

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: McGRAW-EDISON

Report Number: P652130

Luminaire Tested: **GALN-SA9A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA 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: 26064.3 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

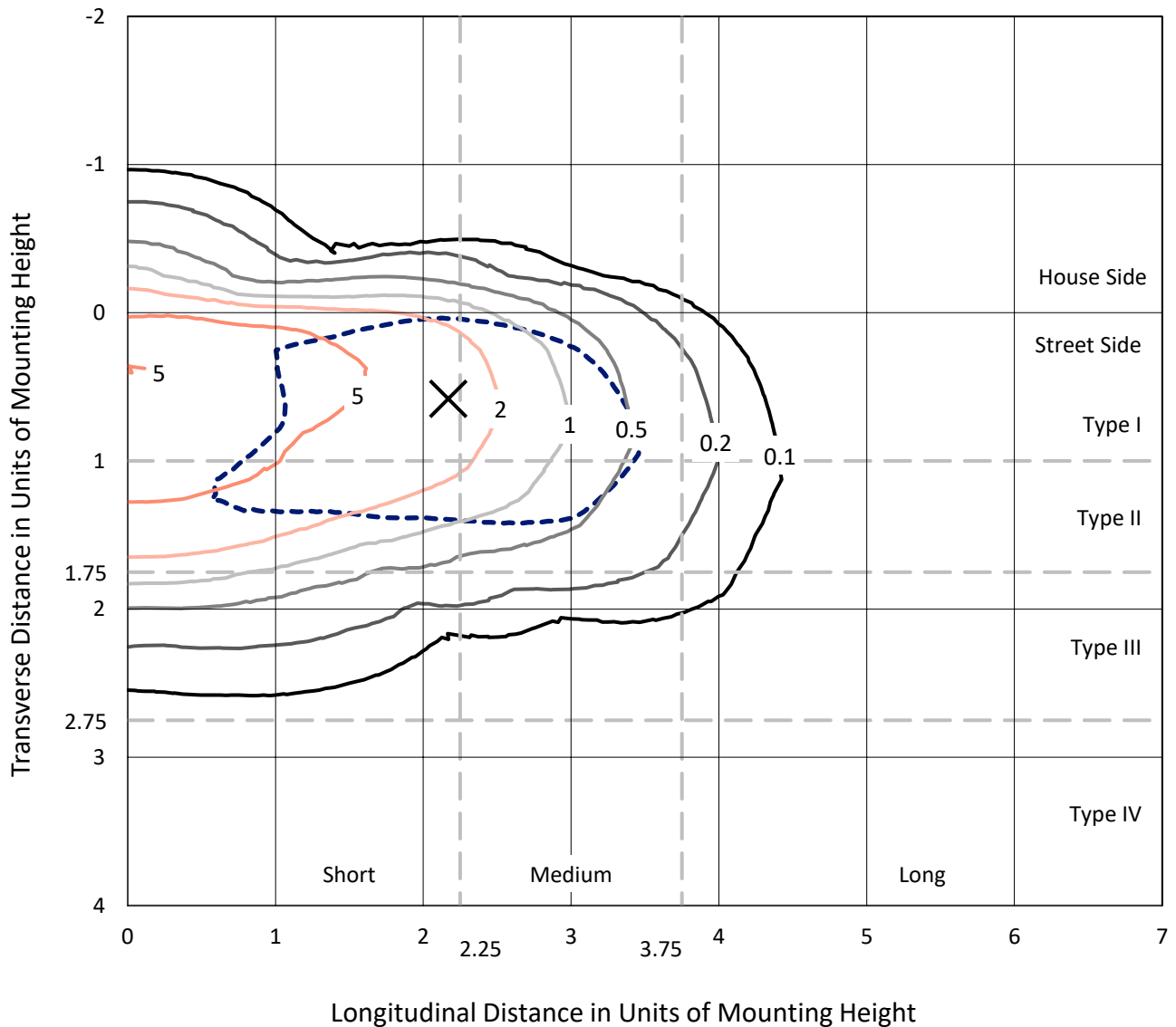
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652130  
 CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

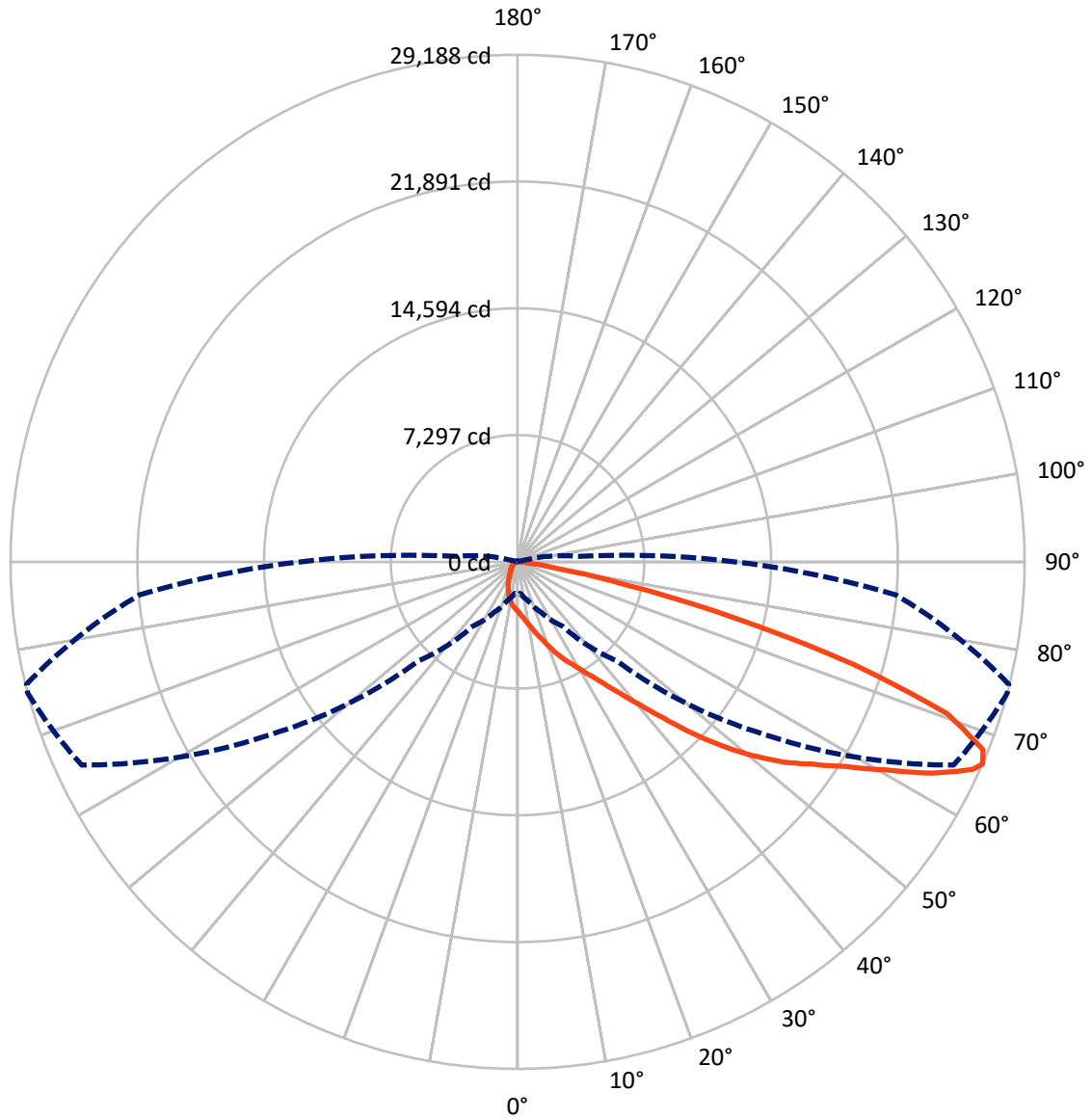
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P652130  
CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P652130  
 CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1609.1	0.0	1609.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24455.2	0.0	24455.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	26064.3	0.0	26064.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.9	1.1
10°-20°	809.1	3.1
20°-30°	1397.2	5.4
30°-40°	2520.2	9.7
40°-50°	4552.8	17.5
50°-60°	7097.8	27.2
60°-70°	6742.7	25.9
70°-80°	2527.0	9.7
80°-90°	142.6	0.5
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°	26064.3	100.0
0°-180°	26064.3	100.0

**Coefficient of Utilization**

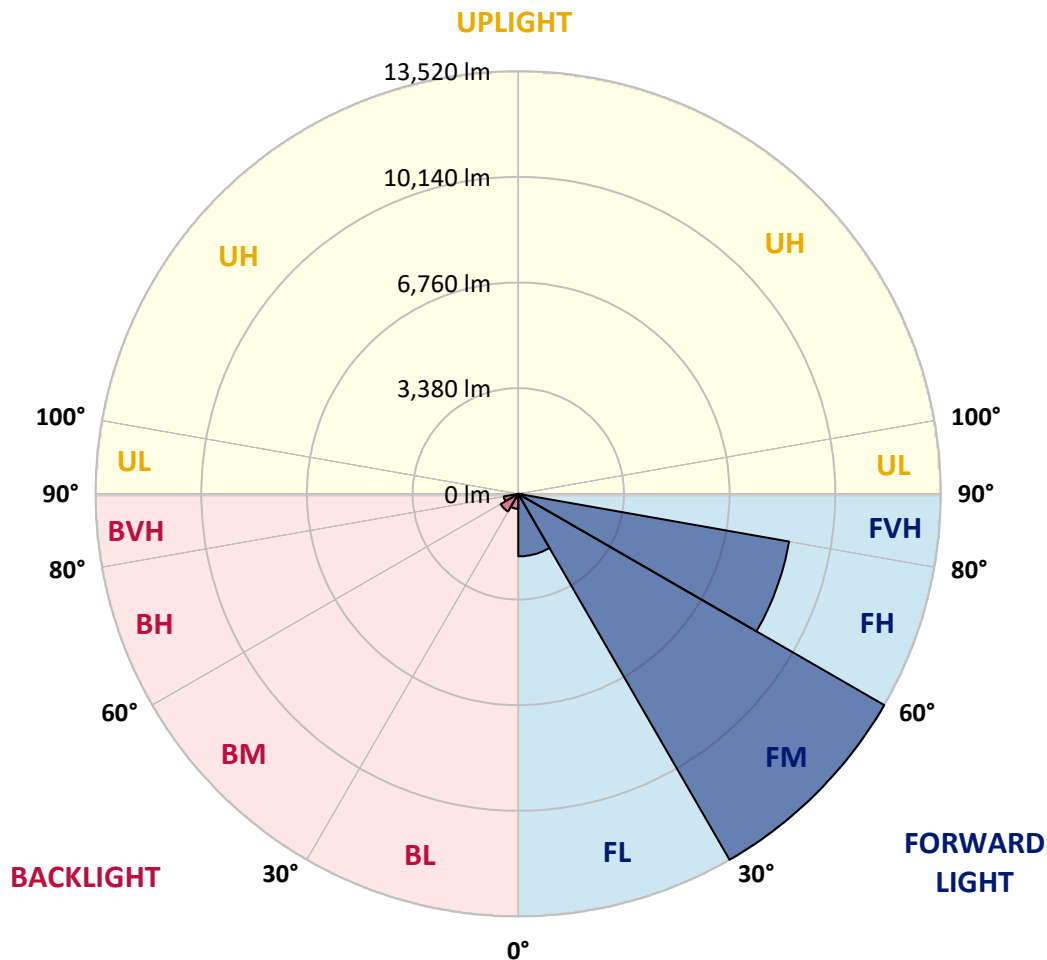


REPORT NUMBER: P652130  
 CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.7	7.7			
FM (30°-60°)	13519.5	51.9			
FH (60°-80°)	8799.8	33.8			G4/12000
FVH (80°-90°)	135.2	0.5			G2/225
BL (0°-30°)	480.5	1.8	B1/500		
BM (30°-60°)	651.3	2.5	B1/1000		
BH (60°-80°)	469.9	1.8	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Short





REPORT NUMBER: P652130

CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	3405.5	3363.0	3376.5	3357.3	3313.0	3247.4	3189.6	3106.7	3023.8	3010.4	2917.8
5°	3854.5	3842.9	3827.5	3771.6	3740.8	3640.5	3521.1	3378.5	3206.9	3176.1	3008.4
7.5°	4160.9	4155.1	4162.9	4133.9	4106.9	4016.4	3889.2	3694.5	3428.6	3411.2	3131.8
10°	4261.1	4276.6	4305.4	4351.7	4394.1	4365.2	4268.8	4026.0	3715.7	3665.6	3272.4
12.5°	4203.3	4220.6	4290.0	4413.4	4550.2	4629.2	4590.7	4413.4	4020.2	3979.8	3430.5
15°	4054.9	4076.1	4174.4	4365.2	4609.9	4833.5	4929.9	4802.7	4374.8	4309.3	3621.3
17.5°	3835.2	3866.1	4006.7	4259.2	4594.6	4980.0	5251.7	5209.3	4752.6	4690.9	3829.4
20°	3669.5	3692.6	3812.1	4101.1	4529.0	5061.0	5558.2	5677.7	5219.0	5112.9	4074.1
22.5°	3779.3	3787.0	3827.5	4001.0	4411.5	5082.2	5828.0	6165.2	5714.3	5619.8	4328.5
25°	4317.0	4239.9	4199.4	4160.9	4386.4	5062.8	6072.7	6674.0	6207.7	6107.4	4581.0
27.5°	5165.0	5130.3	4926.0	4652.3	4600.4	5087.9	6234.6	7155.8	6672.1	6564.2	4827.8
30°	6088.2	6028.4	5903.1	5502.2	5099.5	5265.2	6352.2	7624.2	7221.3	7078.8	5053.2
32.5°	6936.1	6974.7	6787.7	6375.3	5909.0	5642.9	6504.5	8134.9	7851.6	7674.3	5315.3
35°	7924.8	8001.9	7714.7	7319.6	6774.3	6325.2	6801.3	8711.1	8651.4	8427.8	5720.1
37.5°	8928.9	8975.2	8799.8	8244.7	7753.3	7192.5	7360.1	9422.2	9636.2	9445.4	6203.8
40°	9773.0	9836.6	9707.5	9214.2	8689.9	8196.6	8171.5	10197.0	10807.9	10611.4	6924.5
42.5°	10418.6	10466.8	10470.7	10121.9	9649.7	9426.1	9206.4	11185.7	12276.5	12049.1	7761.0
45°	11233.9	11303.3	11262.8	11025.8	10673.0	10632.6	10518.9	12380.6	14034.2	13747.0	8846.1
47.5°	12494.3	12540.6	12440.3	12160.9	11802.4	11866.0	11798.6	13720.0	15826.4	15579.8	9969.6
50°	13369.3	13446.3	13589.0	13700.7	13440.5	13205.5	13005.0	14970.8	17528.2	17306.6	11118.3
52.5°	13359.6	13486.8	13937.8	14500.5	15069.0	14997.8	14421.6	16352.7	19152.9	18879.2	12197.5
55°	12459.6	12706.2	13369.3	14367.6	15942.1	16726.5	16464.4	17952.2	20555.9	20370.9	13448.3
57.5°	10601.7	10752.1	11673.2	13068.6	15454.6	17539.8	18831.1	20120.3	22238.4	22151.7	15390.9
60°	7130.8	7198.2	8383.5	10108.4	13157.3	16728.4	20565.6	22743.3	24310.2	24267.8	17659.3
62.5°	4085.7	4114.7	4974.2	6429.3	9362.5	14176.7	20712.1	25979.2	26794.4	26817.6	20284.2
65°	2199.0	2214.4	2908.2	3773.6	5696.9	10104.5	18624.9	27752.2	28802.6	28846.9	21910.7
66°	1898.3	1825.1	2314.6	3216.6	4532.9	8042.4	17304.7	27688.7	29188.0	29139.8	21853.0
67.5°	1443.5	1509.0	1848.2	2472.6	3359.2	5718.1	14286.7	26457.1	28895.1	28744.8	20964.5
70°	1033.0	1060.0	1316.3	1763.4	2287.6	3137.5	9129.3	21974.4	26262.5	26060.2	18264.4
72.5°	666.8	695.8	932.8	1275.8	1653.6	1713.3	5111.0	15876.6	20247.6	20218.6	13754.7
75°	476.0	503.0	616.7	913.5	1243.1	1060.0	2461.1	10700.0	12872.0	12785.3	8508.7
77.5°	345.0	358.4	412.4	597.4	888.4	759.3	1140.9	5714.3	6408.1	6710.7	3760.0
80°	198.5	210.1	287.1	364.2	601.3	518.4	545.4	2293.4	2364.7	2251.0	1175.6
82.5°	98.3	111.8	171.6	248.6	375.8	348.8	250.5	690.0	728.5	709.2	296.8
85°	23.1	28.9	96.4	163.8	183.1	156.1	121.4	202.3	250.5	244.7	113.7
87.5°	1.9	3.9	34.6	28.9	30.9	52.1	42.4	52.1	80.9	75.2	40.5
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: P652130  
 CATALOG NUMBER: GALN-SA9A-840-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	2875.5	2838.8	2732.8	2628.7	2542.0	2451.4	2368.6	2320.4	2301.1	2280.0	2289.5
5°	2915.9	2827.3	2613.3	2428.3	2247.2	2093.0	1969.6	1890.7	1852.1	1846.3	1836.7
7.5°	2969.9	2817.6	2486.2	2197.0	1960.0	1788.5	1647.8	1534.1	1499.4	1468.6	1443.5
10°	3035.4	2800.3	2328.1	1954.2	1701.8	1485.9	1300.9	1166.0	1096.6	1077.3	1090.8
12.5°	3104.8	2767.5	2162.4	1730.7	1439.6	1164.0	992.5	925.1	905.8	898.1	900.0
15°	3174.2	2727.0	1988.9	1514.8	1146.7	929.0	849.9	832.6	824.9	821.0	817.1
17.5°	3237.8	2661.5	1794.3	1304.7	929.0	794.0	765.1	749.7	734.3	728.5	718.9
20°	3313.0	2586.3	1618.8	1069.6	786.3	718.9	684.2	655.2	632.1	616.7	614.8
22.5°	3384.3	2490.0	1435.8	886.5	717.0	645.6	589.7	558.9	531.9	512.7	518.4
25°	3422.8	2372.5	1272.0	772.8	653.4	572.4	510.7	472.1	443.3	433.6	431.7
27.5°	3422.8	2227.9	1112.1	707.3	595.5	506.9	443.3	406.6	387.4	373.9	375.8
30°	3395.8	2067.9	963.6	657.2	545.4	449.0	389.3	356.5	341.1	331.5	329.6
32.5°	3374.6	1915.7	836.5	609.0	493.4	399.0	346.9	321.9	306.5	296.8	296.8
35°	3407.4	1784.6	738.1	560.9	445.2	360.4	314.1	291.0	275.6	267.9	265.9
37.5°	3494.1	1665.1	663.0	508.8	400.9	327.7	291.0	264.0	248.6	239.0	235.1
40°	3708.0	1597.6	607.1	460.6	358.4	300.7	264.0	239.0	219.7	210.1	208.1
42.5°	4051.1	1599.6	553.1	416.3	325.7	277.5	240.9	212.0	190.8	181.2	179.2
45°	4567.6	1672.8	510.7	373.9	296.8	252.5	215.9	185.0	165.8	156.1	156.1
47.5°	5186.2	1815.5	474.1	337.2	269.8	229.3	190.8	160.0	140.7	133.0	133.0
50°	5856.9	2000.5	437.5	298.7	246.7	204.3	163.8	138.8	123.4	117.6	117.6
52.5°	6541.0	2224.0	400.9	267.9	221.6	177.3	140.7	123.4	109.8	106.0	104.0
55°	7439.1	2509.3	362.3	235.1	194.7	152.2	125.3	107.9	92.5	86.7	84.8
57.5°	8821.0	2939.0	319.9	206.2	160.0	127.2	107.9	90.6	73.3	63.6	61.6
60°	10488.0	3463.2	275.6	181.2	129.1	104.0	86.7	69.4	54.0	42.4	40.5
62.5°	12049.1	3796.7	233.2	152.2	102.2	79.1	61.6	52.1	38.5	27.0	25.1
65°	12739.0	3684.8	192.8	123.4	80.9	55.9	40.5	36.6	23.1	11.5	9.7
66°	12509.7	3519.2	177.3	111.8	73.3	48.2	34.6	30.9	17.3	5.8	5.8
67.5°	11833.2	3127.9	154.2	96.4	63.6	38.5	27.0	23.1	9.7	1.9	0.0
70°	10139.2	2530.5	121.4	71.3	46.3	27.0	15.4	11.5	5.8	0.0	0.0
72.5°	7788.0	1884.8	96.4	54.0	32.8	15.4	7.7	3.9	5.8	0.0	0.0
75°	4771.8	1077.3	75.2	40.5	21.2	9.7	5.8	0.0	5.8	1.9	0.0
77.5°	2118.1	483.7	50.1	27.0	15.4	7.7	3.9	0.0	3.9	1.9	0.0
80°	535.8	158.0	28.9	19.3	11.5	5.8	1.9	0.0	3.9	3.9	1.9
82.5°	146.5	57.8	21.2	15.4	9.7	5.8	1.9	0.0	3.9	3.9	3.9
85°	57.8	27.0	19.3	15.4	11.5	5.8	1.9	0.0	3.9	3.9	3.9
87.5°	27.0	19.3	19.3	17.3	13.5	5.8	1.9	0.0	3.9	1.9	3.9
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)