

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: P321929

Luminaire Tested: **GAN-SA5C-740-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25149 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 279  
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

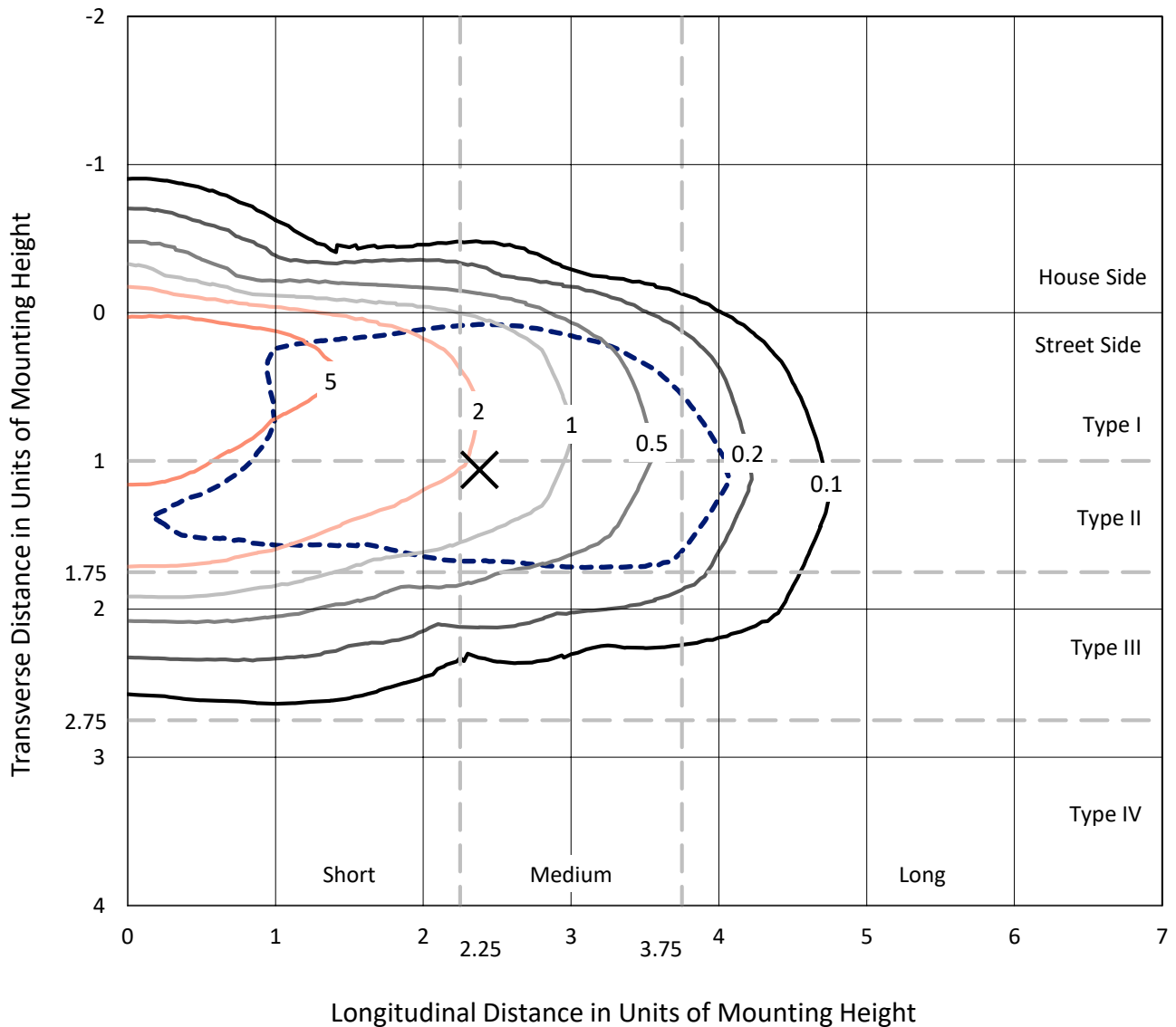




REPORT NUMBER: P321929  
 CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

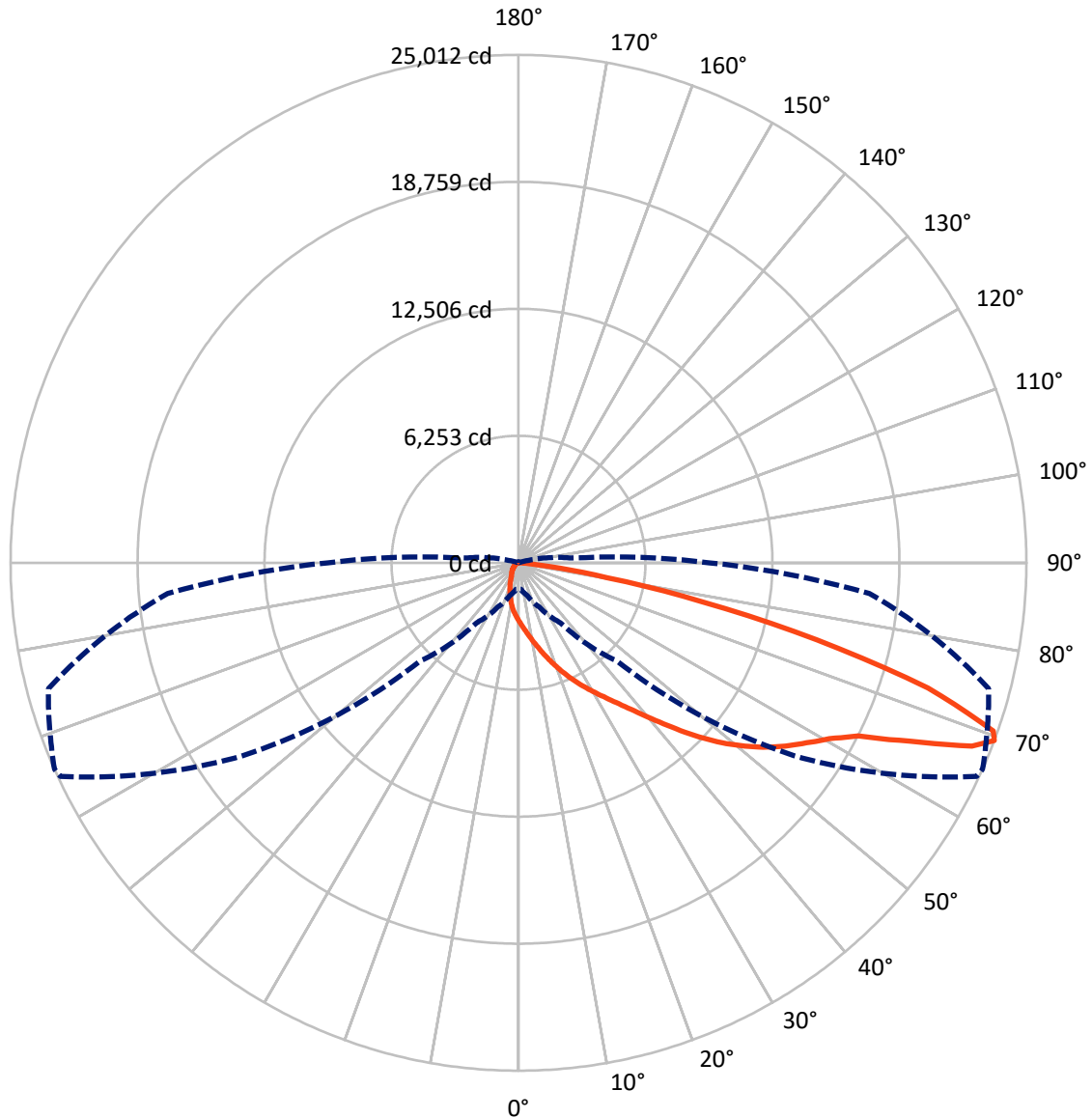
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321929  
CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P321929  
 CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1508.6	0.0	1508.6
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	23640.4	0.0	23640.4
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	25149.0	0.0	25149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.1
10°-20°	823.4	3.3
20°-30°	1433.8	5.7
30°-40°	2515.6	10.0
40°-50°	4210.7	16.7
50°-60°	6189.3	24.6
60°-70°	6354.9	25.3
70°-80°	3137.2	12.5
80°-90°	207.4	0.8
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°	25149.0	100.0
0°-180°	25149.0	100.0

**Coefficient of Utilization**

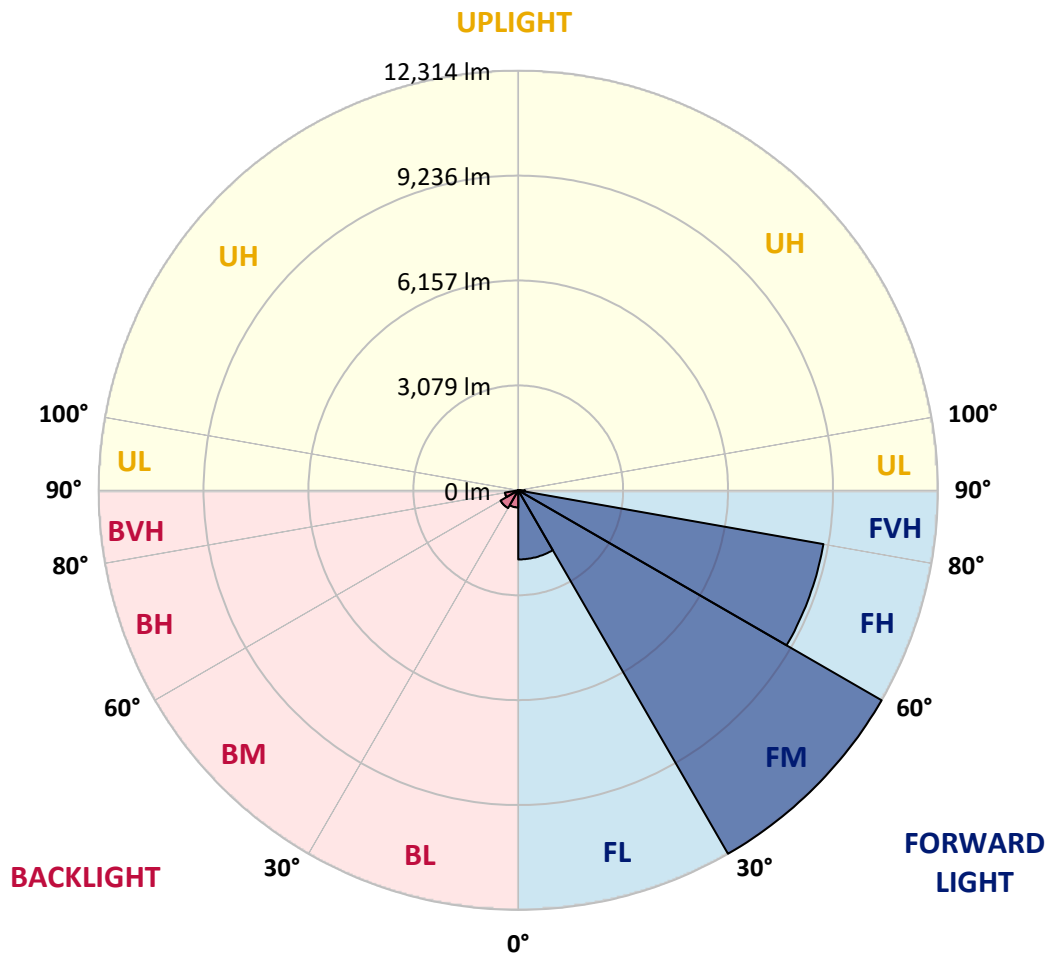


REPORT NUMBER: P321929  
 CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2029.3	8.1			
FM (30°-60°)	12314.2	49.0			
FH (60°-80°)	9094.6	36.2			G4/12000
FVH (80°-90°)	202.4	0.8			G2/225
BL (0°-30°)	504.5	2.0	B2/1000		
BM (30°-60°)	601.5	2.4	B1/1000		
BH (60°-80°)	397.6	1.6	B1/500		G1/500
BVH (80°-90°)	5.0	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 II Medium





REPORT NUMBER: P321929  
 CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	3368.5	3354.2	3348.2	3321.9	3276.5	3241.9	3175.0	3097.4	3083.0	3007.8	2915.8
5°	3805.7	3793.8	3785.4	3748.4	3701.8	3614.6	3492.7	3348.2	3320.7	3177.4	2993.4
7.5°	4110.3	4131.8	4131.8	4107.9	4049.4	3983.7	3834.4	3637.3	3602.6	3382.8	3097.4
10°	4288.3	4314.6	4334.9	4355.2	4346.8	4320.5	4179.6	3957.4	3915.6	3624.1	3218.0
12.5°	4305.0	4331.3	4388.6	4473.4	4555.8	4615.6	4527.2	4312.2	4264.4	3903.6	3361.3
15°	4211.8	4239.3	4327.7	4492.5	4692.0	4866.4	4895.1	4705.2	4656.2	4236.9	3540.5
17.5°	4049.4	4067.3	4193.9	4422.1	4735.0	5055.2	5228.4	5126.8	5081.4	4618.0	3740.0
20°	3928.7	3941.9	4053.0	4297.8	4708.7	5173.4	5543.7	5574.8	5527.0	5026.5	3956.2
22.5°	4135.4	4159.3	4162.9	4278.7	4637.1	5231.9	5820.8	6015.5	5979.7	5460.1	4168.8
25°	4700.4	4727.9	4637.1	4565.4	4698.0	5258.2	6058.5	6467.1	6438.4	5927.1	4382.6
27.5°	5446.9	5475.6	5358.6	5144.7	5016.9	5357.4	6270.0	6925.7	6924.6	6421.7	4613.2
30°	6180.4	6209.0	6089.6	5875.8	5581.9	5638.1	6452.7	7405.9	7413.1	6931.7	4858.1
32.5°	6949.6	6985.5	6862.4	6587.7	6280.7	6123.0	6709.5	7888.5	7929.1	7523.0	5134.0
35°	7824.0	7828.8	7655.6	7367.7	7014.1	6771.7	7121.6	8429.6	8526.4	8255.2	5484.0
37.5°	8681.7	8716.3	8574.2	8120.3	7795.3	7520.6	7734.4	9105.7	9243.1	9149.9	5941.5
40°	9317.1	9390.0	9369.7	8880.0	8571.8	8375.9	8495.3	9909.6	10084.0	10191.5	6518.4
42.5°	9716.1	9771.1	9864.2	9569.2	9289.7	9321.9	9393.6	10846.1	11061.1	11378.9	7181.4
45°	10173.6	10199.9	10277.5	10147.3	9958.6	10283.5	10346.8	11900.9	12126.6	12655.8	7917.2
47.5°	10732.6	10794.8	10816.3	10696.8	10610.8	11134.0	11265.4	12860.1	13176.6	14023.5	8696.0
50°	11444.6	11461.3	11498.3	11420.7	11334.7	11865.0	12089.6	13867.0	14154.9	15396.0	9464.1
52.5°	12141.0	12200.7	12329.7	12280.7	12246.1	12487.4	12824.2	14774.8	15096.2	16540.3	10230.9
55°	12341.6	12393.0	12838.6	13143.2	13425.1	13254.2	13526.6	15588.3	15935.9	17562.8	10969.2
57.5°	11540.1	11644.0	12415.7	13208.8	14378.3	14446.4	14491.7	16423.3	16735.0	18346.4	11737.2
60°	9514.2	9534.5	10800.7	12161.3	14220.6	15486.8	15901.3	17320.3	17581.9	19076.3	12657.0
62.5°	6051.4	6258.0	7647.2	9568.0	12553.1	15336.3	17605.8	18677.3	18772.9	19951.8	13975.7
65°	2882.3	3016.1	4017.1	5911.6	9092.6	13409.5	18782.4	21132.0	21175.0	21687.5	15737.6
67.5°	1595.9	1660.4	2137.0	3182.2	5315.6	9483.2	18307.0	24039.4	24080.1	23460.1	17283.3
69°	1248.3	1303.2	1678.3	2398.6	3603.8	6815.9	16566.6	24891.1	25011.8	23967.8	17338.3
70°	1059.5	1113.3	1445.4	2025.9	2897.9	5266.6	14746.2	24679.7	24807.5	23920.0	16928.5
72.5°	648.6	679.7	962.8	1426.2	1942.3	2649.4	9093.8	20871.6	21087.8	21941.9	14549.1
75°	437.2	453.9	602.0	984.3	1389.2	1364.1	4724.3	14711.5	15179.8	17068.3	10745.8
77.5°	313.0	328.5	403.7	636.7	973.5	900.7	2139.4	9142.8	9243.1	10236.9	5860.2
80°	178.0	192.3	285.5	378.7	660.6	600.8	850.5	4367.1	4417.3	4389.8	1956.6
82.5°	93.2	105.1	156.5	249.7	424.0	393.0	353.6	1462.1	1469.2	1222.0	428.8
85°	17.9	21.5	77.6	170.8	218.6	170.8	144.5	342.8	350.0	309.4	106.3
87.5°	0.0	1.2	31.1	38.2	43.0	44.2	46.6	66.9	71.7	96.8	28.7
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: P321929  
 CATALOG NUMBER: GAN-SA5C-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	2875.2	2832.2	2749.8	2654.2	2580.1	2507.3	2449.9	2390.2	2368.7	2358.0	2356.8
5°	2903.8	2813.1	2638.7	2459.5	2312.6	2174.0	2074.9	1980.5	1936.3	1916.0	1907.6
7.5°	2951.6	2805.9	2525.2	2251.6	2040.2	1867.0	1729.6	1626.9	1575.6	1554.1	1545.7
10°	3007.8	2796.3	2392.6	2031.9	1761.9	1582.7	1446.5	1345.0	1288.9	1265.0	1253.0
12.5°	3073.5	2779.6	2239.7	1809.7	1524.2	1345.0	1180.2	1054.7	990.2	962.8	949.6
15°	3154.7	2762.9	2079.6	1600.6	1315.2	1096.6	916.2	831.4	818.2	813.5	814.7
17.5°	3234.7	2736.6	1905.2	1394.0	1095.4	856.5	764.5	759.7	762.1	762.1	762.1
20°	3306.4	2676.9	1715.3	1217.2	886.3	722.7	703.6	695.2	689.2	684.5	678.5
22.5°	3362.5	2596.9	1532.6	1041.6	723.9	661.8	631.9	605.6	584.1	569.8	562.6
25°	3400.8	2490.5	1365.3	873.2	651.0	602.0	548.3	504.1	470.6	450.3	442.0
27.5°	3429.4	2375.9	1216.0	731.0	600.8	532.7	462.3	409.7	375.1	357.2	350.0
30°	3449.7	2245.7	1084.6	642.6	544.7	459.9	384.6	333.3	308.2	298.6	293.8
32.5°	3468.8	2101.1	960.4	600.8	492.1	393.0	322.5	283.1	267.6	255.6	252.0
35°	3516.6	1967.4	842.1	556.6	438.4	335.7	277.1	248.5	232.9	225.8	223.4
37.5°	3630.1	1868.2	728.6	511.2	384.6	290.3	242.5	222.2	207.8	200.7	198.3
40°	3812.9	1818.0	633.1	462.3	332.1	255.6	219.8	200.7	185.1	174.4	172.0
42.5°	4081.6	1825.2	566.2	413.3	290.3	228.2	198.3	175.6	158.9	149.3	146.9
45°	4407.7	1877.8	519.6	365.5	255.6	206.6	174.4	150.5	135.0	126.6	124.2
47.5°	4761.3	1962.6	481.4	322.5	228.2	186.3	150.5	125.4	112.3	105.1	103.9
50°	5134.0	2045.0	442.0	280.7	204.3	166.0	126.6	103.9	93.2	87.2	84.8
52.5°	5511.5	2140.6	406.1	242.5	184.0	142.1	105.1	84.8	76.4	71.7	69.3
55°	5917.6	2212.2	371.5	212.6	163.6	120.6	87.2	70.5	63.3	57.3	56.1
57.5°	6395.4	2323.3	335.7	184.0	139.8	100.3	71.7	56.1	50.2	44.2	43.0
60°	7040.4	2453.5	297.4	162.5	114.7	82.4	58.5	45.4	38.2	33.4	32.3
62.5°	7890.9	2598.1	249.7	142.1	93.2	66.9	46.6	35.8	27.5	21.5	21.5
65°	8969.5	2833.4	204.3	119.5	76.4	54.9	35.8	26.3	15.5	9.6	9.6
67.5°	9599.1	2874.0	164.8	97.9	62.1	46.6	29.9	17.9	4.8	1.2	0.0
69°	9397.2	2638.7	139.8	83.6	53.8	44.2	27.5	13.1	2.4	0.0	0.0
70°	9017.3	2412.9	123.0	74.1	49.0	41.8	26.3	9.6	2.4	0.0	0.0
72.5°	7451.3	1717.7	93.2	54.9	35.8	37.0	23.9	6.0	2.4	0.0	0.0
75°	5427.8	1044.0	66.9	38.2	22.7	27.5	16.7	2.4	1.2	0.0	0.0
77.5°	3019.7	492.1	41.8	21.5	14.3	16.7	8.4	0.0	0.0	0.0	0.0
80°	980.7	133.8	19.1	11.9	8.4	9.6	3.6	0.0	0.0	0.0	0.0
82.5°	181.6	38.2	10.8	6.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	39.4	15.5	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	4.8	1.2	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)