

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: P321603

Luminaire Tested: **GAN-SA9B-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321603
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-SA9B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 39293 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

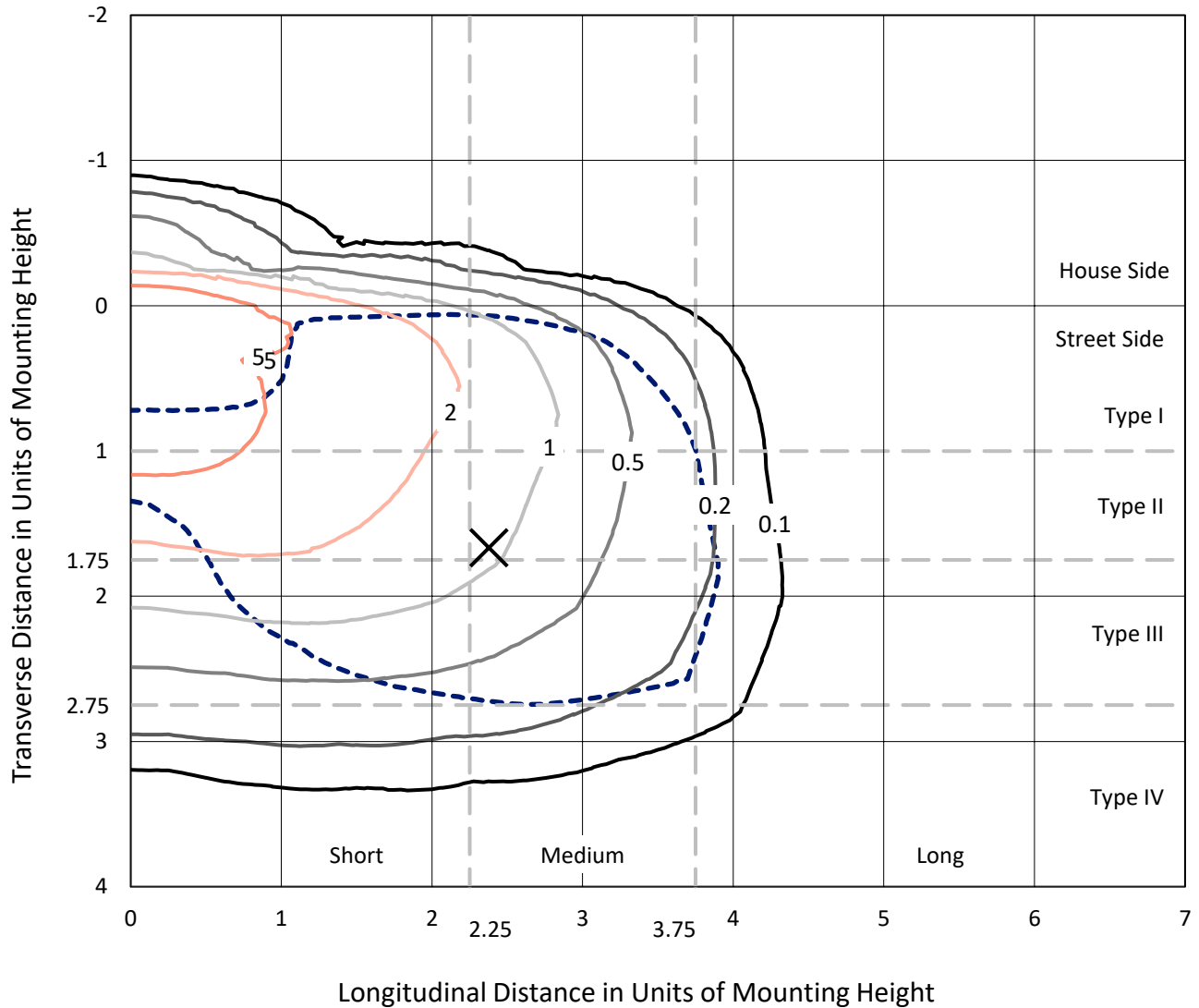
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

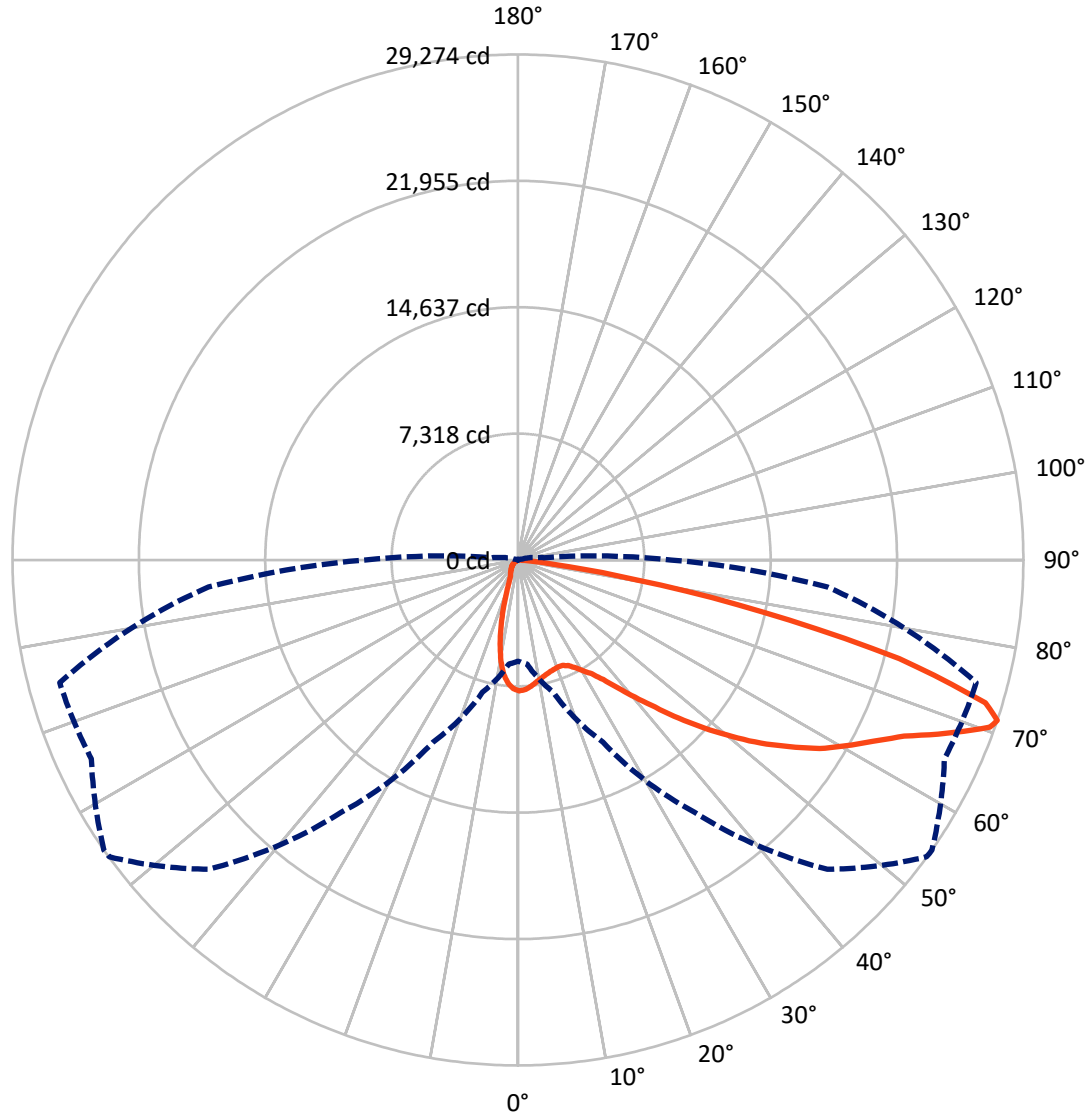
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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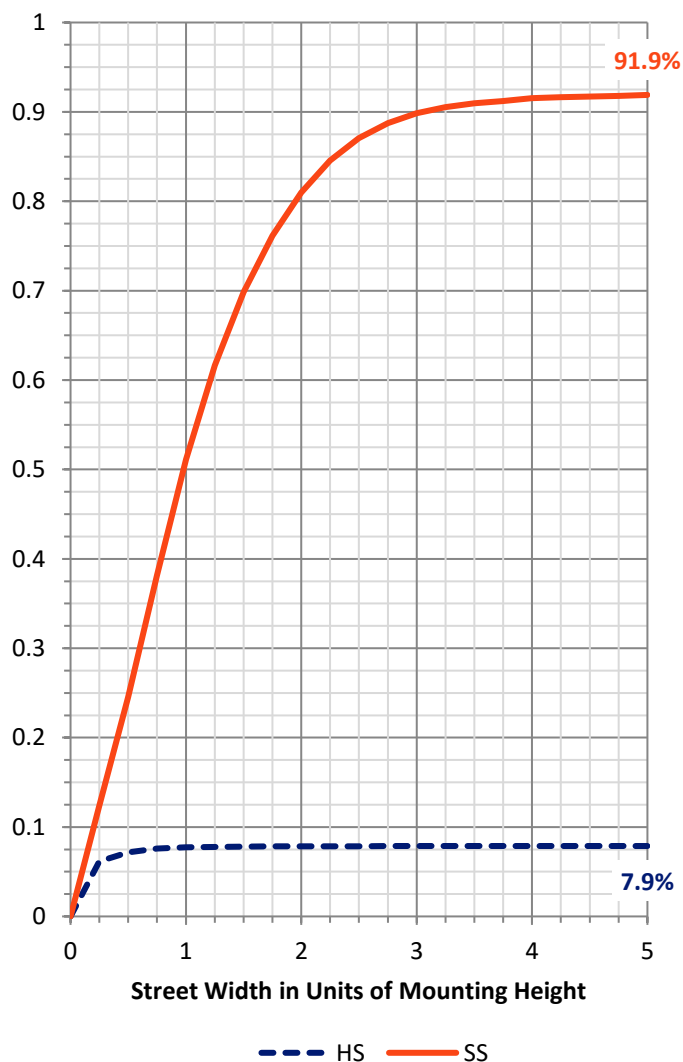
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3110.9	0.0	3110.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36182.1	0.0	36182.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	39293.0	0.0	39293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.1	1.6
10°-20°	1458.6	3.7
20°-30°	2344.1	6.0
30°-40°	3982.7	10.1
40°-50°	6181.7	15.7
50°-60°	8311.1	21.2
60°-70°	10167.2	25.9
70°-80°	5944.5	15.1
80°-90°	257.0	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°	39293.0	100.0
0°-180°	39293.0	100.0

Coefficient of Utilization

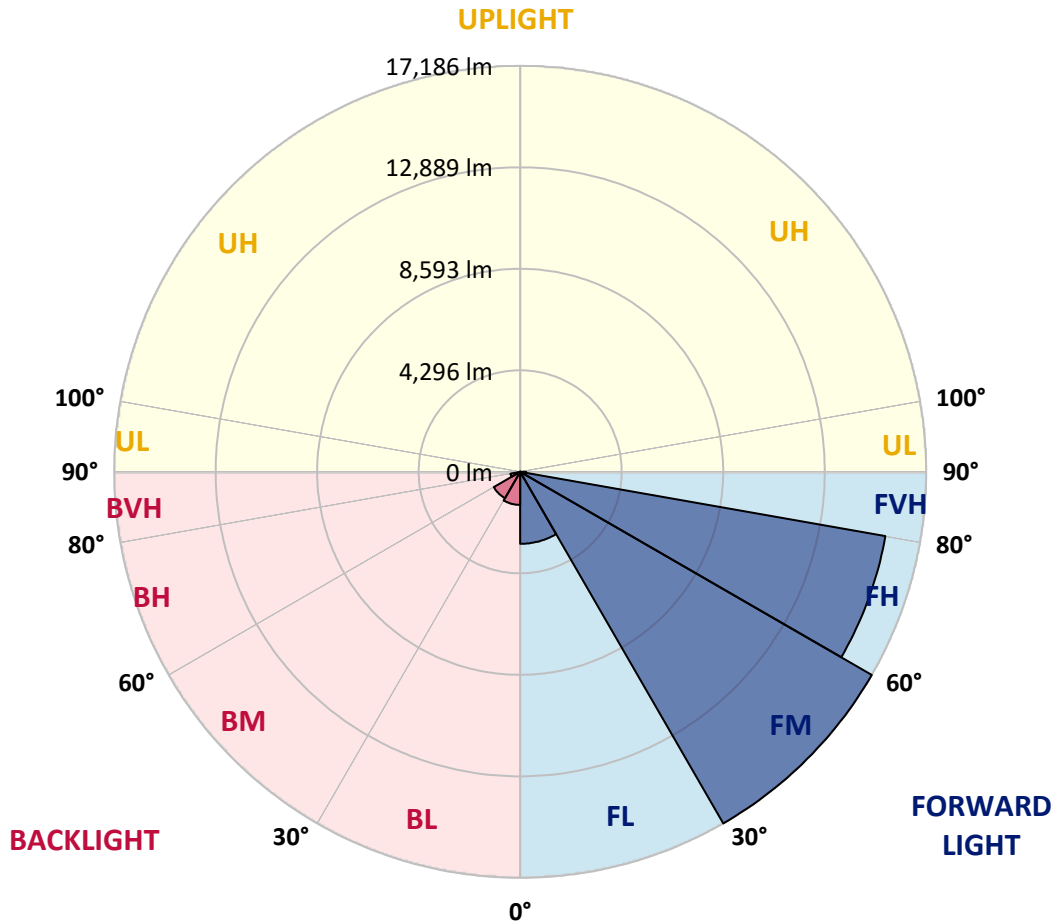


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.6	7.8			
FM (30°-60°)	17185.6	43.7			
FH (60°-80°)	15694.9	39.9			G5
FVH (80°-90°)	252.9	0.6			G3/500
BL (0°-30°)	1400.2	3.6	B3/2500		
BM (30°-60°)	1289.8	3.3	B2/2500		
BH (60°-80°)	416.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8
2.5°	7355.5	7364.3	7396.1	7410.2	7443.7	7500.2	7528.4	7530.2	7576.0	7593.7	7607.8
5°	6835.0	6887.9	6940.9	6997.3	7099.7	7235.5	7369.6	7382.0	7530.2	7639.5	7697.8
7.5°	6386.9	6434.5	6498.0	6588.0	6732.7	6946.2	7170.2	7196.7	7477.2	7726.0	7856.6
10°	5926.4	5965.2	6056.9	6189.3	6388.6	6674.5	6976.2	7020.3	7429.6	7842.4	8071.8
12.5°	5434.1	5457.1	5568.2	5758.8	6051.7	6415.1	6812.1	6870.3	7399.6	7976.5	8325.9
15°	5060.1	5070.7	5176.5	5374.1	5709.4	6182.2	6685.0	6755.6	7406.7	8137.1	8602.9
17.5°	4964.8	4970.1	5026.6	5162.4	5458.8	5974.0	6584.5	6670.9	7427.8	8294.1	8881.6
20°	5351.2	5314.2	5255.9	5234.8	5361.8	5848.8	6524.5	6621.5	7456.1	8433.5	9132.2
22.5°	6411.6	6302.2	6060.5	5737.6	5541.8	5857.6	6540.4	6637.4	7546.0	8604.6	9421.5
25°	7985.4	7833.6	7422.5	6787.4	6176.9	6111.6	6672.7	6771.5	7720.7	8809.3	9698.5
27.5°	9776.2	9626.2	9123.3	8216.5	7175.5	6614.5	6976.2	7067.9	7980.1	8991.0	9910.2
30°	11491.1	11448.7	10855.9	9825.6	8431.7	7429.6	7367.8	7445.5	8172.4	9100.4	10077.9
32.5°	12944.9	12877.8	12401.5	11399.3	9869.7	8408.8	7828.3	7851.3	8317.1	9241.6	10296.6
35°	14292.8	14209.9	13791.8	12844.3	11344.6	9605.0	8537.6	8504.1	8632.9	9525.6	10614.2
37.5°	15469.6	15545.5	15081.5	14179.9	12667.9	10848.9	9493.9	9393.3	9126.9	9987.9	11074.7
40°	16454.1	16454.1	16212.4	15460.8	14097.0	12135.1	10575.4	10443.1	9869.7	10700.7	11658.7
42.5°	16808.8	16884.6	16974.6	16549.4	15376.1	13472.4	11780.4	11642.8	10915.9	11711.6	12396.2
45°	16829.9	16949.9	17410.4	17408.6	16531.8	14801.0	13139.0	13073.7	12256.8	13010.2	13310.1
47.5°	16531.8	16681.7	17440.4	17870.9	17447.5	16037.8	14624.5	14543.4	13832.3	14601.6	14266.4
50°	16071.3	16237.1	17119.3	18052.6	18070.3	17114.0	16189.5	16067.8	15566.7	16420.6	15254.4
52.5°	15247.3	15568.4	16831.7	18095.0	18479.6	18043.8	17678.6	17625.7	17507.4	18172.6	16041.3
55°	13484.8	13841.2	16110.1	18109.1	18858.9	18867.7	19074.2	19088.3	19326.5	19809.9	16627.0
57.5°	12652.0	12853.1	14850.4	18176.1	19421.7	19802.8	20496.2	20605.6	20974.4	21364.3	17295.7
60°	12128.0	12366.2	14229.3	18084.4	20305.7	21029.0	21814.2	21851.2	22246.4	22968.0	18200.8
62.5°	11709.9	11944.5	13837.6	17731.5	21299.0	22504.0	23102.1	23105.7	23402.1	24878.8	19229.4
65°	10677.7	10875.3	13045.5	17334.5	21955.3	23963.1	24598.3	24575.3	24817.1	26893.7	20423.9
67.5°	9185.1	9336.8	11427.6	15829.6	21708.3	25289.9	26856.6	26780.8	26487.9	28635.1	20893.2
70°	7101.4	7156.1	9006.9	13191.9	19393.5	25799.8	29039.1	29000.3	27513.0	28322.8	19173.0
71°	5869.9	6049.9	7937.7	11642.8	17842.7	25328.7	29250.8	29273.8	27255.4	27472.4	17989.1
72.5°	3408.7	3562.2	5753.5	8941.6	15148.5	23363.3	28153.4	28319.3	26052.1	24988.2	15365.5
75°	730.4	781.6	2133.1	4327.9	8332.9	16374.7	22221.7	22812.8	21233.7	16999.3	9261.0
77.5°	508.1	548.7	913.9	1963.7	2754.1	8091.2	13804.1	14471.0	12685.5	6388.6	2964.1
80°	402.3	448.1	712.8	970.4	744.5	2609.4	6466.3	6873.8	4230.9	1425.6	499.3
82.5°	224.1	266.4	555.8	524.0	285.8	495.8	1810.2	2046.6	846.9	287.6	118.2
85°	65.3	79.4	358.2	381.1	121.7	95.3	308.8	382.9	160.6	75.9	52.9
87.5°	0.0	0.0	172.9	146.4	35.3	14.1	28.2	31.8	31.8	31.8	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8	7577.8
2.5°	7607.8	7620.1	7576.0	7517.8	7456.1	7380.2	7300.8	7239.0	7237.3	7207.3	7177.3
5°	7701.3	7694.2	7572.5	7387.2	7168.5	6940.9	6723.9	6478.6	6397.5	6296.9	6263.4
7.5°	7874.2	7824.8	7567.2	7161.4	6681.5	6205.1	5712.9	5217.1	5005.4	4814.9	4781.3
10°	8091.2	7997.7	7533.7	6822.7	5942.3	5063.6	4320.8	3646.9	3350.5	3122.9	3112.3
12.5°	8317.1	8174.1	7440.2	6311.0	4973.6	3738.6	2882.9	2219.5	1972.5	1813.7	1827.8
15°	8553.5	8340.0	7239.0	5621.2	3870.9	2537.1	1771.4	1381.5	1282.7	1242.1	1252.7
17.5°	8795.2	8454.7	6958.5	4790.2	2782.3	1637.3	1226.2	1116.8	1116.8	1125.6	1129.2
20°	9005.1	8516.4	6545.7	3858.6	1886.1	1192.7	1072.7	1056.8	1065.7	1079.8	1081.5
22.5°	9213.3	8519.9	6007.5	2914.7	1319.7	1044.5	1021.5	1014.5	1019.8	1035.7	1037.4
25°	9382.7	8477.6	5333.6	2073.1	1053.3	984.5	973.9	970.4	973.9	993.3	993.3
27.5°	9451.5	8324.1	4511.4	1457.3	943.9	917.5	913.9	917.5	922.7	936.9	938.6
30°	9458.6	8055.9	3615.1	1055.1	855.7	827.5	834.5	846.9	841.6	838.1	841.6
32.5°	9476.2	7745.4	2741.8	868.1	781.6	737.5	728.7	728.7	707.5	695.1	688.1
35°	9534.4	7380.2	1988.4	779.8	705.7	654.6	621.0	582.2	541.6	520.5	515.2
37.5°	9626.2	6997.3	1423.8	721.6	638.7	580.5	516.9	448.1	389.9	374.0	374.0
40°	9793.8	6602.1	1053.3	675.7	585.8	513.4	418.1	328.2	275.2	266.4	266.4
42.5°	10058.4	6185.7	839.8	635.2	539.9	444.6	319.3	238.2	199.4	194.1	192.3
45°	10333.7	5727.0	734.0	596.3	490.5	365.2	236.4	176.4	153.5	148.2	148.2
47.5°	10608.9	5238.3	682.8	559.3	442.8	284.1	176.4	139.4	128.8	128.8	130.6
50°	10841.8	4728.4	645.7	518.7	381.1	215.2	139.4	118.2	114.7	121.7	123.5
52.5°	10900.0	4227.3	599.9	467.5	305.2	164.1	114.7	104.1	104.1	104.1	104.1
55°	10864.7	3839.2	539.9	404.0	225.8	130.6	98.8	91.7	90.0	90.0	90.0
57.5°	10984.7	3609.8	432.3	314.1	162.3	105.9	86.5	81.2	77.6	75.9	75.9
60°	11226.4	3459.9	308.8	225.8	121.7	88.2	74.1	68.8	63.5	60.0	60.0
62.5°	11547.5	3329.3	229.4	167.6	93.5	70.6	61.8	56.5	49.4	45.9	45.9
65°	11794.5	3096.4	174.7	125.3	70.6	56.5	47.6	45.9	35.3	31.8	30.0
67.5°	11417.0	2584.7	141.1	91.7	52.9	44.1	37.1	35.3	21.2	17.6	17.6
70°	9792.0	1799.6	112.9	67.0	38.8	35.3	30.0	22.9	15.9	14.1	14.1
71°	8879.9	1503.2	102.3	56.5	33.5	33.5	28.2	19.4	14.1	12.4	12.4
72.5°	7376.7	1067.4	86.5	44.1	30.0	35.3	30.0	17.6	14.1	12.4	10.6
75°	4282.0	446.4	60.0	30.0	22.9	42.3	38.8	15.9	10.6	8.8	8.8
77.5°	1288.0	164.1	33.5	19.4	17.6	37.1	44.1	14.1	5.3	1.8	1.8
80°	234.7	70.6	21.2	12.4	12.4	22.9	33.5	7.1	0.0	0.0	0.0
82.5°	82.9	35.3	12.4	7.1	5.3	10.6	15.9	0.0	0.0	0.0	0.0
85°	47.6	24.7	7.1	3.5	0.0	1.8	3.5	0.0	0.0	0.0	0.0
87.5°	31.8	7.1	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)