777.9	763.5	715.9	697.1	713.7	1316.8	6486.5	7505.7	12896.7	13743.2	7928.4
70°	657.3	647.3	623.0	599.7	557.7	650.6	2482.0	3174.7	7947.2	9142.2	5412.1
72.5°	528.9	524.5	533.4	513.4	462.5	433.8	848.7	1028.0	3569.7	4079.8	2229.7
75°	455.9	453.7	458.1	438.2	380.7	302.1	431.6	471.4	1007.0	998.1	451.5
77.5°	296.6	299.9	379.5	370.7	327.5	201.4	223.5	241.2	305.4	229.1	137.2
80°	189.2	187.0	192.5	307.6	294.3	153.8	111.8	117.3	147.2	112.9	66.4
82.5°	115.1	112.9	126.1	143.9	148.3	107.3	68.6	69.7	91.8	73.0	35.4
85°	10.0	13.3	76.4	70.8	50.9	33.2	33.2	35.4	48.7	43.2	19.9
87.5°	0.0	0.0	13.3	19.9	11.1	12.2	12.2	13.3	18.8	18.8	10.0
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: P324818  
 CATALOG NUMBER: GAN-SA4D-740-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5	5738.5
2.5°	5742.9	5627.9	5395.5	5172.0	4982.8	4800.2	4592.1	4386.3	4290.1	4251.3	4211.5
5°	5752.9	5516.1	5037.0	4554.5	4054.4	3604.0	3220.0	2826.1	2629.1	2542.8	2503.0
7.5°	5766.2	5405.5	4630.9	3820.9	3015.3	2404.5	1871.2	1528.1	1379.9	1356.6	1299.1
10°	5768.4	5271.6	4159.5	3010.9	2021.7	1449.6	1115.4	938.3	873.1	862.0	843.2
12.5°	5772.8	5113.3	3636.1	2229.7	1347.8	969.3	806.7	748.0	730.3	729.2	729.2
15°	5786.1	4947.3	3092.8	1606.7	968.2	767.9	708.2	684.9	678.3	681.6	680.5
17.5°	5786.1	4751.5	2559.4	1197.3	782.3	690.5	657.3	641.8	639.6	642.9	644.0
20°	5744.1	4513.6	2070.3	931.7	693.8	640.7	610.8	596.4	590.9	593.1	594.2
22.5°	5643.4	4221.5	1672.0	771.3	635.2	595.3	563.2	541.1	532.2	533.4	533.4
25°	5486.2	3875.1	1307.9	667.2	587.6	546.6	509.0	483.6	478.0	476.9	479.1
27.5°	5284.8	3492.2	1041.3	587.6	531.1	492.4	454.8	433.8	429.3	430.4	431.6
30°	5086.8	3095.0	821.1	520.1	468.1	431.6	402.8	392.8	392.8	396.1	397.2
32.5°	4905.3	2713.2	649.5	461.4	411.6	378.4	361.8	360.7	366.3	368.5	369.6
35°	4749.3	2360.3	537.8	416.1	367.4	338.6	333.1	337.5	344.1	348.6	349.7
37.5°	4638.6	2044.9	470.3	378.4	333.1	309.8	308.7	317.6	326.4	336.4	338.6
40°	4592.1	1778.2	423.8	345.2	305.4	287.7	284.4	296.6	313.2	327.5	329.7
42.5°	4553.4	1560.2	384.0	313.2	283.3	257.8	256.7	272.2	292.1	306.5	309.8
45°	4520.2	1385.4	347.5	278.8	254.5	221.3	224.6	244.5	260.0	275.5	278.8
47.5°	4451.6	1241.5	307.6	242.3	210.2	189.2	195.9	213.6	225.7	249.0	252.3
50°	4328.8	1124.2	266.7	198.1	171.5	163.8	173.7	185.9	201.4	221.3	223.5
52.5°	4245.8	1035.7	231.3	166.0	141.6	143.9	153.8	158.2	167.1	174.8	172.6
55°	4198.2	987.0	202.5	143.9	120.6	127.3	129.5	123.9	119.5	111.8	108.4
57.5°	4192.7	942.8	180.4	125.0	106.2	109.5	101.8	83.0	67.5	58.6	56.4
60°	4183.8	888.6	162.7	105.1	94.1	89.6	73.0	45.4	32.1	29.9	29.9
62.5°	4087.6	804.5	149.4	88.5	79.7	67.5	42.0	21.0	17.7	18.8	18.8
65°	3781.1	687.2	136.1	71.9	63.1	48.7	21.0	12.2	6.6	7.7	7.7
67.5°	3214.5	547.7	121.7	55.3	47.6	31.0	12.2	5.5	0.0	0.0	0.0
70°	2152.2	339.7	102.9	38.7	31.0	18.8	8.9	1.1	0.0	0.0	0.0
72.5°	825.5	183.7	83.0	23.2	19.9	13.3	5.5	0.0	0.0	0.0	0.0
75°	185.9	120.6	57.5	16.6	14.4	8.9	2.2	0.0	0.0	0.0	0.0
77.5°	70.8	87.4	33.2	11.1	10.0	5.5	0.0	0.0	0.0	0.0	0.0
80°	34.3	52.0	15.5	6.6	5.5	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	19.9	6.6	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	10.0	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	3.3	1.1	1.1	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)