

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: P321524

Luminaire Tested: **GAN-SA0B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321524
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-SA0B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 36380 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

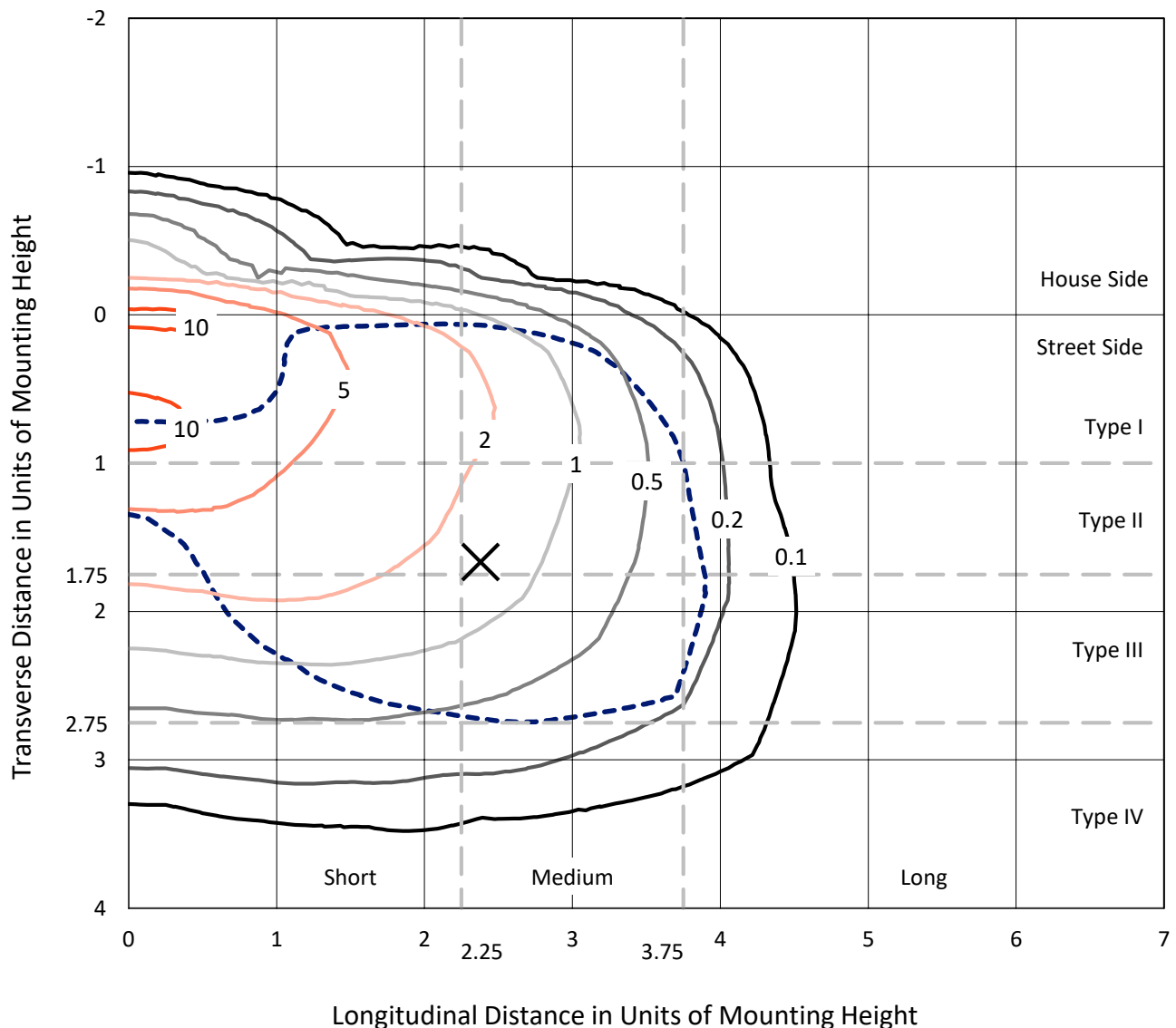
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

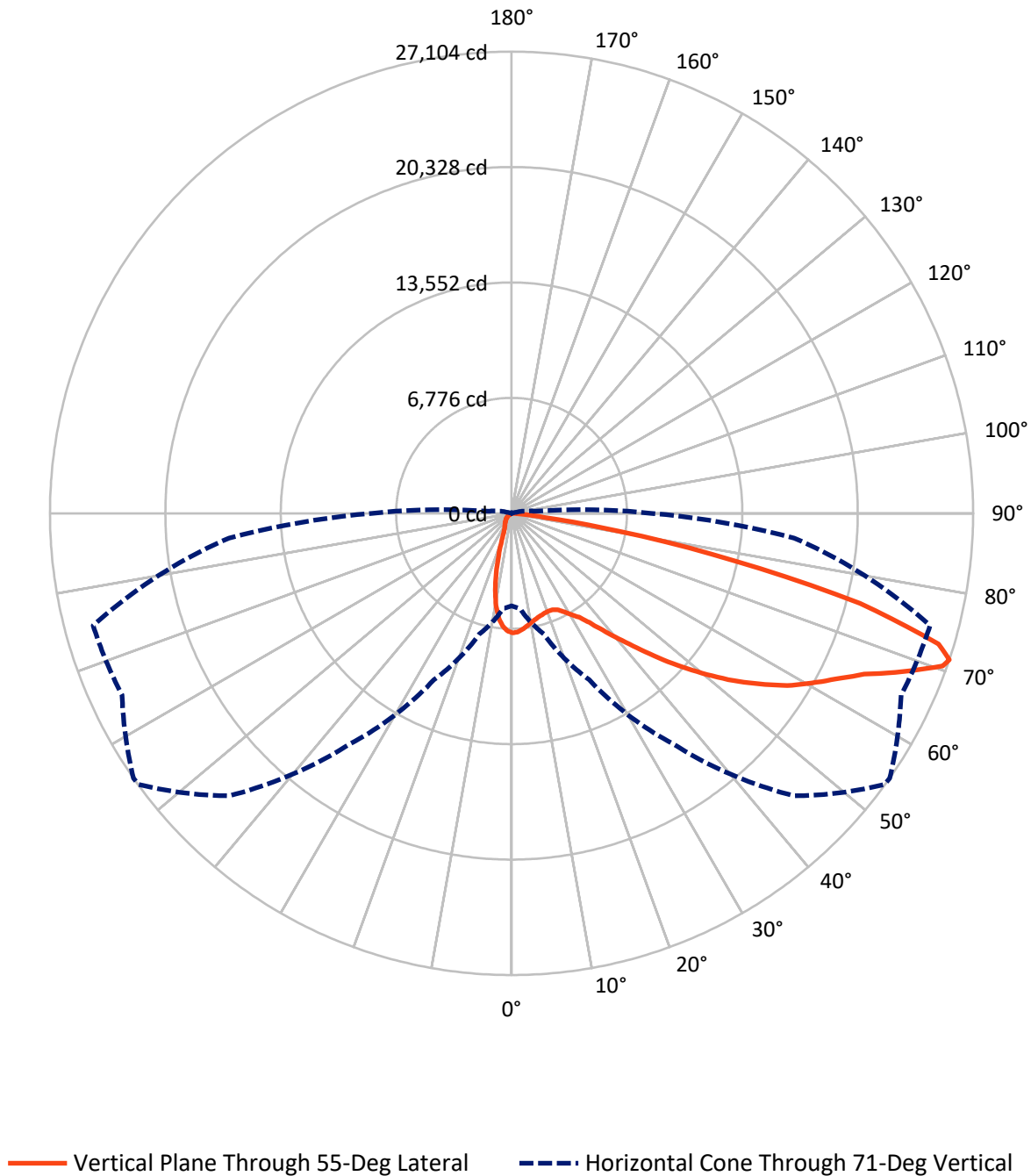
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	2880.3	0.0	2880.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	33499.7	0.0	33499.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	36380.0	0.0	36380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.2	1.6
10°-20°	1350.5	3.7
20°-30°	2170.3	6.0
30°-40°	3687.4	10.1
40°-50°	5723.4	15.7
50°-60°	7694.9	21.2
60°-70°	9413.5	25.9
70°-80°	5503.8	15.1
80°-90°	237.9	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°	36380.0	100.0
0°-180°	36380.0	100.0

Coefficient of Utilization



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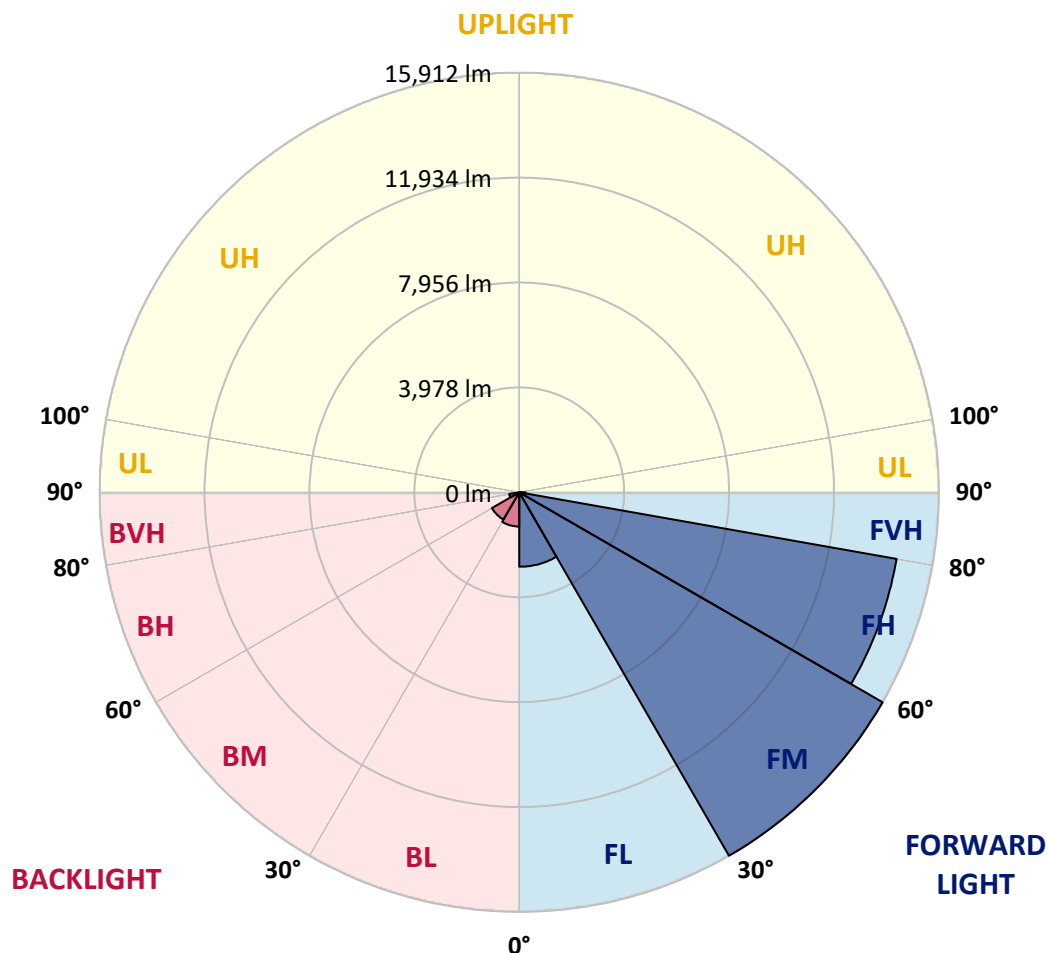
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2822.6	7.8			
FM	(30°-60°)	15911.6	43.7			
FH	(60°-80°)	14531.4	39.9			G5
FVH	(80°-90°)	234.2	0.6			G3/500
BL	(0°-30°)	1296.4	3.6	B3/2500		
BM	(30°-60°)	1194.2	3.3	B2/2500		
BH	(60°-80°)	385.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0
2.5°	6810.2	6818.4	6847.8	6860.8	6891.9	6944.1	6970.3	6971.9	7014.4	7030.7	7043.8
5°	6328.3	6377.3	6426.3	6478.6	6573.3	6699.1	6823.3	6834.7	6971.9	7073.2	7127.1
7.5°	5913.4	5957.5	6016.3	6099.6	6233.6	6431.2	6638.7	6663.2	6922.9	7153.2	7274.1
10°	5487.0	5523.0	5607.9	5730.4	5915.0	6179.6	6459.0	6499.8	6878.8	7261.0	7473.4
12.5°	5031.3	5052.5	5155.4	5331.8	5603.0	5939.5	6307.1	6361.0	6851.0	7385.2	7708.6
15°	4685.0	4694.8	4792.8	4975.7	5286.1	5723.9	6189.4	6254.8	6857.6	7533.8	7965.1
17.5°	4596.8	4601.7	4653.9	4779.7	5054.1	5531.1	6096.3	6176.4	6877.2	7679.2	8223.2
20°	4954.5	4920.2	4866.3	4846.7	4964.3	5415.2	6040.8	6130.6	6903.3	7808.3	8455.2
22.5°	5936.2	5835.0	5611.2	5312.2	5130.9	5423.3	6055.5	6145.3	6986.6	7966.7	8723.1
25°	7393.4	7252.9	6872.3	6284.2	5719.0	5658.5	6178.0	6269.5	7148.3	8156.2	8979.5
27.5°	9051.4	8912.5	8447.0	7607.4	6643.6	6124.1	6459.0	6543.9	7388.5	8324.5	9175.5
30°	10639.2	10600.0	10051.1	9097.1	7806.6	6878.8	6821.6	6893.5	7566.5	8425.8	9330.7
32.5°	11985.2	11923.1	11482.1	10554.2	9138.0	7785.4	7248.0	7269.2	7700.5	8556.4	9533.3
35°	13233.2	13156.5	12769.3	11892.1	10503.6	8892.9	7904.7	7873.6	7992.9	8819.4	9827.3
37.5°	14322.8	14393.0	13963.4	13128.7	11728.7	10044.6	8790.0	8696.9	8450.3	9247.4	10253.7
40°	15234.3	15234.3	15010.5	14314.6	13051.9	11235.4	9791.4	9668.9	9138.0	9907.4	10794.4
42.5°	15562.6	15632.9	15716.2	15322.5	14236.2	12473.6	10907.1	10779.7	10106.7	10843.4	11477.2
45°	15582.2	15693.3	16119.7	16118.0	15306.2	13703.7	12164.9	12104.5	11348.1	12045.7	12323.4
47.5°	15306.2	15445.0	16147.4	16546.0	16154.0	14848.8	13540.3	13465.2	12806.9	13519.1	13208.7
50°	14879.8	15033.4	15850.1	16714.3	16730.6	15845.2	14989.3	14876.6	14412.6	15203.3	14123.5
52.5°	14117.0	14414.3	15583.9	16753.5	17109.6	16706.1	16368.0	16319.0	16209.5	16825.4	14852.1
55°	12485.1	12815.0	14915.8	16766.6	17460.8	17469.0	17660.1	17673.2	17893.7	18341.3	15394.4
57.5°	11714.0	11900.3	13749.4	16828.6	17981.9	18334.7	18976.7	19078.0	19419.4	19780.4	16013.5
60°	11228.9	11449.4	13174.4	16743.7	18800.3	19470.1	20197.0	20231.3	20597.2	21265.3	16851.5
62.5°	10841.7	11059.0	12811.8	16417.0	19720.0	20835.7	21389.4	21392.7	21667.1	23034.4	17803.8
65°	9886.1	10069.1	12078.3	16049.4	20327.7	22186.6	22774.7	22753.4	22977.2	24899.9	18909.7
67.5°	8504.2	8644.6	10580.4	14656.0	20099.0	23415.0	24865.6	24795.4	24524.2	26512.2	19344.3
70°	6575.0	6625.6	8339.2	12213.9	17955.8	23887.1	26886.3	26850.3	25473.3	26223.1	17751.6
71°	5434.8	5601.4	7349.3	10779.7	16519.9	23451.0	27082.3	27103.5	25234.8	25435.7	16655.5
72.5°	3156.0	3298.1	5326.9	8278.7	14025.5	21631.2	26066.2	26219.8	24120.7	23135.7	14226.4
75°	676.3	723.7	1974.9	4007.1	7715.2	15160.8	20574.3	21121.5	19659.5	15739.1	8574.4
77.5°	470.5	508.0	846.2	1818.1	2549.9	7491.4	12780.7	13398.2	11745.1	5915.0	2744.3
80°	372.4	414.9	659.9	898.4	689.3	2416.0	5986.9	6364.2	3917.2	1319.9	462.3
82.5°	207.5	246.7	514.6	485.2	264.6	459.0	1676.0	1894.9	784.1	266.3	109.4
85°	60.4	73.5	331.6	352.8	112.7	88.2	285.9	354.5	148.7	70.2	49.0
87.5°	0.0	0.0	160.1	135.6	32.7	13.1	26.1	29.4	29.4	29.4	32.7
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°	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0	7016.0
2.5°	7043.8	7055.2	7014.4	6960.5	6903.3	6833.1	6759.5	6702.4	6700.7	6673.0	6645.2
5°	7130.4	7123.8	7011.1	6839.6	6637.0	6426.3	6225.4	5998.3	5923.2	5830.1	5799.0
7.5°	7290.4	7244.7	7006.2	6630.5	6186.2	5745.1	5289.4	4830.3	4634.3	4457.9	4426.9
10°	7491.4	7404.8	6975.2	6316.9	5501.7	4688.2	4000.5	3376.5	3102.1	2891.3	2881.5
12.5°	7700.5	7568.1	6888.6	5843.1	4604.9	3461.5	2669.2	2055.0	1826.3	1679.3	1692.3
15°	7919.4	7721.7	6702.4	5204.4	3584.0	2349.0	1640.1	1279.1	1187.6	1150.0	1159.8
17.5°	8143.1	7827.9	6442.6	4435.0	2576.1	1515.9	1135.3	1034.0	1034.0	1042.2	1045.5
20°	8337.5	7885.1	6060.4	3572.5	1746.2	1104.3	993.2	978.5	986.7	999.7	1001.4
22.5°	8530.3	7888.3	5562.2	2698.6	1221.9	967.1	945.8	939.3	944.2	958.9	960.5
25°	8687.1	7849.1	4938.2	1919.4	975.2	911.5	901.7	898.4	901.7	919.7	919.7
27.5°	8750.8	7707.0	4176.9	1349.3	873.9	849.4	846.2	849.4	854.3	867.4	869.0
30°	8757.4	7458.7	3347.1	976.9	792.3	766.1	772.7	784.1	779.2	775.9	779.2
32.5°	8773.7	7171.2	2538.5	803.7	723.7	682.8	674.6	674.6	655.0	643.6	637.1
35°	8827.6	6833.1	1841.0	722.0	653.4	606.0	575.0	539.1	501.5	481.9	477.0
37.5°	8912.5	6478.6	1318.3	668.1	591.3	537.4	478.6	414.9	361.0	346.3	346.3
40°	9067.7	6112.7	975.2	625.6	542.3	475.4	387.1	303.8	254.8	246.7	246.7
42.5°	9312.8	5727.2	777.6	588.1	499.9	411.6	295.7	220.5	184.6	179.7	178.1
45°	9567.6	5302.4	679.5	552.1	454.1	338.1	218.9	163.4	142.1	137.2	137.2
47.5°	9822.4	4850.0	632.2	517.8	410.0	263.0	163.4	129.0	119.2	119.2	120.9
50°	10038.0	4377.9	597.9	480.3	352.8	199.3	129.0	109.4	106.2	112.7	114.3
52.5°	10092.0	3913.9	555.4	432.9	282.6	151.9	106.2	96.4	96.4	96.4	96.4
55°	10059.3	3554.6	499.9	374.1	209.1	120.9	91.5	84.9	83.3	83.3	83.3
57.5°	10170.4	3342.2	400.2	290.8	150.3	98.0	80.0	75.1	71.9	70.2	70.2
60°	10394.2	3203.4	285.9	209.1	112.7	81.7	68.6	63.7	58.8	55.5	55.5
62.5°	10691.5	3082.5	212.4	155.2	86.6	65.3	57.2	52.3	45.7	42.5	42.5
65°	10920.2	2866.8	161.7	116.0	65.3	52.3	44.1	42.5	32.7	29.4	27.8
67.5°	10570.6	2393.1	130.7	84.9	49.0	40.8	34.3	32.7	19.6	16.3	16.3
70°	9066.1	1666.2	104.5	62.1	35.9	32.7	27.8	21.2	14.7	13.1	13.1
71°	8221.6	1391.8	94.7	52.3	31.0	31.0	26.1	18.0	13.1	11.4	11.4
72.5°	6829.8	988.3	80.0	40.8	27.8	32.7	27.8	16.3	13.1	11.4	9.8
75°	3964.6	413.3	55.5	27.8	21.2	39.2	35.9	14.7	9.8	8.2	8.2
77.5°	1192.5	151.9	31.0	18.0	16.3	34.3	40.8	13.1	4.9	1.6	1.6
80°	217.3	65.3	19.6	11.4	11.4	21.2	31.0	6.5	0.0	0.0	0.0
82.5°	76.8	32.7	11.4	6.5	4.9	9.8	14.7	0.0	0.0	0.0	0.0
85°	44.1	22.9	6.5	3.3	0.0	1.6	3.3	0.0	0.0	0.0	0.0
87.5°	29.4	6.5	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)