

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: P323858

Luminaire Tested: **GAN-SA4D-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323858  
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-SA4D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA 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: 25403 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

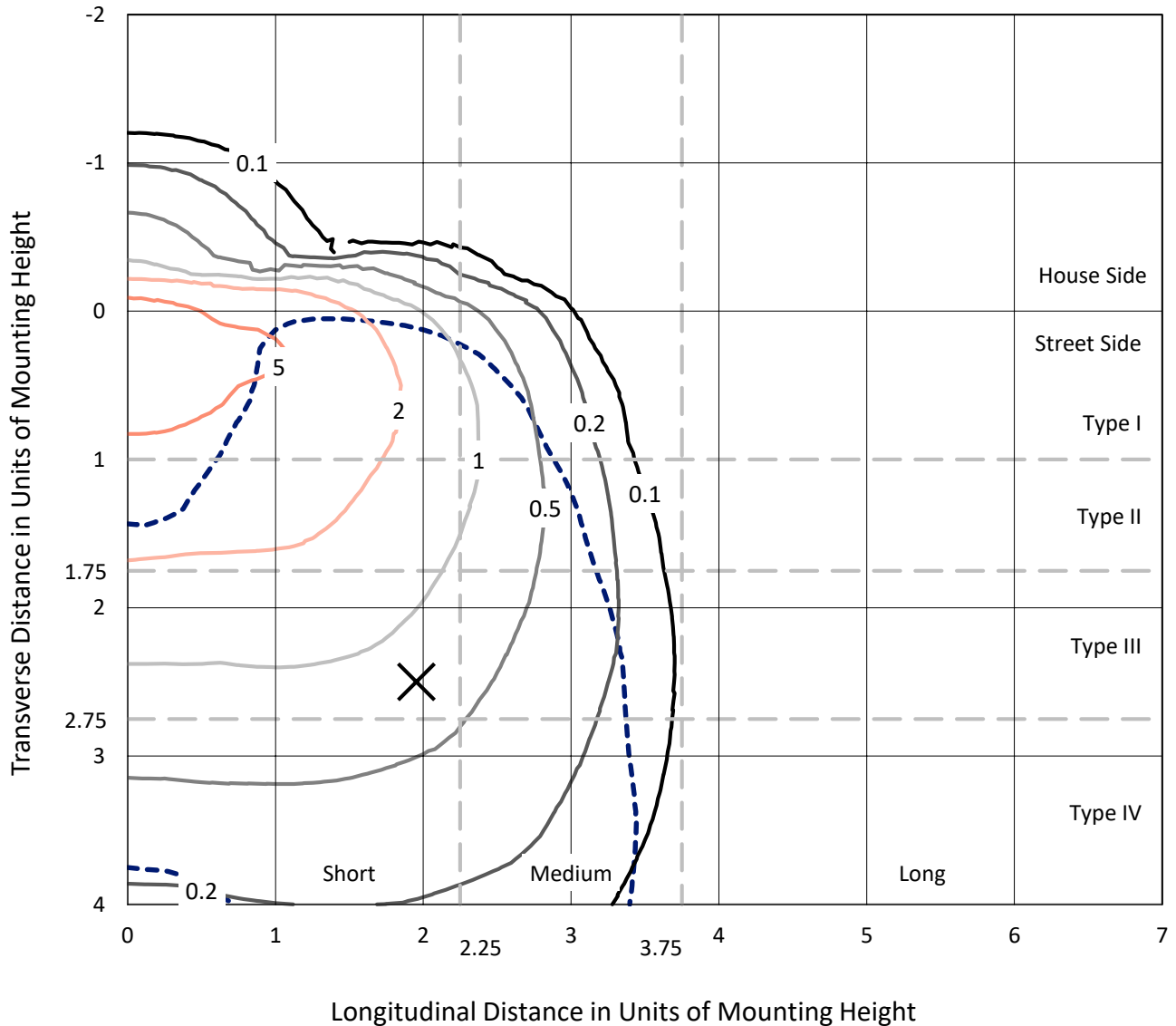
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323858  
 CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

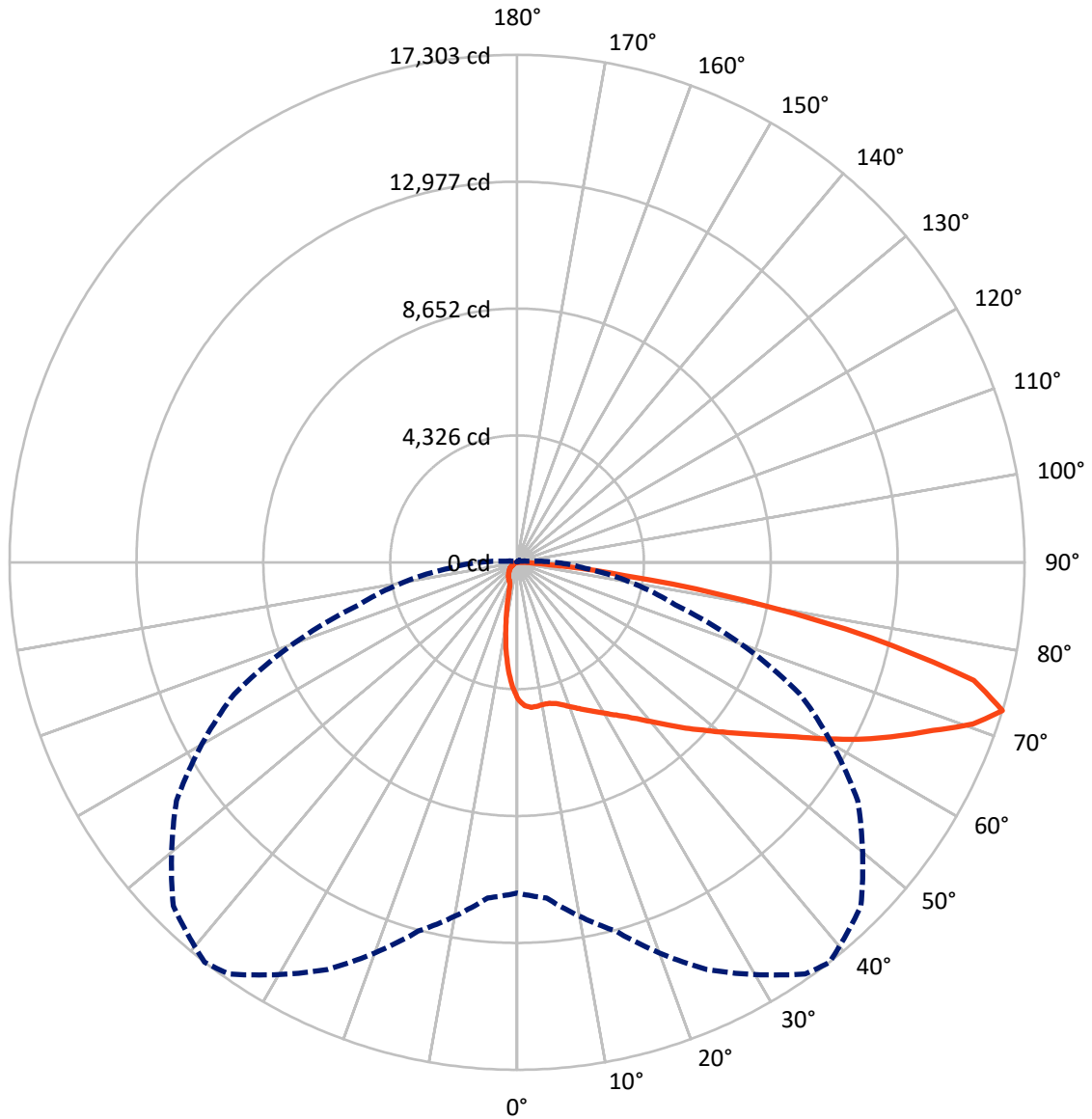
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P323858  
CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P323858  
 CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2137.8	0.0	2137.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23265.2	0.0	23265.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25403.0	0.0	25403.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.1	1.6
10°-20°	973.5	3.8
20°-30°	1548.3	6.1
30°-40°	2327.6	9.2
40°-50°	3551.0	14.0
50°-60°	5018.7	19.8
60°-70°	6295.2	24.8
70°-80°	4707.0	18.5
80°-90°	583.7	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°	25403.0	100.0
0°-180°	25403.0	100.0

**Coefficient of Utilization**

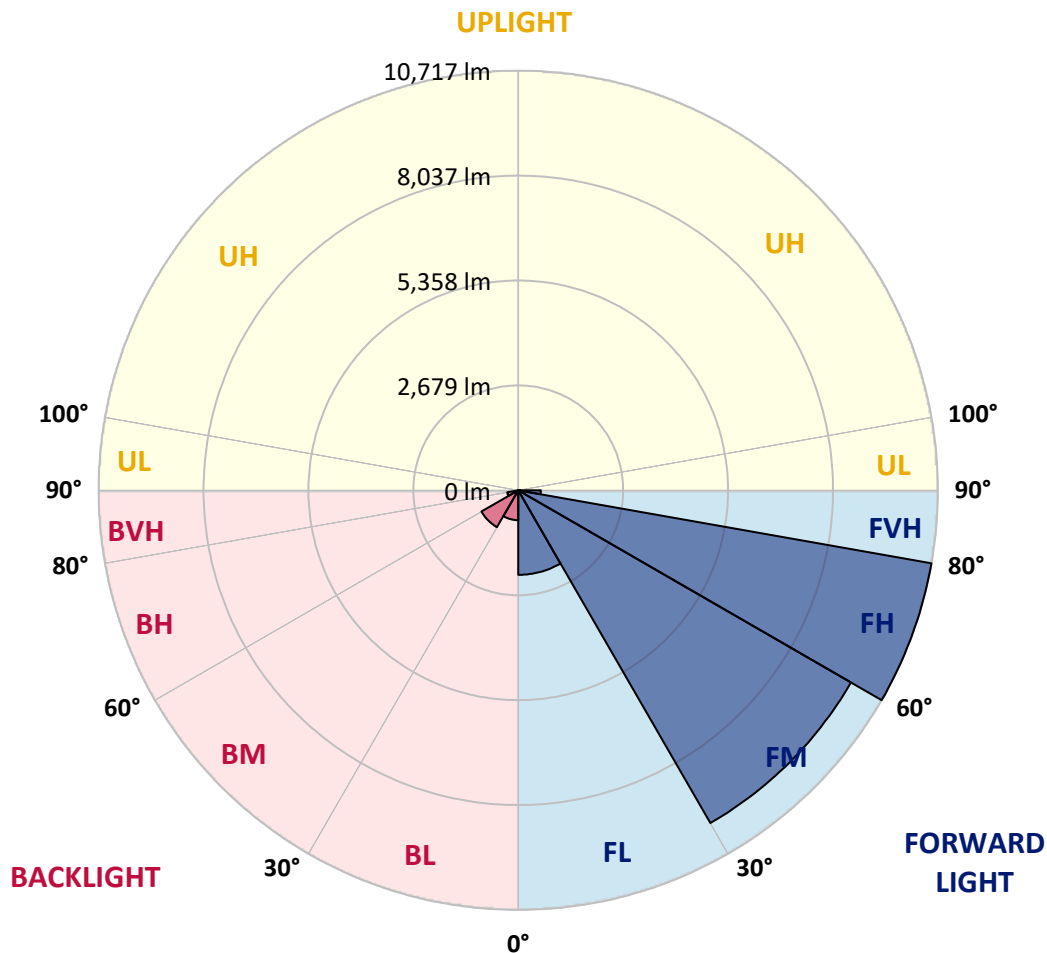


REPORT NUMBER: P323858  
 CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2158.6	8.5			
FM (30°-60°)	9811.8	38.6			
FH (60°-80°)	10716.6	42.2			G4/12000
FVH (80°-90°)	578.2	2.3			G4/750
BL (0°-30°)	761.2	3.0	B2/1000		
BM (30°-60°)	1085.6	4.3	B2/2500		
BH (60°-80°)	285.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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-G4**  
 Type IV Short





REPORT NUMBER: P323858

CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5
2.5°	4958.5	4959.5	4947.9	4928.9	4904.7	4892.0	4870.9	4837.2	4801.3	4736.9	4667.3
5°	5059.8	5059.8	5045.0	5019.7	4980.6	4969.0	4928.9	4875.1	4801.3	4696.8	4579.7
7.5°	5049.2	5051.3	5031.3	5004.9	4965.9	4955.3	4906.8	4846.7	4754.9	4628.3	4478.5
10°	4994.4	4999.6	4983.8	4971.1	4935.3	4923.7	4878.3	4818.2	4726.4	4591.3	4419.4
12.5°	4938.4	4943.7	4949.0	4960.6	4938.4	4934.2	4898.4	4847.7	4760.1	4619.8	4425.7
15°	4902.6	4913.1	4951.1	4996.5	5001.7	4997.5	4974.3	4926.8	4838.2	4692.6	4471.1
17.5°	4902.6	4919.5	4998.6	5085.1	5115.7	5118.8	5098.8	5032.3	4926.8	4770.7	4513.3
20°	4943.7	4966.9	5090.4	5212.7	5263.4	5263.4	5224.3	5131.5	5008.1	4841.4	4541.8
22.5°	5049.2	5079.8	5234.9	5376.3	5430.1	5418.5	5365.7	5230.7	5092.5	4921.6	4577.6
25°	5257.1	5280.3	5441.7	5584.1	5616.8	5590.4	5524.0	5350.9	5200.1	5030.2	4643.0
27.5°	5525.0	5528.2	5694.9	5815.1	5795.1	5777.2	5693.8	5501.8	5355.2	5185.3	4755.9
30°	5819.4	5819.4	5966.0	6057.8	5996.6	5981.8	5898.5	5684.3	5553.5	5396.3	4916.3
32.5°	6104.2	6116.9	6236.1	6294.1	6225.5	6210.8	6129.5	5915.4	5817.3	5718.1	5166.3
35°	6379.6	6389.1	6501.9	6533.6	6468.2	6472.4	6414.4	6232.9	6196.0	6183.3	5543.0
37.5°	6646.5	6648.6	6763.6	6783.6	6750.9	6786.8	6792.1	6631.7	6700.3	6802.6	6073.6
40°	6890.2	6892.3	7006.2	7057.9	7113.8	7160.3	7201.4	7116.0	7342.8	7580.2	6705.6
42.5°	7085.4	7107.5	7252.1	7350.2	7497.9	7586.5	7698.3	7694.1	8107.7	8464.2	7469.4
45°	7257.3	7295.3	7496.8	7668.8	7922.0	8063.3	8238.5	8375.6	8968.5	9448.6	8242.7
47.5°	7484.2	7520.0	7750.0	8031.7	8369.3	8555.0	8845.1	9141.6	9914.9	10414.9	8998.1
50°	7803.8	7788.0	8014.8	8418.9	8852.5	9096.2	9509.7	9953.9	10853.8	11256.8	9442.2
52.5°	8144.6	8138.2	8306.0	8839.8	9422.2	9707.0	10253.5	10793.7	11751.6	11837.1	9645.8
55°	8566.6	8521.2	8662.6	9319.8	10098.4	10404.4	11047.9	11625.0	12466.9	12164.1	9748.2
57.5°	9008.6	8933.7	9068.8	9854.7	10861.2	11223.1	11927.8	12435.3	12942.7	12387.8	9747.1
60°	9465.4	9376.8	9537.2	10523.6	11808.6	12227.4	12881.5	12982.8	13386.9	12500.7	9675.4
62.5°	9847.3	9794.6	10033.0	11238.9	12866.7	13278.2	13602.1	13480.8	13761.4	12588.2	9507.6
65°	10251.4	10254.6	10639.6	12073.4	13991.4	14268.8	14296.3	14126.4	14074.7	12570.3	8940.0
67.5°	10797.9	10848.5	11491.0	13206.5	15085.4	15299.6	15297.5	14825.9	14303.7	11857.1	7681.4
70°	11376.0	11495.3	12472.2	14503.0	16279.7	16497.0	16385.2	15271.1	13468.1	9587.8	5436.4
72.5°	11279.0	11485.8	13017.6	15320.7	17137.4	17303.0	16576.1	14177.1	10644.9	5572.5	2314.7
75°	8701.6	8941.1	11936.2	14510.4	16237.5	16088.7	14242.5	11032.1	5817.3	1555.1	521.2
77.5°	4596.6	4724.3	7885.0	11054.3	12661.0	12349.8	10033.0	6120.0	1773.5	385.1	234.2
80°	2407.5	2437.0	3436.1	6272.0	7814.4	7816.5	5946.0	2688.1	731.1	197.3	157.2
82.5°	1289.2	1314.5	1815.7	2898.1	4094.4	3711.5	2276.7	1479.1	425.2	111.8	150.9
85°	310.2	315.4	1029.7	1324.0	1609.9	1149.9	676.3	1241.7	115.0	65.4	122.4
87.5°	119.2	121.3	381.9	572.9	410.4	265.9	316.5	463.1	14.8	25.3	19.0
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: P323858  
 CATALOG NUMBER: GAN-SA4D-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5	4671.5
2.5°	4625.1	4597.7	4530.2	4444.7	4368.7	4313.9	4231.6	4177.8	4141.9	4140.9	4127.1
5°	4508.0	4452.1	4306.5	4133.5	3976.3	3834.9	3668.2	3536.4	3438.2	3422.4	3388.7
7.5°	4382.5	4290.7	4067.0	3796.9	3533.2	3265.2	2954.0	2760.9	2595.3	2516.2	2507.7
10°	4305.4	4176.7	3859.2	3468.8	3055.3	2619.6	2212.3	1930.6	1727.0	1669.0	1625.8
12.5°	4289.6	4119.8	3698.8	3160.8	2570.0	1993.9	1543.5	1243.8	1081.4	1029.7	1016.0
15°	4305.4	4093.4	3563.8	2855.9	2078.3	1414.8	1036.0	861.9	800.7	786.0	784.9
17.5°	4314.9	4061.7	3410.8	2517.2	1601.5	1010.7	793.4	742.7	733.2	732.2	734.3
20°	4313.9	4013.2	3228.3	2139.5	1191.1	794.4	717.4	706.8	704.7	705.8	704.7
22.5°	4306.5	3956.2	3027.8	1750.2	899.9	710.0	684.7	678.4	677.3	677.3	677.3
25°	4320.2	3910.9	2807.3	1377.8	741.7	671.0	655.2	649.9	648.8	648.8	646.7
27.5°	4369.8	3885.6	2565.8	1060.3	669.9	636.2	623.5	622.4	619.3	618.2	620.3
30°	4450.0	3885.6	2300.9	825.0	626.7	600.3	590.8	588.7	587.6	586.6	587.6
32.5°	4591.3	3915.1	2011.9	685.7	585.5	560.2	553.9	557.0	553.9	553.9	553.9
35°	4846.7	4003.7	1709.1	598.2	542.3	521.2	514.8	519.1	516.9	516.9	515.9
37.5°	5219.1	4168.3	1404.2	545.4	504.3	482.1	473.7	480.0	477.9	477.9	476.9
40°	5672.7	4407.8	1114.1	505.3	467.4	444.2	436.8	439.9	434.7	434.7	436.8
42.5°	6232.9	4711.6	860.9	466.3	430.4	408.3	404.1	400.9	391.4	386.1	387.2
45°	6855.4	5028.1	671.0	428.3	395.6	377.7	371.4	362.9	347.1	336.5	337.6
47.5°	7411.4	5271.8	545.4	391.4	364.0	350.3	340.8	324.9	301.7	289.1	290.1
50°	7703.6	5308.7	464.2	354.5	334.4	320.7	307.0	282.7	255.3	241.6	240.5
52.5°	7778.5	5135.7	404.1	320.7	304.9	289.1	271.1	238.4	207.8	193.1	191.0
55°	7805.9	4872.0	350.3	289.1	273.2	255.3	232.1	195.2	166.7	151.9	150.9
57.5°	7715.2	4478.5	308.1	260.6	241.6	219.4	191.0	156.1	128.7	117.1	117.1
60°	7513.7	3945.7	275.4	230.0	208.9	183.6	154.0	121.3	96.0	86.5	86.5
62.5°	7111.7	3255.7	244.8	198.3	178.3	151.9	124.5	91.8	67.5	62.2	63.3
65°	6353.2	2469.7	214.2	169.9	151.9	125.5	97.1	65.4	45.4	45.4	47.5
67.5°	5181.1	1715.4	182.5	144.5	130.8	102.3	73.8	45.4	31.6	35.9	40.1
70°	3429.8	962.2	156.1	119.2	111.8	81.2	54.9	30.6	25.3	33.8	41.1
72.5°	1294.5	374.5	130.8	96.0	97.1	62.2	39.0	23.2	23.2	36.9	48.5
75°	360.8	183.6	93.9	70.7	76.0	45.4	28.5	20.0	22.2	42.2	57.0
77.5°	212.1	135.0	61.2	41.1	51.7	31.6	19.0	15.8	19.0	35.9	54.9
80°	170.9	71.7	35.9	21.1	28.5	17.9	12.7	9.5	5.3	13.7	28.5
82.5°	170.9	43.3	16.9	14.8	14.8	9.5	6.3	4.2	1.1	0.0	7.4
85°	115.0	17.9	10.5	9.5	7.4	3.2	2.1	1.1	0.0	0.0	0.0
87.5°	19.0	7.4	4.2	2.1	1.1	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)