

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: P321622

Luminaire Tested: **GAN-SA8D-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47826 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

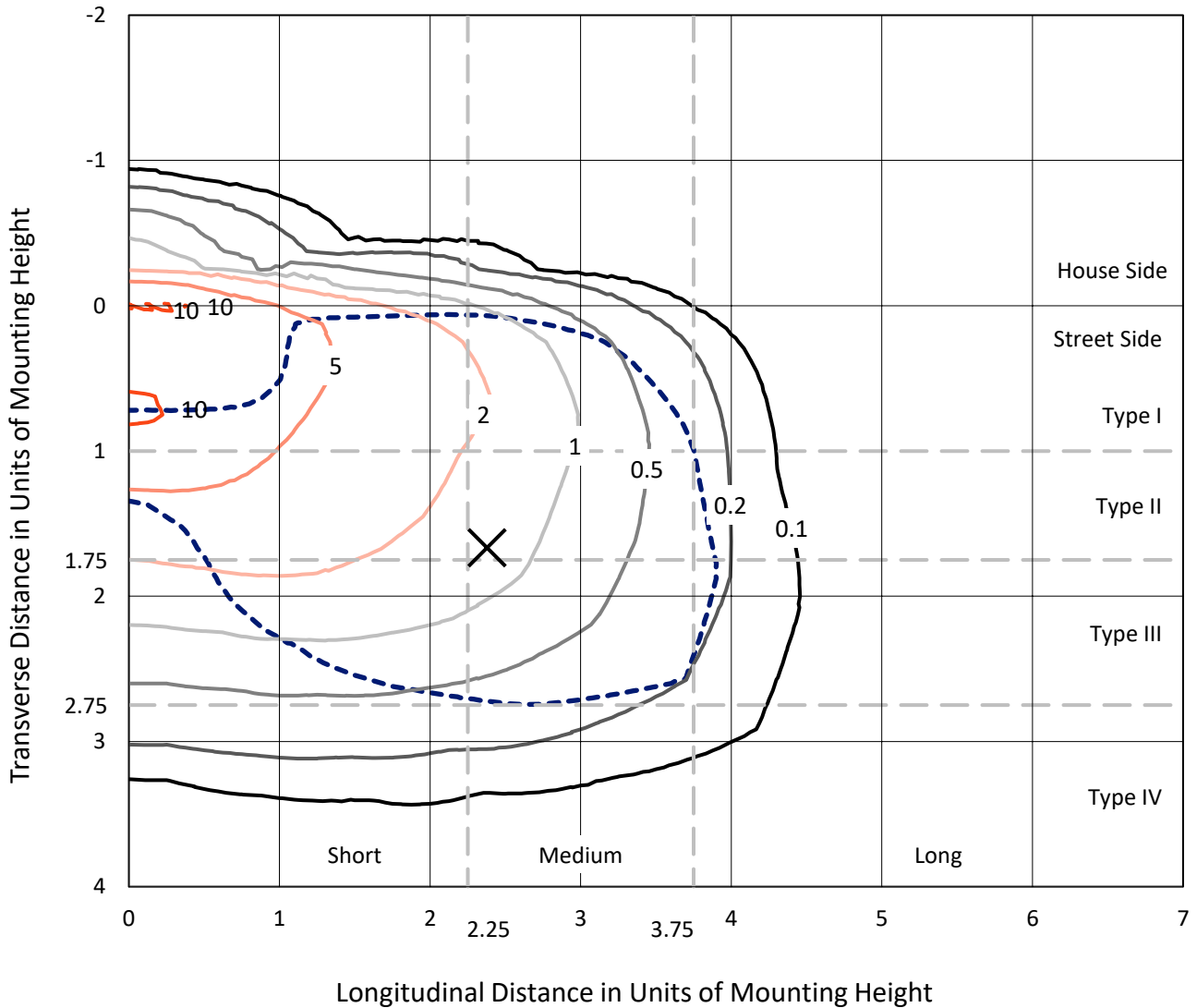
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321622
 CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

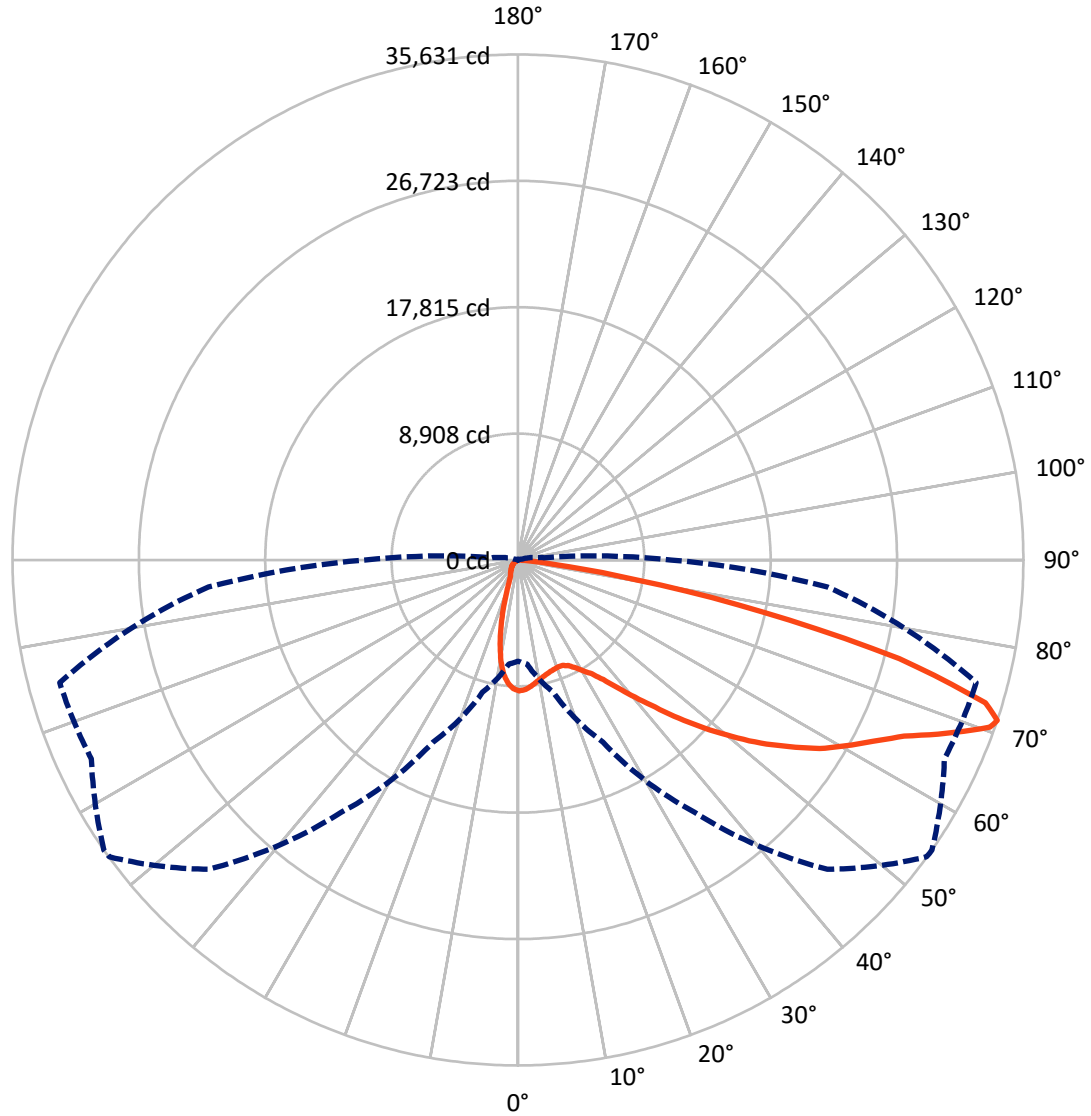
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P321622
CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321622
 CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

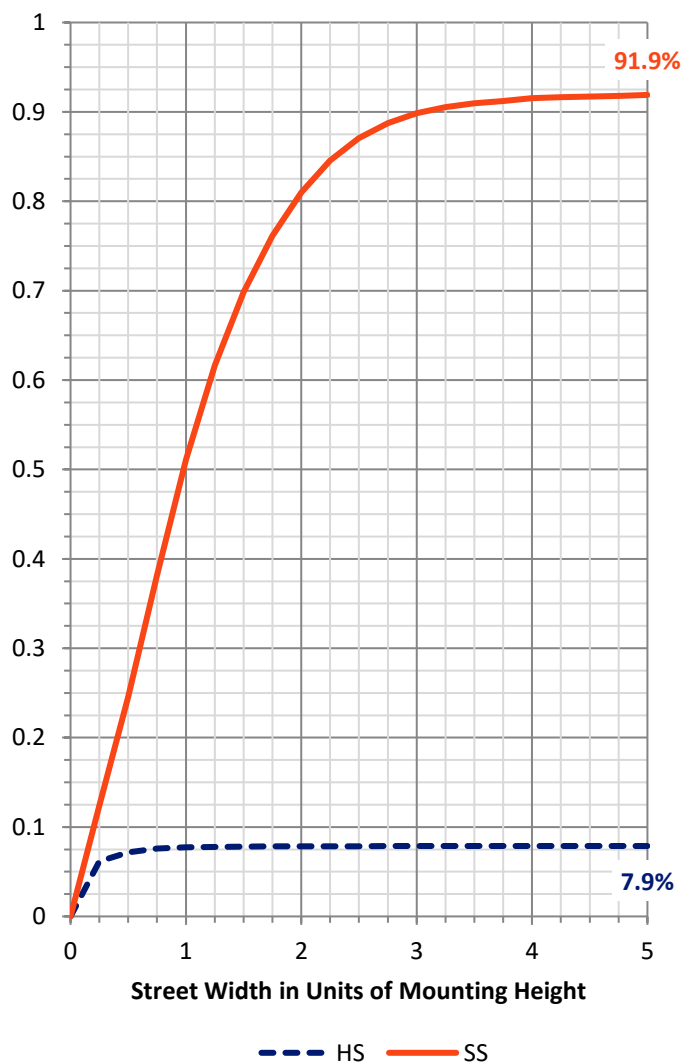
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3786.5	0.0	3786.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	44039.5	0.0	44039.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	47826.0	0.0	47826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.4	1.6
10°-20°	1775.4	3.7
20°-30°	2853.1	6.0
30°-40°	4847.6	10.1
40°-50°	7524.1	15.7
50°-60°	10115.9	21.2
60°-70°	12375.2	25.9
70°-80°	7235.5	15.1
80°-90°	312.8	0.7
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°	47826.0	100.0
0°-180°	47826.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321622

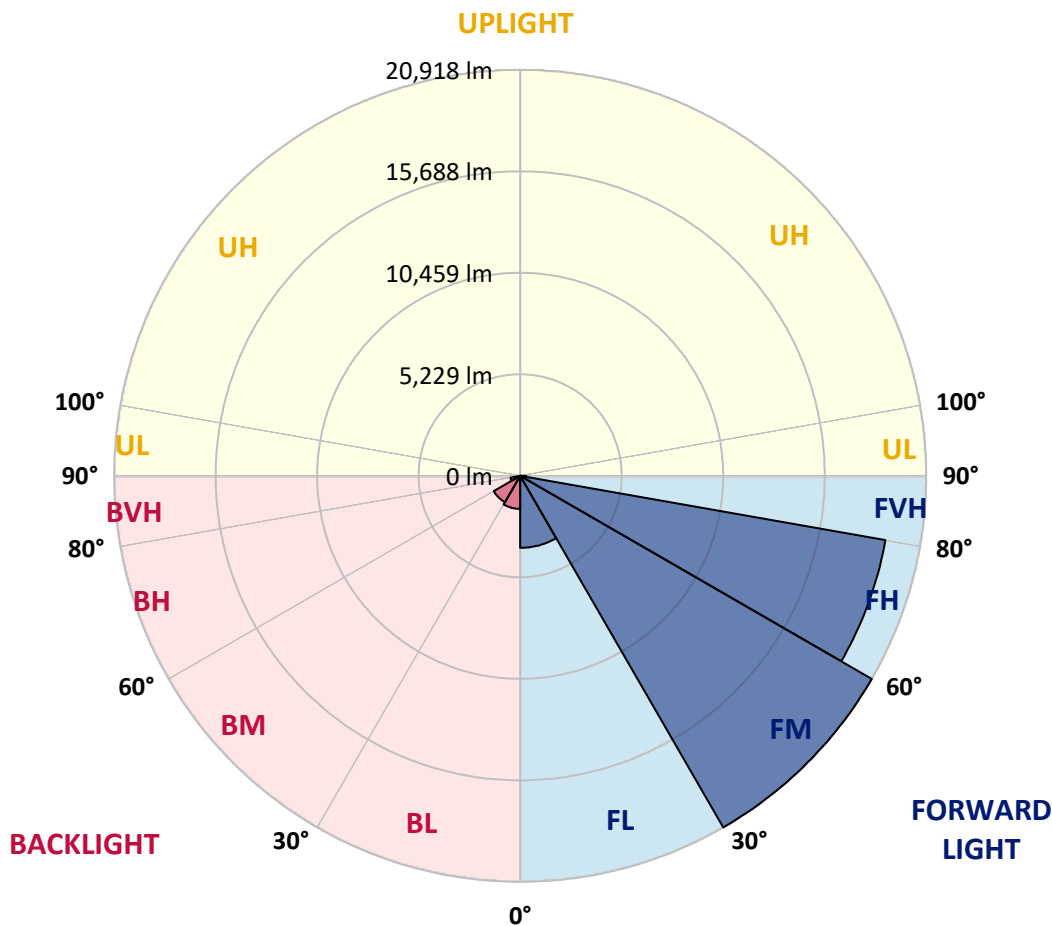
CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.6	7.8			
FM (30°-60°)	20917.7	43.7			
FH (60°-80°)	19103.3	39.9			G5
FVH (80°-90°)	307.8	0.6			G3/500
BL (0°-30°)	1704.3	3.6	B3/2500		
BM (30°-60°)	1570.0	3.3	B2/2500		
BH (60°-80°)	507.3	1.1	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P321622

CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4
2.5°	8952.8	8963.6	9002.2	9019.4	9060.2	9128.9	9163.3	9165.4	9221.3	9242.7	9259.9
5°	8319.3	8383.8	8448.2	8516.9	8641.4	8806.8	8970.0	8985.0	9165.4	9298.6	9369.4
7.5°	7773.9	7831.9	7909.2	8018.7	8194.8	8454.6	8727.3	8759.6	9101.0	9403.8	9562.7
10°	7213.4	7260.6	7372.3	7533.4	7776.0	8123.9	8491.1	8544.8	9043.0	9545.5	9824.7
12.5°	6614.2	6642.1	6777.4	7009.4	7365.8	7808.2	8291.4	8362.3	9006.5	9708.7	10133.9
15°	6159.0	6171.9	6300.7	6541.2	6949.2	7524.8	8136.8	8222.7	9015.1	9904.2	10471.1
17.5°	6043.0	6049.4	6118.2	6283.5	6644.3	7271.4	8014.4	8119.6	9040.9	10095.3	10810.4
20°	6513.3	6468.2	6397.3	6371.6	6526.2	7118.9	7941.4	8059.5	9075.2	10264.9	11115.3
22.5°	7803.9	7670.8	7376.6	6983.6	6745.2	7129.6	7960.7	8078.8	9184.8	10473.2	11467.5
25°	9719.5	9534.8	9034.4	8261.3	7518.3	7438.9	8121.8	8242.0	9397.4	10722.4	11804.7
27.5°	11899.2	11716.6	11104.6	10000.8	8733.8	8050.9	8491.1	8602.8	9713.0	10943.5	12062.4
30°	13986.5	13935.0	13213.4	11959.3	10262.8	9043.0	8967.9	9062.4	9947.1	11076.7	12266.4
32.5°	15756.0	15674.4	15094.6	13874.9	12013.0	10234.9	9528.4	9556.3	10123.2	11248.5	12532.7
35°	17396.7	17295.8	16786.8	15633.6	13808.3	11690.9	10391.6	10350.8	10507.6	11594.2	12919.2
37.5°	18829.1	18921.4	18356.6	17259.3	15418.9	13204.8	11555.6	11433.2	11108.9	12156.9	13479.7
40°	20027.4	20027.4	19733.2	18818.3	17158.3	14770.3	12872.0	12710.9	12013.0	13024.5	14190.5
42.5°	20459.0	20551.4	20660.9	20143.3	18715.3	16398.1	14338.7	14171.2	13286.4	14255.0	15088.2
45°	20484.8	20630.8	21191.3	21189.2	20121.9	18015.2	15992.3	15912.8	14918.5	15835.5	16200.6
47.5°	20121.9	20304.4	21227.8	21751.8	21236.4	19520.6	17800.4	17701.7	16836.2	17772.5	17364.5
50°	19561.4	19763.2	20837.0	21973.0	21994.5	20830.5	19705.3	19557.1	18947.2	19986.6	18567.1
52.5°	18558.5	18949.3	20486.9	22024.5	22492.7	21962.3	21517.7	21453.3	21309.4	22119.0	19524.9
55°	16413.2	16847.0	19608.6	22041.7	22954.4	22965.1	23216.4	23233.6	23523.5	24111.9	20237.8
57.5°	15399.6	15644.4	18075.3	22123.3	23639.4	24103.3	24947.2	25080.4	25529.2	26003.8	21051.7
60°	14761.8	15051.7	17319.4	22011.6	24715.3	25595.8	26551.4	26596.5	27077.5	27955.9	22153.4
62.5°	14252.8	14538.4	16842.7	21582.1	25924.3	27391.1	28119.1	28123.4	28484.1	30281.6	23405.4
65°	12996.5	13237.1	15878.4	21099.0	26723.2	29167.0	29940.1	29912.2	30206.4	32734.0	24859.2
67.5°	11179.8	11364.5	13909.2	19267.2	26422.6	30781.9	32688.9	32596.6	32240.1	34853.6	25430.4
70°	8643.6	8710.2	10962.9	16056.7	23605.1	31402.6	35345.3	35298.1	33487.8	34473.5	23336.6
71°	7144.7	7363.7	9661.5	14171.2	21717.4	30829.2	35603.0	35630.9	33174.2	33438.4	21895.7
72.5°	4148.9	4335.8	7002.9	10883.4	18438.2	28436.9	34267.3	34469.2	31709.7	30414.7	18702.4
75°	889.1	951.3	2596.3	5267.8	10142.5	19930.7	27047.5	27766.9	25844.9	20690.9	11272.1
77.5°	618.5	667.9	1112.4	2390.1	3352.2	9848.3	16801.9	17613.6	15440.4	7776.0	3607.8
80°	489.6	545.5	867.6	1181.1	906.2	3176.1	7870.5	8366.6	5149.7	1735.2	607.7
82.5°	272.7	324.3	676.5	637.8	347.9	603.4	2203.3	2491.1	1030.8	350.0	143.9
85°	79.5	96.6	435.9	463.9	148.2	116.0	375.8	466.0	195.4	92.3	64.4
87.5°	0.0	0.0	210.5	178.2	42.9	17.2	34.4	38.7	38.7	38.7	42.9
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: P321622
 CATALOG NUMBER: GAN-SA8D-740-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4	9223.4
2.5°	9259.9	9275.0	9221.3	9150.4	9075.2	8982.9	8886.3	8811.1	8809.0	8772.4	8735.9
5°	9373.7	9365.1	9217.0	8991.5	8725.2	8448.2	8184.0	7885.5	7786.8	7664.3	7623.5
7.5°	9584.2	9524.1	9210.5	8716.6	8132.5	7552.7	6953.5	6350.1	6092.4	5860.5	5819.7
10°	9848.3	9734.5	9169.7	8304.3	7232.7	6163.3	5259.2	4438.8	4078.1	3801.0	3788.2
12.5°	10123.2	9949.3	9055.9	7681.5	6053.7	4550.5	3509.0	2701.5	2400.9	2207.6	2224.8
15°	10411.0	10151.1	8811.1	6841.9	4711.6	3088.1	2156.1	1681.5	1561.2	1511.8	1524.7
17.5°	10705.2	10290.7	8469.7	5830.4	3386.6	1992.9	1492.5	1359.4	1359.4	1370.1	1374.4
20°	10960.7	10365.9	7967.1	4696.5	2295.7	1451.7	1305.7	1286.3	1297.1	1314.3	1316.4
22.5°	11214.1	10370.2	7312.2	3547.6	1606.3	1271.3	1243.4	1234.8	1241.2	1260.6	1262.7
25°	11420.3	10318.6	6491.8	2523.3	1282.0	1198.3	1185.4	1181.1	1185.4	1209.0	1209.0
27.5°	11504.0	10131.8	5491.1	1773.8	1148.9	1116.7	1112.4	1116.7	1123.1	1140.3	1142.5
30°	11512.6	9805.4	4400.2	1284.2	1041.5	1007.2	1015.8	1030.8	1024.3	1020.1	1024.3
32.5°	11534.1	9427.4	3337.2	1056.6	951.3	897.6	886.9	886.9	861.1	846.1	837.5
35°	11605.0	8982.9	2420.2	949.2	859.0	796.7	755.9	708.7	659.3	633.5	627.1
37.5°	11716.6	8516.9	1733.0	878.3	777.4	706.5	629.2	545.5	474.6	455.3	455.3
40°	11920.6	8035.9	1282.0	822.5	713.0	624.9	509.0	399.4	335.0	324.3	324.3
42.5°	12242.8	7529.1	1022.2	773.1	657.1	541.2	388.7	289.9	242.7	236.2	234.1
45°	12577.8	6970.7	893.4	725.8	597.0	444.5	287.8	214.7	186.8	180.4	180.4
47.5°	12912.8	6375.9	831.1	680.8	539.0	345.7	214.7	169.7	156.8	156.8	158.9
50°	13196.2	5755.2	786.0	631.4	463.9	262.0	169.7	143.9	139.6	148.2	150.3
52.5°	13267.1	5145.4	730.1	569.1	371.5	199.7	139.6	126.7	126.7	126.7	126.7
55°	13224.2	4672.9	657.1	491.8	274.9	158.9	120.3	111.7	109.5	109.5	109.5
57.5°	13370.2	4393.7	526.1	382.3	197.6	128.8	105.2	98.8	94.5	92.3	92.3
60°	13664.4	4211.2	375.8	274.9	148.2	107.4	90.2	83.8	77.3	73.0	73.0
62.5°	14055.2	4052.3	279.2	204.0	113.8	85.9	75.2	68.7	60.1	55.8	55.8
65°	14355.9	3768.8	212.6	152.5	85.9	68.7	58.0	55.8	42.9	38.7	36.5
67.5°	13896.3	3146.1	171.8	111.7	64.4	53.7	45.1	42.9	25.8	21.5	21.5
70°	11918.5	2190.4	137.4	81.6	47.2	42.9	36.5	27.9	19.3	17.2	17.2
71°	10808.3	1829.7	124.6	68.7	40.8	40.8	34.4	23.6	17.2	15.0	15.0
72.5°	8978.6	1299.2	105.2	53.7	36.5	42.9	36.5	21.5	17.2	15.0	12.9
75°	5211.9	543.3	73.0	36.5	27.9	51.5	47.2	19.3	12.9	10.7	10.7
77.5°	1567.7	199.7	40.8	23.6	21.5	45.1	53.7	17.2	6.4	2.1	2.1
80°	285.6	85.9	25.8	15.0	15.0	27.9	40.8	8.6	0.0	0.0	0.0
82.5°	100.9	42.9	15.0	8.6	6.4	12.9	19.3	0.0	0.0	0.0	0.0
85°	58.0	30.1	8.6	4.3	0.0	2.1	4.3	0.0	0.0	0.0	0.0
87.5°	38.7	8.6	0.0	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)