

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: P321683

Luminaire Tested: **GAN-SA9B-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321683
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-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 39292 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

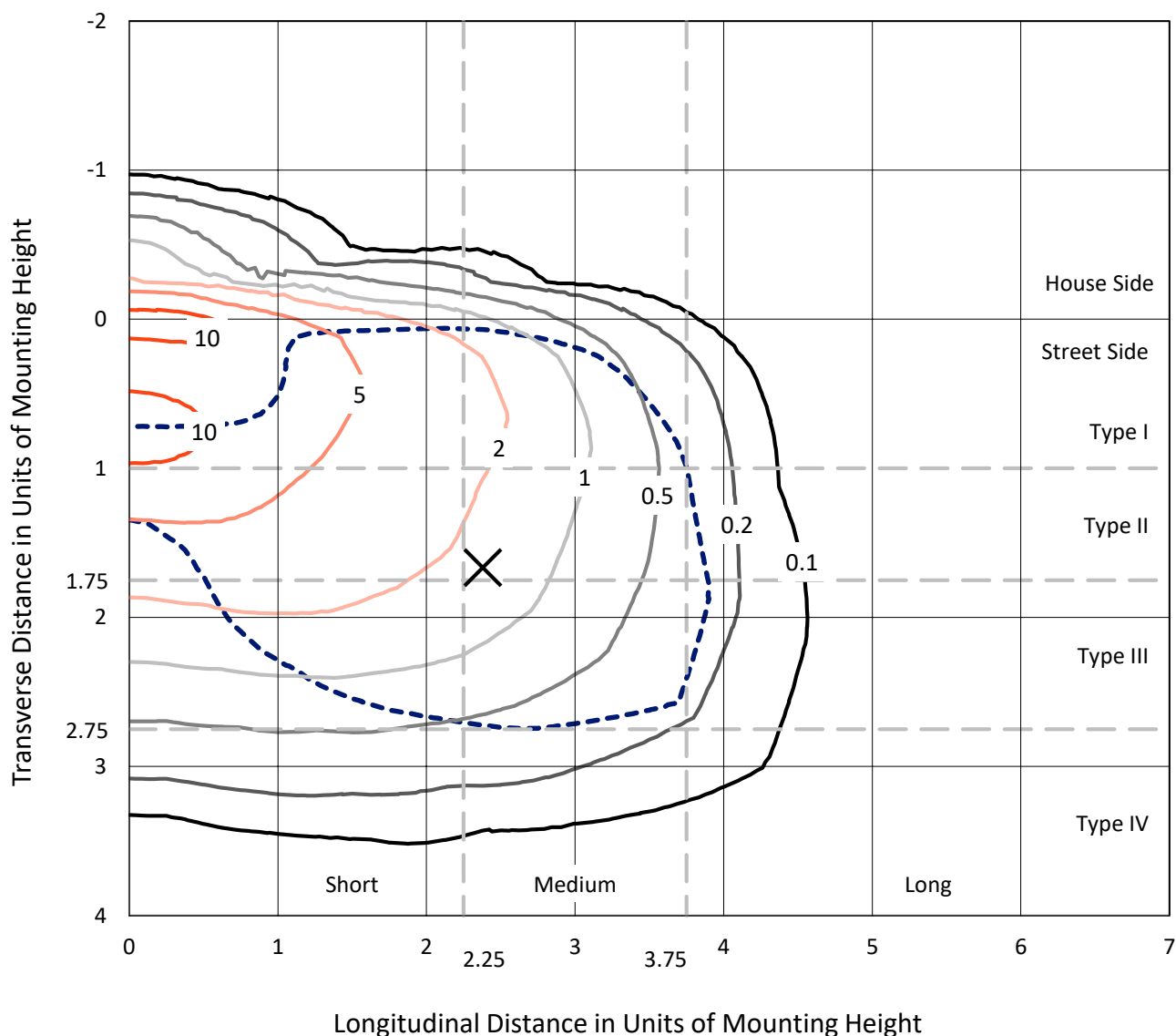
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

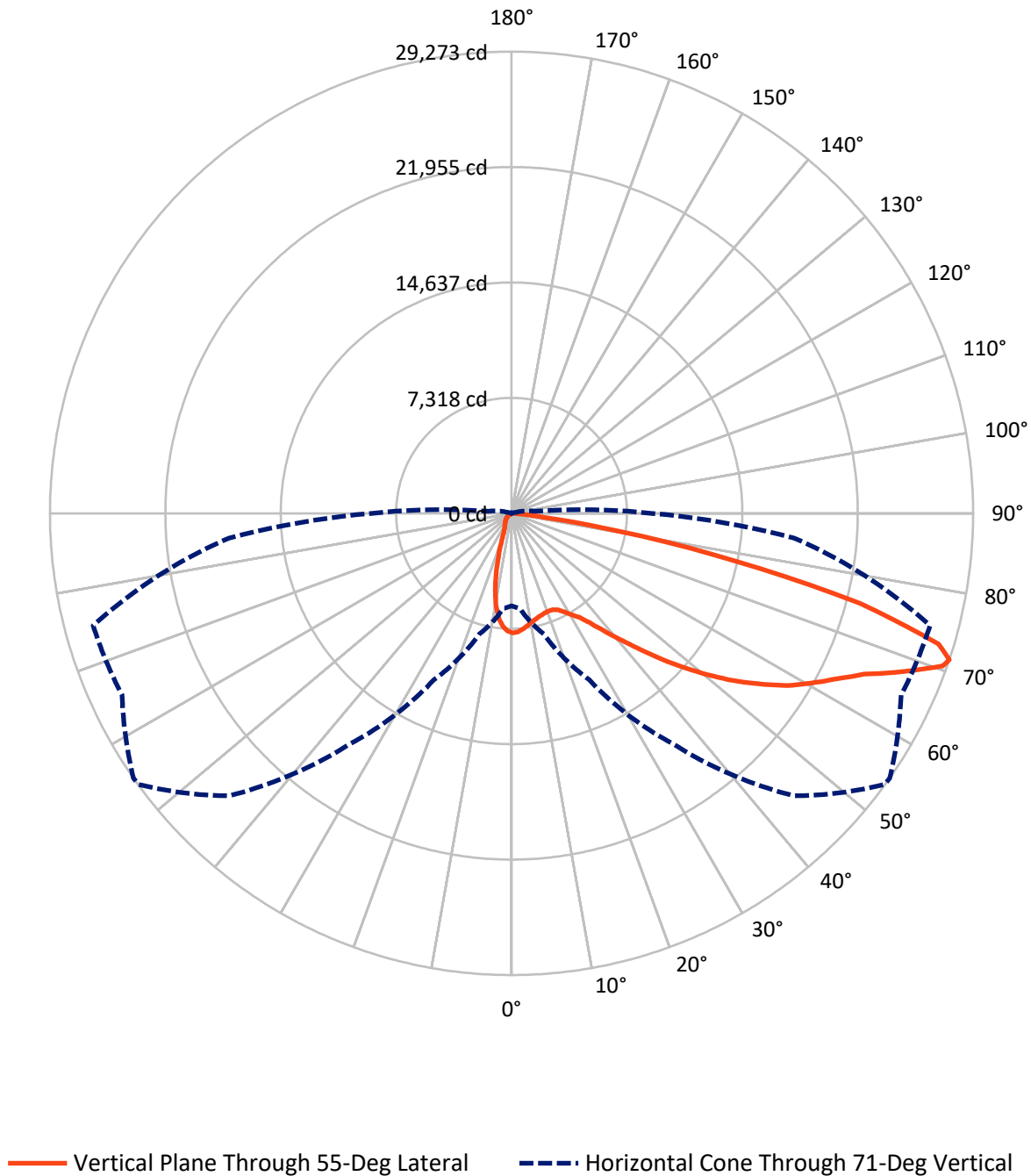
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3110.8	0.0	3110.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36181.2	0.0	36181.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	39292.0	0.0	39292.0
	% 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°	2344.0	6.0
30°-40°	3982.6	10.1
40°-50°	6181.5	15.7
50°-60°	8310.9	21.2
60°-70°	10167.0	25.9
70°-80°	5944.4	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°	39292.0	100.0
0°-180°	39292.0	100.0

Coefficient of Utilization



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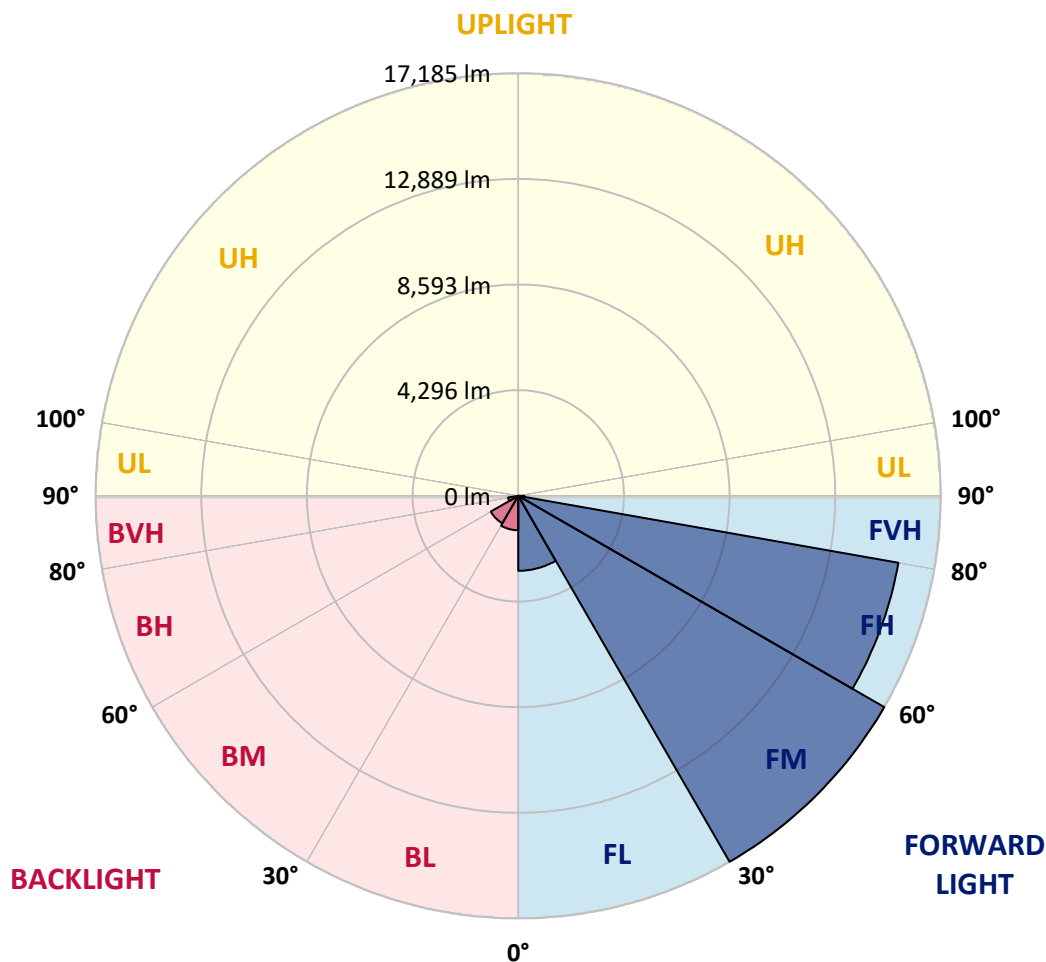
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3048.5	7.8			
FM	(30°-60°)	17185.2	43.7			
FH	(60°-80°)	15694.6	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°	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6
2.5°	7355.3	7364.1	7395.9	7410.0	7443.5	7500.0	7528.2	7530.0	7575.8	7593.5	7607.6
5°	6834.8	6887.8	6940.7	6997.2	7099.5	7235.3	7369.4	7381.8	7530.0	7639.4	7697.6
7.5°	6386.7	6434.3	6497.9	6587.8	6732.5	6946.0	7170.1	7196.5	7477.0	7725.8	7856.4
10°	5926.2	5965.0	6056.8	6189.1	6388.5	6674.3	6976.0	7020.1	7429.4	7842.2	8071.6
12.5°	5434.0	5456.9	5568.1	5758.6	6051.5	6414.9	6811.9	6870.1	7399.4	7976.3	8325.7
15°	5060.0	5070.6	5176.4	5374.0	5709.2	6182.1	6684.9	6755.4	7406.5	8136.9	8602.7
17.5°	4964.7	4970.0	5026.4	5162.3	5458.7	5973.9	6584.3	6670.8	7427.6	8293.9	8881.4
20°	5351.1	5314.0	5255.8	5234.6	5361.7	5848.6	6524.3	6621.4	7455.9	8433.3	9131.9
22.5°	6411.4	6302.0	6060.3	5737.5	5541.6	5857.4	6540.2	6637.2	7545.8	8604.4	9421.3
25°	7985.2	7833.4	7422.3	6787.2	6176.8	6111.5	6672.5	6771.3	7720.5	8809.1	9698.3
27.5°	9775.9	9625.9	9123.1	8216.3	7175.3	6614.3	6976.0	7067.7	7979.9	8990.8	9910.0
30°	11490.8	11448.4	10855.6	9825.3	8431.5	7429.4	7367.7	7445.3	8172.2	9100.2	10077.6
32.5°	12944.6	12877.5	12401.2	11399.0	9869.4	8408.6	7828.1	7851.1	8316.8	9241.3	10296.4
35°	14292.5	14209.5	13791.4	12844.0	11344.4	9604.8	8537.4	8503.9	8632.6	9525.4	10613.9
37.5°	15469.2	15545.1	15081.1	14179.6	12667.6	10848.6	9493.6	9393.1	9126.6	9987.6	11074.4
40°	16453.7	16453.7	16212.0	15460.4	14096.6	12134.8	10575.1	10442.8	9869.4	10700.4	11658.4
42.5°	16808.3	16884.2	16974.2	16549.0	15375.7	13472.1	11780.1	11642.5	10915.6	11711.3	12395.9
45°	16829.5	16949.5	17410.0	17408.2	16531.3	14800.6	13138.6	13073.4	12256.5	13009.8	13309.8
47.5°	16531.3	16681.3	17440.0	17870.4	17447.0	16037.3	14624.2	14543.0	13832.0	14601.2	14266.0
50°	16070.9	16236.7	17118.9	18052.2	18069.8	17113.6	16189.1	16067.3	15566.3	16420.2	15254.0
52.5°	15246.9	15568.0	16831.3	18094.5	18479.1	18043.3	17678.1	17625.2	17507.0	18172.1	16040.9
55°	13484.4	13840.8	16109.7	18108.6	18858.4	18867.3	19073.7	19087.8	19326.0	19809.4	16626.6
57.5°	12651.7	12852.8	14850.0	18175.7	19421.2	19802.3	20495.7	20605.1	20973.8	21363.7	17295.3
60°	12127.7	12365.9	14229.0	18083.9	20305.2	21028.5	21813.6	21850.7	22245.9	22967.5	18200.4
62.5°	11709.6	11944.2	13837.3	17731.1	21298.4	22503.5	23101.5	23105.1	23401.5	24878.2	19228.9
65°	10677.5	10875.1	13045.1	17334.1	21954.8	23962.5	24597.7	24574.7	24816.4	26893.0	20423.4
67.5°	9184.9	9336.6	11427.3	15829.2	21707.8	25289.3	26855.9	26780.1	26487.2	28634.3	20892.7
70°	7101.2	7155.9	9006.7	13191.6	19393.0	25799.1	29038.4	28999.5	27512.3	28322.1	19172.5
71°	5869.8	6049.7	7937.5	11642.5	17842.2	25328.1	29250.1	29273.0	27254.7	27471.7	17988.6
72.5°	3408.6	3562.1	5753.3	8941.4	15148.1	23362.7	28152.7	28318.5	26051.4	24987.6	15365.2
75°	730.4	781.6	2133.0	4327.8	8332.7	16374.3	22221.2	22812.2	21233.2	16998.9	9260.7
77.5°	508.1	548.7	913.9	1963.6	2754.0	8091.0	13803.8	14470.7	12685.2	6388.5	2964.0
80°	402.3	448.1	712.8	970.4	744.5	2609.4	6466.1	6873.7	4230.8	1425.5	499.3
82.5°	224.1	266.4	555.7	524.0	285.8	495.8	1810.2	2046.6	846.9	287.6	118.2
85°	65.3	79.4	358.1	381.1	121.7	95.3	308.7	382.8	160.5	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°	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6	7577.6
2.5°	7607.6	7619.9	7575.8	7517.6	7455.9	7380.0	7300.6	7238.9	7237.1	7207.1	7177.1
5°	7701.1	7694.0	7572.3	7387.1	7168.3	6940.7	6723.7	6478.5	6397.3	6296.7	6263.2
7.5°	7874.0	7824.6	7567.0	7161.2	6681.3	6205.0	5712.8	5217.0	5005.3	4814.7	4781.2
10°	8091.0	7997.5	7533.5	6822.5	5942.1	5063.5	4320.7	3646.8	3350.4	3122.8	3112.2
12.5°	8316.8	8173.9	7440.0	6310.8	4973.5	3738.5	2882.8	2219.5	1972.5	1813.7	1827.8
15°	8553.3	8339.8	7238.9	5621.0	3870.8	2537.0	1771.3	1381.4	1282.6	1242.1	1252.6
17.5°	8795.0	8454.5	6958.3	4790.0	2782.3	1637.3	1226.2	1116.8	1116.8	1125.6	1129.1
20°	9004.9	8516.2	6545.5	3858.5	1886.0	1192.7	1072.7	1056.8	1065.6	1079.7	1081.5
22.5°	9213.1	8519.7	6007.4	2914.6	1319.7	1044.5	1021.5	1014.5	1019.8	1035.6	1037.4
25°	9382.5	8477.4	5333.4	2073.0	1053.3	984.5	973.9	970.4	973.9	993.3	993.3
27.5°	9451.3	8323.9	4511.3	1457.3	943.9	917.4	913.9	917.4	922.7	936.8	938.6
30°	9458.3	8055.7	3615.0	1055.0	855.7	827.4	834.5	846.9	841.6	838.0	841.6
32.5°	9476.0	7745.2	2741.7	868.0	781.6	737.5	728.6	728.6	707.5	695.1	688.1
35°	9534.2	7380.0	1988.3	779.8	705.7	654.5	621.0	582.2	541.6	520.5	515.2
37.5°	9625.9	6997.2	1423.8	721.6	638.7	580.4	516.9	448.1	389.9	374.0	374.0
40°	9793.5	6602.0	1053.3	675.7	585.7	513.4	418.1	328.2	275.2	266.4	266.4
42.5°	10058.2	6185.6	839.8	635.1	539.9	444.6	319.3	238.2	199.4	194.1	192.3
45°	10333.4	5726.9	733.9	596.3	490.5	365.2	236.4	176.4	153.5	148.2	148.2
47.5°	10608.6	5238.2	682.8	559.3	442.8	284.0	176.4	139.4	128.8	128.8	130.6
50°	10841.5	4728.3	645.7	518.7	381.1	215.2	139.4	118.2	114.7	121.7	123.5
52.5°	10899.8	4227.2	599.9	467.5	305.2	164.1	114.7	104.1	104.1	104.1	104.1
55°	10864.5	3839.1	539.9	404.0	225.8	130.6	98.8	91.7	90.0	90.0	90.0
57.5°	10984.4	3609.7	432.2	314.0	162.3	105.9	86.4	81.2	77.6	75.9	75.9
60°	11226.1	3459.8	308.7	225.8	121.7	88.2	74.1	68.8	63.5	60.0	60.0
62.5°	11547.2	3329.2	229.4	167.6	93.5	70.6	61.7	56.5	49.4	45.9	45.9
65°	11794.2	3096.3	174.7	125.3	70.6	56.5	47.6	45.9	35.3	31.8	30.0
67.5°	11416.7	2584.7	141.1	91.7	52.9	44.1	37.0	35.3	21.2	17.6	17.6
70°	9791.8	1799.6	112.9	67.0	38.8	35.3	30.0	22.9	15.9	14.1	14.1
71°	8879.6	1503.2	102.3	56.5	33.5	33.5	28.2	19.4	14.1	12.3	12.3
72.5°	7376.5	1067.4	86.4	44.1	30.0	35.3	30.0	17.6	14.1	12.3	10.6
75°	4281.9	446.4	60.0	30.0	22.9	42.3	38.8	15.9	10.6	8.8	8.8
77.5°	1287.9	164.1	33.5	19.4	17.6	37.0	44.1	14.1	5.3	1.8	1.8
80°	234.6	70.6	21.2	12.3	12.3	22.9	33.5	7.1	0.0	0.0	0.0
82.5°	82.9	35.3	12.3	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)