

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: P323138

Luminaire Tested: **GAN-SA4D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21679 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

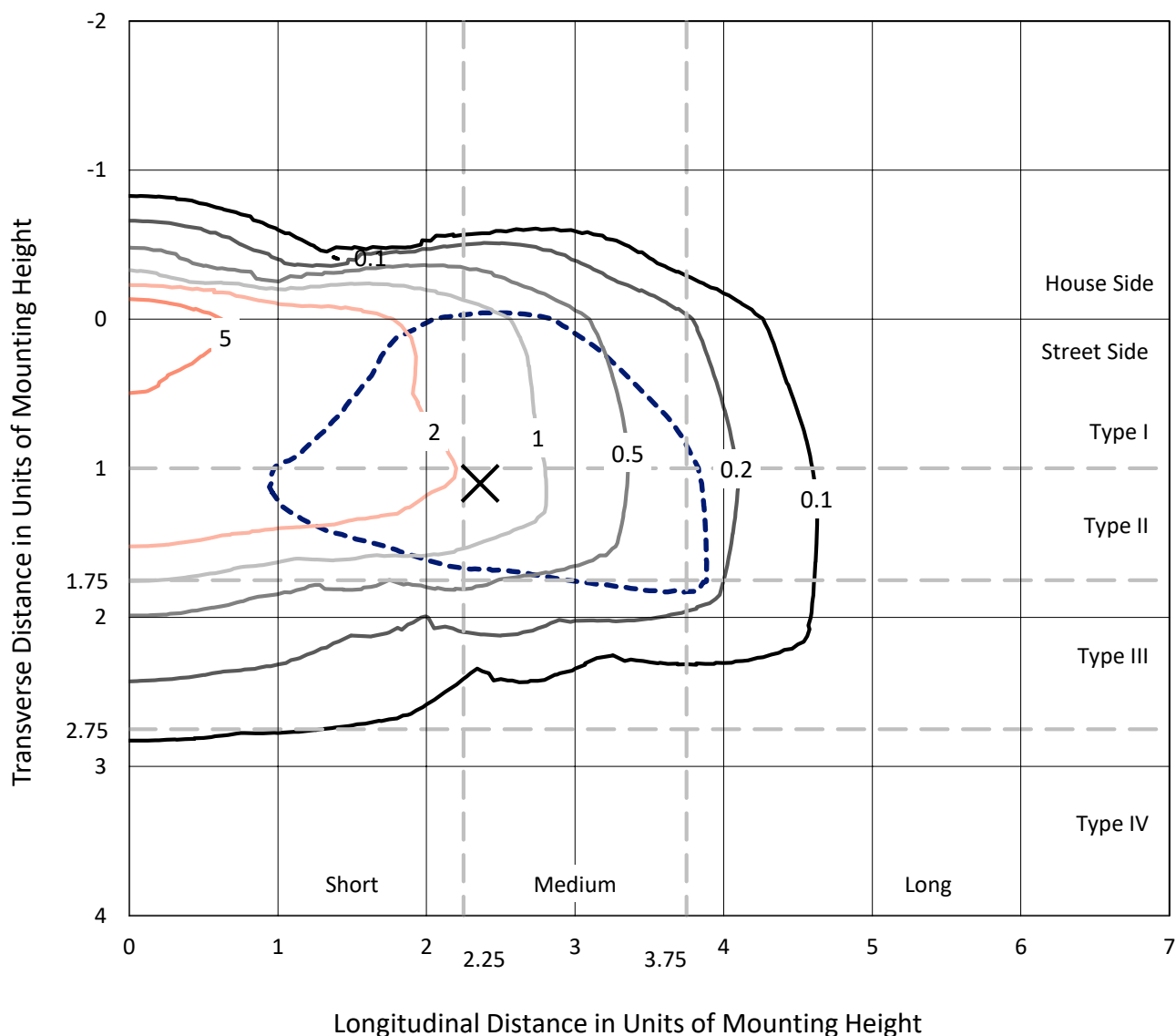
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323138
 CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

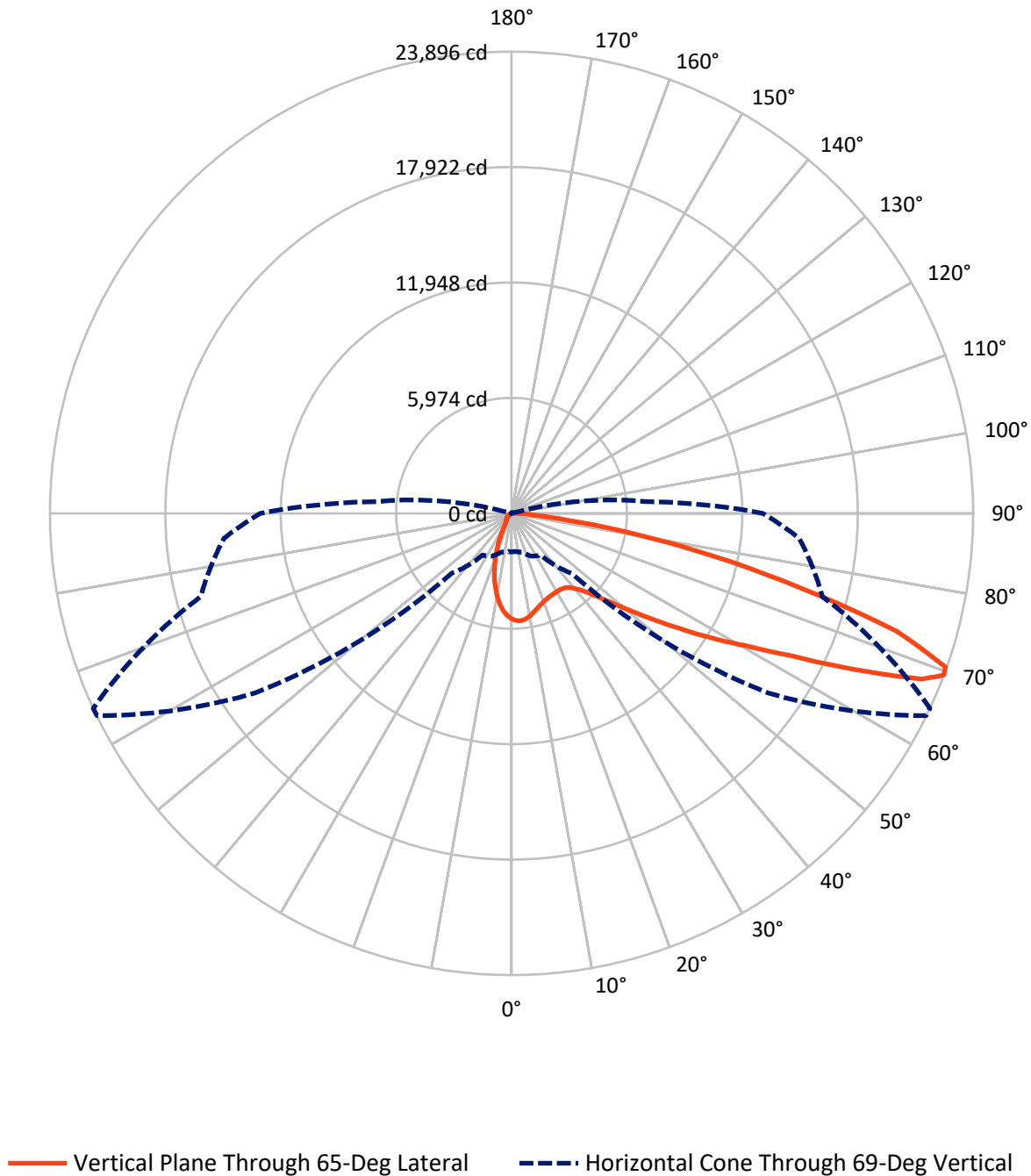
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P323138
CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323138

CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.4	0.0	2555.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	19123.6	0.0	19123.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	21679.0	0.0	21679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.1	2.1
10°-20°	1002.8	4.6
20°-30°	1388.9	6.4
30°-40°	1936.6	8.9
40°-50°	3010.1	13.9
50°-60°	4832.4	22.3
60°-70°	5466.2	25.2
70°-80°	3210.4	14.8
80°-90°	373.5	1.7
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°	21679.0	100.0
0°-180°	21679.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323138

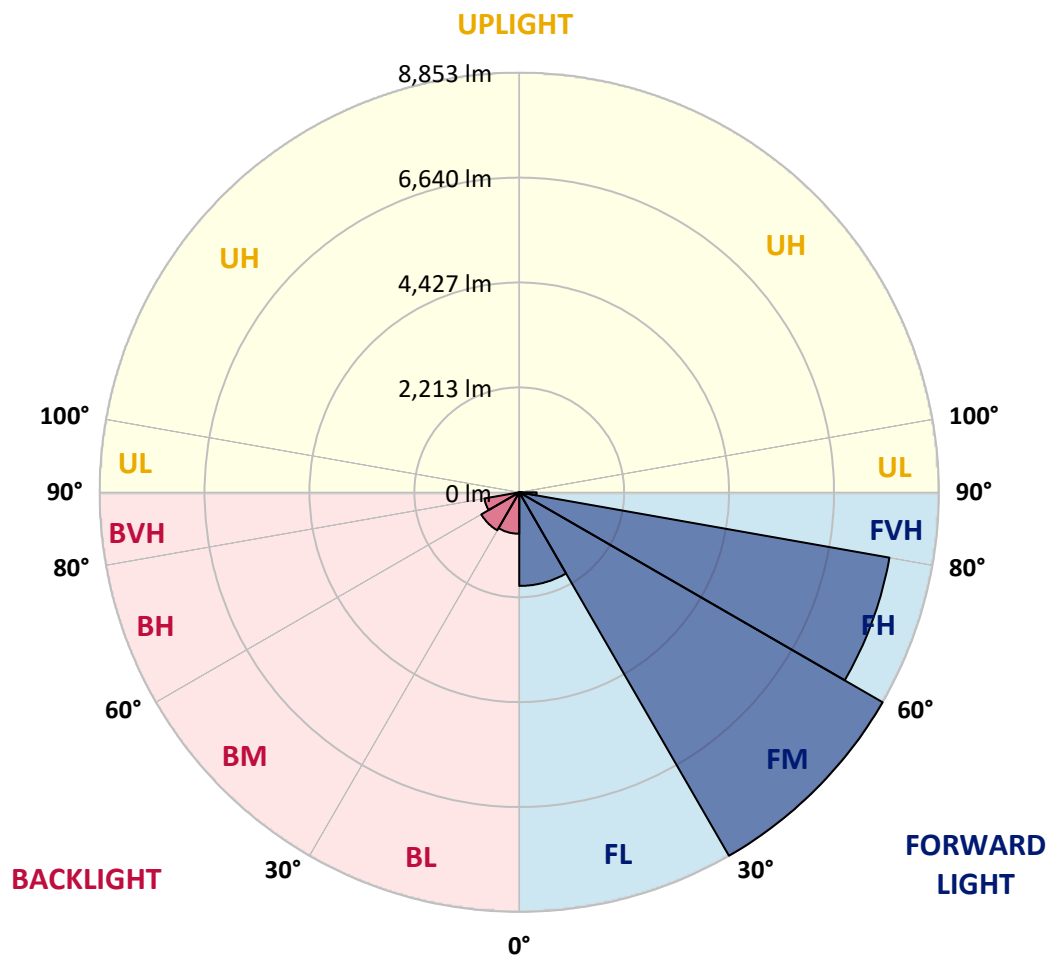
CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1975.5	9.1			
FM	(30°-60°)	8853.1	40.8			
FH	(60°-80°)	7930.0	36.6			G4/12000
FVH	(80°-90°)	365.1	1.7			G3/500
BL	(0°-30°)	874.4	4.0	B2/1000		
BM	(30°-60°)	926.0	4.3	B1/1000		
BH	(60°-80°)	746.7	3.4	B2/1000		G2/1000
BVH	(80°-90°)	8.4	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: P323138

CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3
2.5°	5526.9	5513.2	5524.2	5548.0	5560.0	5560.0	5569.1	5558.1	5561.8	5535.2	5496.7
5°	5181.1	5160.0	5190.3	5257.2	5339.8	5410.4	5515.0	5570.1	5575.6	5576.5	5531.5
7.5°	4808.7	4789.4	4834.4	4913.2	5019.7	5150.8	5333.4	5493.0	5502.2	5588.4	5555.4
10°	4505.9	4492.2	4544.5	4628.9	4753.6	4900.4	5124.2	5346.2	5372.8	5563.6	5551.7
12.5°	4265.6	4254.6	4304.1	4401.4	4528.9	4691.2	4925.2	5182.9	5218.7	5507.7	5533.4
15°	4090.4	4088.6	4129.8	4223.4	4364.7	4516.0	4755.5	5031.6	5072.9	5447.1	5530.6
17.5°	3998.7	4001.4	4031.7	4111.5	4232.6	4383.0	4612.4	4904.1	4949.0	5393.0	5544.4
20°	3989.5	3992.2	4008.8	4053.7	4151.9	4284.9	4495.9	4796.7	4843.5	5352.6	5566.4
22.5°	4070.2	4068.4	4073.0	4068.4	4123.4	4224.3	4418.8	4714.2	4768.3	5326.0	5583.8
25°	4225.2	4222.5	4220.7	4186.7	4150.0	4204.1	4386.7	4667.4	4718.8	5306.8	5593.9
27.5°	4440.8	4439.0	4436.2	4380.3	4270.2	4236.3	4390.4	4650.0	4693.1	5291.2	5592.1
30°	4724.3	4737.1	4733.4	4655.5	4483.9	4334.4	4428.9	4640.8	4678.4	5260.9	5572.8
32.5°	5057.3	5083.0	5103.1	5019.7	4805.0	4528.9	4517.9	4650.9	4678.4	5238.0	5537.9
35°	5403.1	5436.1	5510.4	5481.1	5198.5	4821.5	4671.1	4711.4	4734.4	5250.8	5521.4
37.5°	5743.4	5782.9	5944.3	6029.6	5714.1	5208.6	4909.6	4861.0	4872.9	5328.8	5539.8
40°	6138.8	6198.4	6443.4	6581.0	6329.6	5726.9	5266.4	5117.8	5122.4	5500.3	5625.1
42.5°	6658.0	6719.5	6984.6	7200.2	7023.1	6381.9	5750.8	5510.4	5505.8	5821.4	5826.0
45°	7291.0	7355.2	7629.5	7868.9	7789.1	7158.0	6370.9	6083.8	6078.3	6327.8	6206.7
47.5°	8008.3	8071.6	8316.6	8563.3	8649.5	8064.3	7160.7	6866.2	6853.4	7031.4	6794.7
50°	8623.9	8665.1	8890.8	9222.9	9611.8	9177.9	8143.2	7859.7	7846.0	7966.1	7657.9
52.5°	8847.7	8871.5	9100.9	9566.0	10536.5	10686.0	9433.9	9068.8	9058.7	9111.0	8807.3
55°	8394.5	8437.6	8719.3	9409.1	11037.4	12390.4	11063.1	10565.9	10489.7	10376.9	10009.0
57.5°	7159.8	7228.6	7531.3	8448.7	10803.4	13742.6	13457.3	12259.3	12147.3	11457.5	10986.0
60°	5364.6	5449.0	5700.3	6690.1	9555.0	14224.2	16073.5	14146.2	13893.9	12318.0	11884.1
62.5°	3681.3	3723.5	3894.1	4539.0	7036.9	13435.3	18262.3	16673.5	16213.0	13253.6	12855.5
65°	2811.6	2826.3	2896.0	3118.0	4190.4	10913.5	19132.8	20008.0	19451.2	14372.8	13863.7
67.5°	2265.8	2253.9	2350.2	2667.6	2806.1	6658.0	18117.4	23162.7	22902.2	15869.0	14878.2
69°	1998.0	1981.4	2079.6	2448.4	2635.5	4401.4	16196.5	23879.1	23895.6	16658.8	14948.0
70°	1798.0	1809.0	1906.2	2318.1	2577.7	3454.7	14361.8	23696.6	23826.8	16954.2	14529.7
72.5°	1200.8	1230.1	1425.5	1924.6	2478.6	2614.4	8671.6	20334.6	20835.4	16289.1	12465.7
75°	677.0	699.0	931.1	1451.2	2335.5	2489.6	4580.3	14981.0	15465.3	13621.5	9612.7
77.5°	332.1	344.0	526.5	936.6	1953.0	2372.2	2597.9	10176.0	10729.1	8890.8	5437.0
80°	140.4	146.8	263.3	577.9	1396.2	2264.0	1929.2	6262.6	6331.4	3483.1	1448.5
82.5°	54.1	56.0	111.0	360.5	887.1	1765.0	1613.6	2969.4	2897.9	655.9	330.2
85°	6.4	7.3	40.4	216.5	493.5	908.2	1310.9	1279.7	1184.3	130.3	169.7
87.5°	0.0	0.0	2.8	66.0	146.8	425.6	681.6	531.1	478.8	42.2	88.1
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: P323138

CATALOG NUMBER: GAN-SA4D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3	5478.3
2.5°	5464.6	5455.4	5405.9	5334.3	5266.4	5182.0	5101.3	5052.7	5014.2	4988.5	5018.7
5°	5479.2	5438.9	5288.4	5095.8	4906.8	4694.0	4495.9	4328.0	4261.9	4188.5	4221.6
7.5°	5474.7	5398.5	5127.9	4784.8	4438.1	4079.4	3740.0	3478.5	3342.8	3209.8	3243.7
10°	5451.7	5323.3	4913.2	4405.0	3885.8	3370.3	2888.7	2522.7	2318.1	2132.8	2159.4
12.5°	5401.3	5222.4	4660.1	3970.2	3275.8	2596.1	2031.9	1563.1	1311.8	1200.8	1214.6
15°	5371.0	5124.2	4392.2	3529.9	2624.5	1808.1	1242.1	923.8	809.1	772.4	777.0
17.5°	5356.3	5029.7	4115.2	3026.3	1958.5	1151.3	802.7	708.2	683.4	677.0	678.8
20°	5341.6	4934.3	3829.9	2528.2	1349.4	774.2	659.6	632.0	622.9	614.6	616.4
22.5°	5316.9	4842.6	3523.5	2023.6	910.0	628.4	594.4	567.8	548.6	538.5	540.3
25°	5286.6	4746.3	3210.7	1507.2	664.2	560.5	528.4	490.8	467.8	449.5	450.4
27.5°	5238.0	4628.0	2887.8	1097.1	557.7	501.8	458.7	417.4	378.9	357.8	357.8
30°	5170.1	4494.0	2529.1	785.2	499.9	444.0	391.7	340.3	299.1	279.8	278.0
32.5°	5094.9	4354.6	2166.7	595.4	454.1	389.9	330.2	276.1	239.4	223.8	222.9
35°	5030.7	4204.1	1805.3	499.0	408.2	337.6	272.4	226.6	197.2	184.4	183.5
37.5°	4989.4	4053.7	1453.1	445.8	366.9	289.0	228.4	187.1	166.0	155.9	155.0
40°	4983.0	3941.8	1131.1	405.5	328.4	245.8	190.8	158.7	139.4	128.4	127.5
42.5°	5066.4	3877.6	867.8	371.5	289.0	208.2	162.4	135.8	115.6	104.6	103.7
45°	5285.7	3897.8	667.8	341.2	249.5	176.1	137.6	112.8	94.5	86.2	84.4
47.5°	5685.6	4037.2	531.1	311.0	211.9	149.5	117.4	93.6	78.0	69.7	68.8
50°	6397.5	4364.7	444.0	278.0	177.0	127.5	97.2	76.1	63.3	56.0	55.0
52.5°	7342.3	4948.1	396.3	245.8	146.8	108.2	79.8	60.5	49.5	44.0	43.1
55°	8384.4	5654.4	365.1	211.0	120.2	89.9	63.3	47.7	38.5	33.9	32.1
57.5°	9401.8	6266.3	335.7	177.0	100.0	73.4	50.5	37.6	30.3	25.7	24.8
60°	10336.5	6828.6	301.8	142.2	81.6	57.8	39.4	29.4	23.9	19.3	19.3
62.5°	11337.3	7263.5	255.0	111.0	67.0	44.0	32.1	26.6	19.3	16.5	15.6
65°	12397.8	7586.4	200.0	86.2	52.3	33.0	26.6	27.5	15.6	11.9	11.0
67.5°	13181.2	7522.1	147.7	67.9	40.4	25.7	25.7	29.4	13.8	9.2	8.3
69°	13008.7	7000.2	123.8	58.7	34.9	22.0	23.9	29.4	12.8	8.3	7.3
70°	12508.8	6422.3	109.2	52.3	31.2	20.2	22.9	28.4	11.9	8.3	7.3
72.5°	10417.2	4837.1	85.3	39.4	24.8	16.5	19.3	24.8	11.9	8.3	6.4
75°	7835.9	3096.0	65.1	28.4	18.3	12.8	14.7	18.3	11.9	7.3	6.4
77.5°	4263.8	1116.4	46.8	19.3	12.8	10.1	10.1	13.8	11.0	5.5	3.7
80°	1096.2	280.7	29.4	12.8	10.1	7.3	6.4	9.2	6.4	0.9	0.0
82.5°	270.6	63.3	15.6	9.2	7.3	2.8	2.8	4.6	2.8	0.0	0.0
85°	148.6	31.2	10.1	6.4	3.7	0.0	0.0	0.9	0.0	0.0	0.0
87.5°	76.1	9.2	2.8	1.8	0.9	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)