

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: P321770

Luminaire Tested: **GAN-SA6C-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321770
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-SA6C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 25855 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

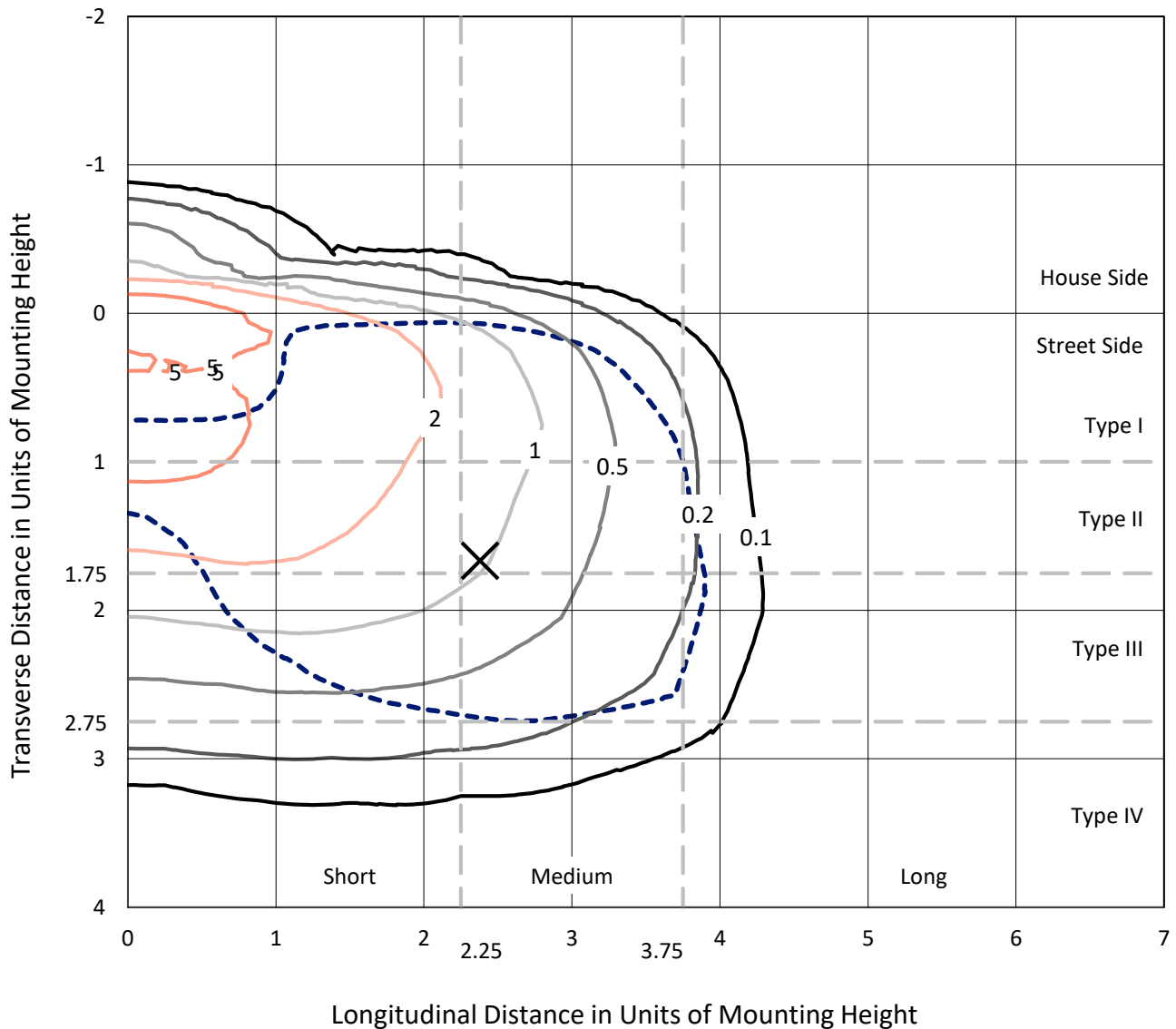
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321770
 CATALOG NUMBER: GAN-SA6C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

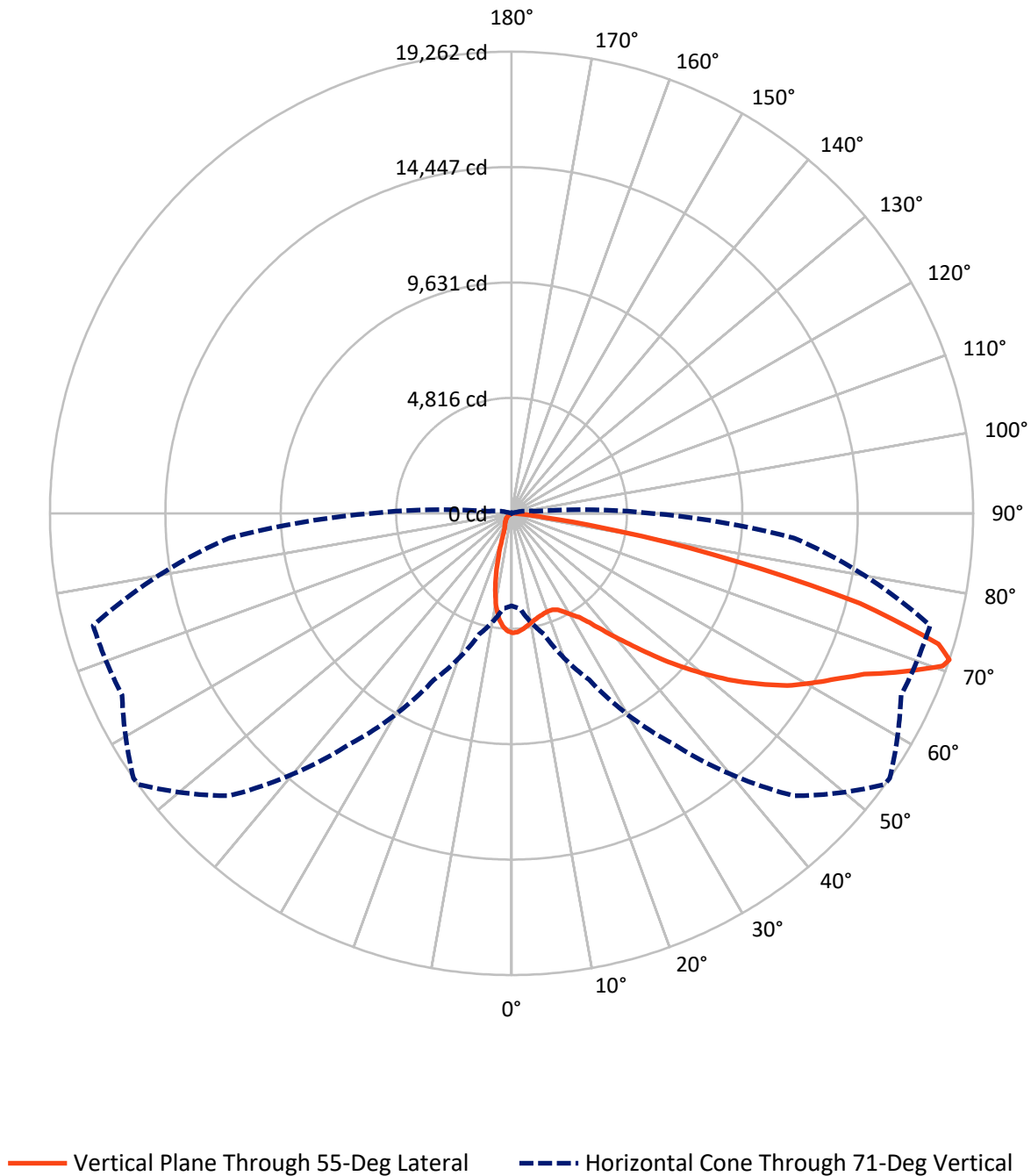
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P321770
CATALOG NUMBER: GAN-SA6C-830-U-T3R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.0	0.0	2047.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	23808.0	0.0	23808.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	25855.0	0.0	25855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	1.6
10°-20°	959.8	3.7
20°-30°	1542.4	6.0
30°-40°	2620.6	10.1
40°-50°	4067.6	15.7
50°-60°	5468.7	21.2
60°-70°	6690.1	25.9
70°-80°	3911.5	15.1
80°-90°	169.1	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°	25855.0	100.0
0°-180°	25855.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321770

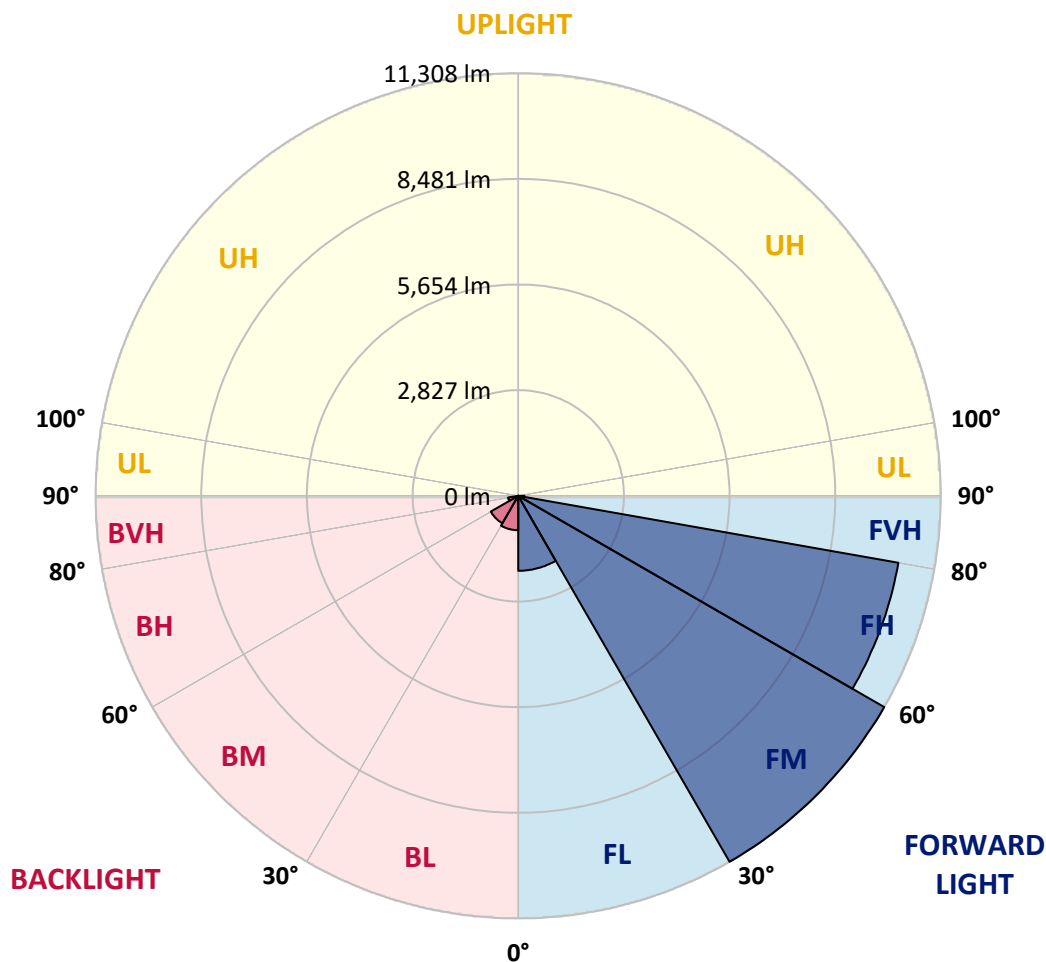
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2006.0	7.8			
FM	(30°-60°)	11308.2	43.7			
FH	(60°-80°)	10327.4	39.9			G4/12000
FVH	(80°-90°)	166.4	0.6			G2/225
BL	(0°-30°)	921.4	3.6	B2/1000		
BM	(30°-60°)	848.7	3.3	B1/1000		
BH	(60°-80°)	274.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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 III Medium



REPORT NUMBER: P321770

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2
2.5°	4840.0	4845.8	4866.7	4875.9	4898.0	4935.1	4953.7	4954.9	4985.1	4996.7	5006.0
5°	4497.5	4532.3	4567.1	4604.3	4671.6	4761.0	4849.2	4857.4	4954.9	5026.9	5065.2
7.5°	4202.6	4233.9	4275.7	4334.9	4430.1	4570.6	4718.1	4735.5	4920.1	5083.7	5169.7
10°	3899.6	3925.1	3985.5	4072.6	4203.8	4391.8	4590.3	4619.4	4888.7	5160.4	5311.3
12.5°	3575.7	3590.8	3663.9	3789.3	3982.0	4221.2	4482.4	4520.7	4869.0	5248.6	5478.5
15°	3329.6	3336.5	3406.2	3536.2	3756.8	4067.9	4398.8	4445.2	4873.6	5354.2	5660.7
17.5°	3266.9	3270.4	3307.5	3396.9	3591.9	3930.9	4332.6	4389.5	4887.5	5457.6	5844.2
20°	3521.1	3496.7	3458.4	3444.5	3528.1	3848.5	4293.1	4357.0	4906.1	5549.3	6009.0
22.5°	4218.8	4146.9	3987.8	3775.4	3646.5	3854.3	4303.6	4367.4	4965.3	5661.9	6199.4
25°	5254.4	5154.6	4884.1	4466.1	4064.4	4021.5	4390.7	4455.7	5080.3	5796.6	6381.7
27.5°	6432.8	6334.1	6003.2	5406.5	4721.5	4352.4	4590.3	4650.7	5250.9	5916.1	6521.0
30°	7561.2	7533.3	7143.3	6465.3	5548.1	4888.7	4848.1	4899.2	5377.5	5988.1	6631.3
32.5°	8517.8	8473.7	8160.2	7500.8	6494.3	5533.0	5151.1	5166.2	5472.7	6081.0	6775.2
35°	9404.8	9350.2	9075.1	8451.6	7464.8	6320.1	5617.8	5595.7	5680.5	6267.9	6984.2
37.5°	10179.1	10229.0	9923.7	9330.5	8335.5	7138.6	6247.0	6180.8	6005.5	6572.1	7287.2
40°	10826.9	10826.9	10667.9	10173.3	9275.9	7984.9	6958.7	6871.6	6494.3	7041.1	7671.5
42.5°	11060.3	11110.2	11169.4	10889.6	10117.6	8864.9	7751.6	7661.0	7182.7	7706.3	8156.8
45°	11074.2	11153.1	11456.1	11455.0	10878.0	9739.1	8645.5	8602.6	8065.0	8560.8	8758.1
47.5°	10878.0	10976.7	11475.9	11759.1	11480.5	10552.9	9623.0	9569.6	9101.8	9607.9	9387.3
50°	10575.0	10684.1	11264.6	11878.7	11890.3	11261.1	10652.8	10572.7	10243.0	10804.9	10037.5
52.5°	10032.8	10244.1	11075.4	11906.6	12159.7	11872.9	11632.6	11597.8	11520.0	11957.7	10555.2
55°	8873.1	9107.6	10600.5	11915.9	12409.3	12415.1	12550.9	12560.2	12716.9	13035.0	10940.7
57.5°	8325.1	8457.4	9771.6	11960.0	12779.6	13030.4	13486.6	13558.6	13801.2	14057.8	11380.7
60°	7980.3	8137.0	9363.0	11899.6	13361.2	13837.2	14353.8	14378.2	14638.3	15113.1	11976.2
62.5°	7705.1	7859.6	9105.2	11667.4	14014.8	14807.8	15201.3	15203.6	15398.7	16370.4	12653.1
65°	7026.0	7156.0	8584.0	11406.2	14446.7	15767.9	16185.8	16170.7	16329.8	17696.2	13439.0
67.5°	6043.8	6143.7	7519.4	10415.9	14284.2	16640.9	17671.8	17621.9	17429.2	18842.0	13747.8
70°	4672.8	4708.8	5926.6	8680.3	12761.0	16976.4	19107.9	19082.3	18103.7	18636.5	12615.9
71°	3862.4	3980.9	5223.1	7661.0	11740.6	16666.4	19247.2	19262.3	17934.2	18077.0	11836.9
72.5°	2242.9	2343.9	3785.8	5883.6	9967.8	15373.1	18525.1	18634.2	17142.4	16442.4	10110.6
75°	480.6	514.3	1403.6	2847.8	5483.1	10774.7	14622.0	15010.9	13971.9	11185.6	6093.8
77.5°	334.4	361.1	601.4	1292.1	1812.2	5324.1	9083.2	9522.0	8347.1	4203.8	1950.4
80°	264.7	294.9	469.0	638.5	489.9	1717.0	4254.8	4523.0	2783.9	938.0	328.5
82.5°	147.4	175.3	365.7	344.8	188.1	326.2	1191.1	1346.7	557.3	189.2	77.8
85°	43.0	52.2	235.7	250.8	80.1	62.7	203.2	251.9	105.6	49.9	34.8
87.5°	0.0	0.0	113.8	96.4	23.2	9.3	18.6	20.9	20.9	20.9	23.2
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: P321770

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2	4986.2
2.5°	5006.0	5014.1	4985.1	4946.8	4906.1	4856.2	4804.0	4763.3	4762.2	4742.4	4722.7
5°	5067.5	5062.9	4982.7	4860.8	4716.9	4567.1	4424.3	4263.0	4209.6	4143.4	4121.3
7.5°	5181.3	5148.8	4979.3	4712.2	4396.5	4083.0	3759.1	3432.9	3293.6	3168.2	3146.1
10°	5324.1	5262.5	4957.2	4489.3	3910.0	3331.9	2843.1	2399.7	2204.6	2054.9	2047.9
12.5°	5472.7	5378.6	4895.7	4152.7	3272.7	2460.0	1897.0	1460.5	1297.9	1193.4	1202.7
15°	5628.2	5487.8	4763.3	3698.7	2547.1	1669.4	1165.6	909.0	844.0	817.3	824.3
17.5°	5787.3	5563.2	4578.7	3151.9	1830.8	1077.4	806.9	734.9	734.9	740.7	743.0
20°	5925.4	5603.8	4307.1	2539.0	1241.0	784.8	705.9	695.4	701.2	710.5	711.7
22.5°	6062.4	5606.2	3953.0	1917.9	868.4	687.3	672.2	667.5	671.0	681.5	682.6
25°	6173.9	5578.3	3509.5	1364.1	693.1	647.8	640.8	638.5	640.8	653.6	653.6
27.5°	6219.1	5477.3	2968.5	958.9	621.1	603.7	601.4	603.7	607.2	616.5	617.6
30°	6223.8	5300.8	2378.8	694.2	563.1	544.5	549.1	557.3	553.8	551.4	553.8
32.5°	6235.4	5096.5	1804.1	571.2	514.3	485.3	479.5	479.5	465.5	457.4	452.8
35°	6273.7	4856.2	1308.4	513.1	464.4	430.7	408.7	383.1	356.4	342.5	339.0
37.5°	6334.1	4604.3	936.9	474.8	420.3	381.9	340.2	294.9	256.6	246.1	246.1
40°	6444.4	4344.2	693.1	444.6	385.4	337.8	275.1	215.9	181.1	175.3	175.3
42.5°	6618.5	4070.2	552.6	417.9	355.2	292.6	210.1	156.7	131.2	127.7	126.5
45°	6799.6	3768.4	483.0	392.4	322.7	240.3	155.6	116.1	101.0	97.5	97.5
47.5°	6980.7	3446.8	449.3	368.0	291.4	186.9	116.1	91.7	84.7	84.7	85.9
50°	7134.0	3111.3	424.9	341.3	250.8	141.6	91.7	77.8	75.5	80.1	81.3
52.5°	7172.3	2781.6	394.7	307.6	200.8	108.0	75.5	68.5	68.5	68.5	68.5
55°	7149.1	2526.2	355.2	265.9	148.6	85.9	65.0	60.4	59.2	59.2	59.2
57.5°	7228.0	2375.3	284.4	206.6	106.8	69.7	56.9	53.4	51.1	49.9	49.9
60°	7387.0	2276.6	203.2	148.6	80.1	58.0	48.8	45.3	41.8	39.5	39.5
62.5°	7598.3	2190.7	150.9	110.3	61.5	46.4	40.6	37.2	32.5	30.2	30.2
65°	7760.9	2037.4	114.9	82.4	46.4	37.2	31.3	30.2	23.2	20.9	19.7
67.5°	7512.4	1700.8	92.9	60.4	34.8	29.0	24.4	23.2	13.9	11.6	11.6
70°	6443.2	1184.2	74.3	44.1	25.5	23.2	19.7	15.1	10.4	9.3	9.3
71°	5843.0	989.1	67.3	37.2	22.1	22.1	18.6	12.8	9.3	8.1	8.1
72.5°	4853.9	702.4	56.9	29.0	19.7	23.2	19.7	11.6	9.3	8.1	7.0
75°	2817.6	293.7	39.5	19.7	15.1	27.9	25.5	10.4	7.0	5.8	5.8
77.5°	847.5	108.0	22.1	12.8	11.6	24.4	29.0	9.3	3.5	1.2	1.2
80°	154.4	46.4	13.9	8.1	8.1	15.1	22.1	4.6	0.0	0.0	0.0
82.5°	54.6	23.2	8.1	4.6	3.5	7.0	10.4	0.0	0.0	0.0	0.0
85°	31.3	16.3	4.6	2.3	0.0	1.2	2.3	0.0	0.0	0.0	0.0
87.5°	20.9	4.6	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)