

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: P323328

Luminaire Tested: **GAN-SA4C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323328
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-SA4C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 17372 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

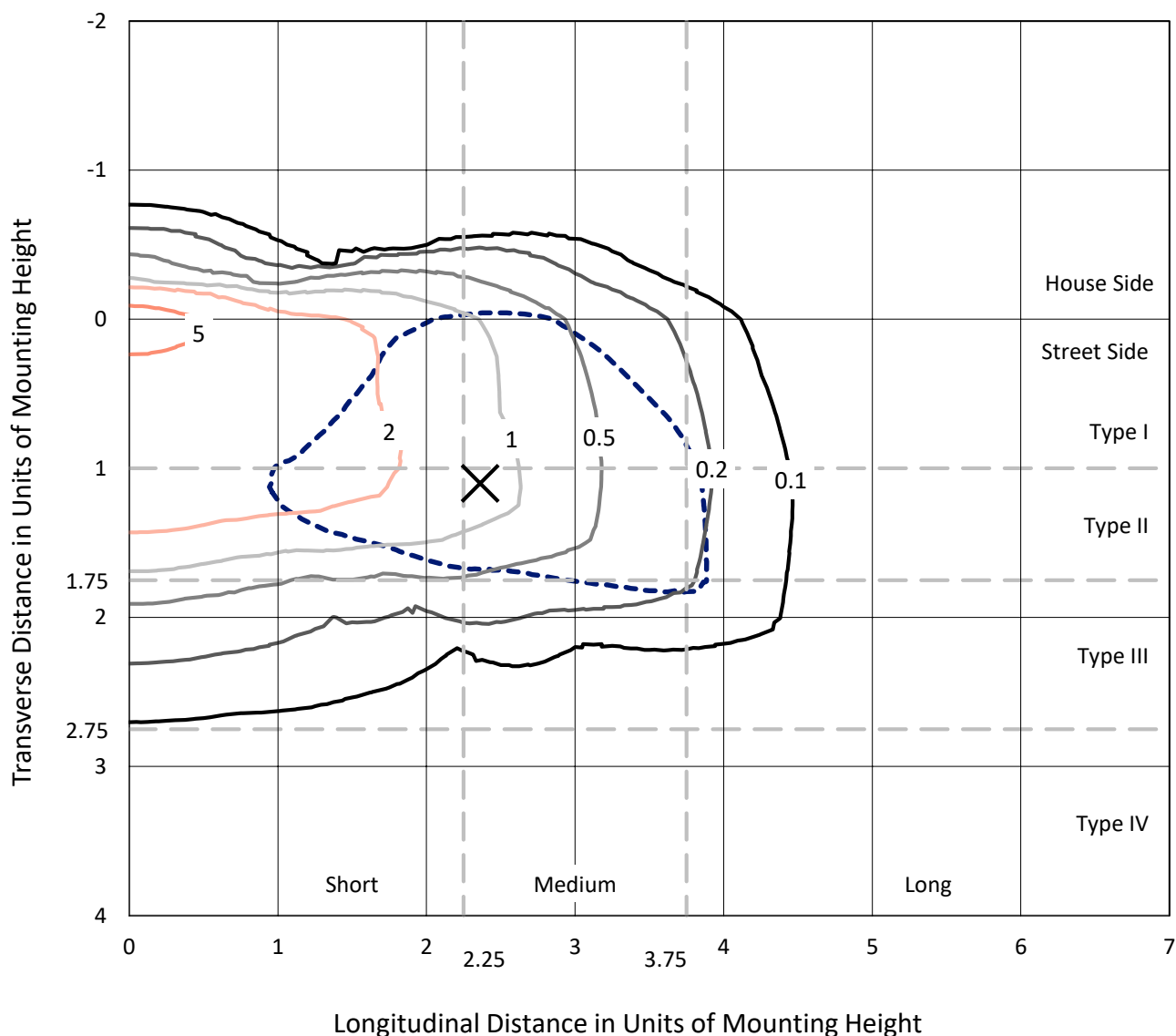
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

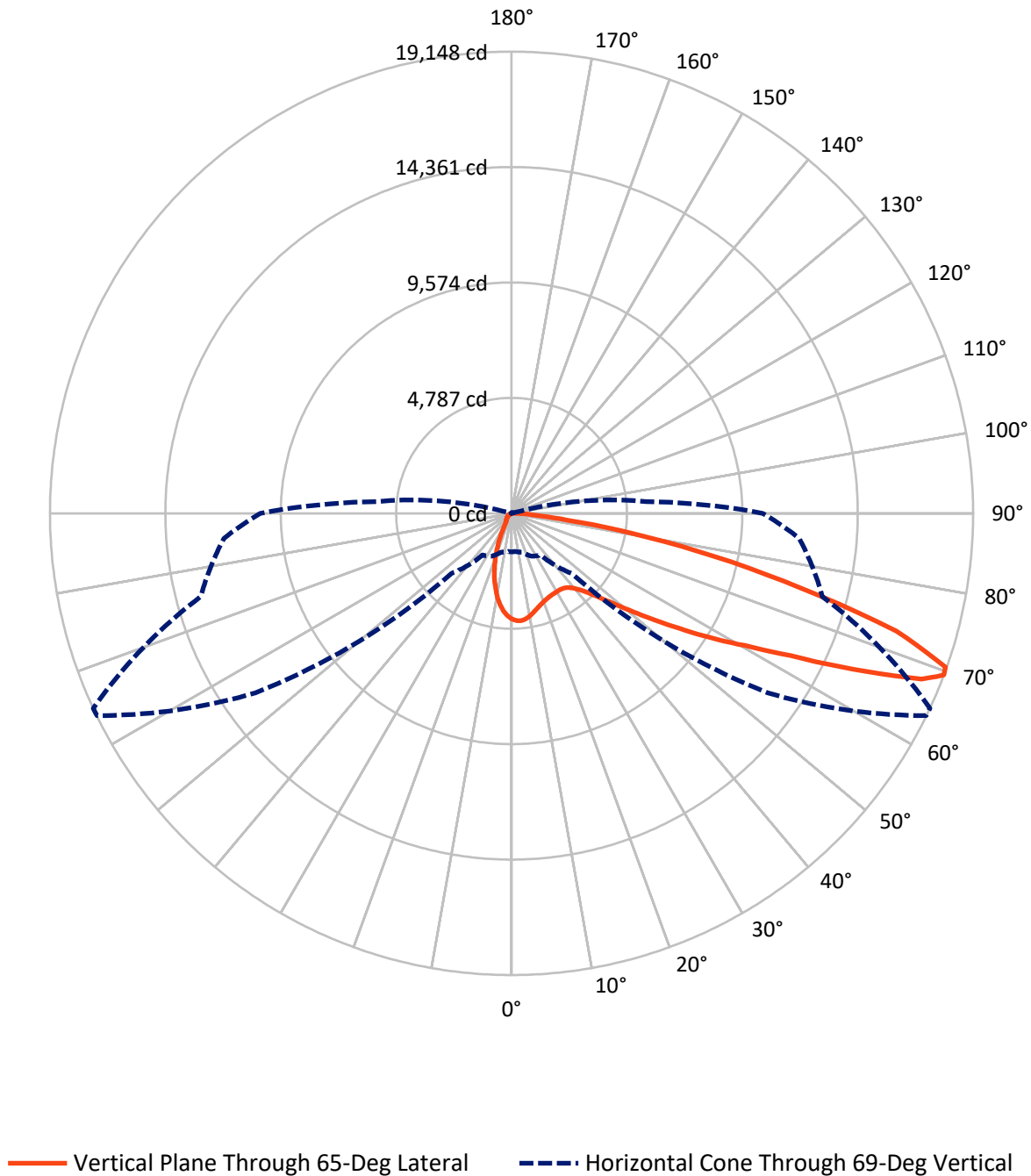
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2047.7	0.0	2047.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15324.2	0.0	15324.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	17372.0	0.0	17372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.1	2.1
10°-20°	803.6	4.6
20°-30°	1113.0	6.4
30°-40°	1551.8	8.9
40°-50°	2412.1	13.9
50°-60°	3872.3	22.3
60°-70°	4380.3	25.2
70°-80°	2572.6	14.8
80°-90°	299.3	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°	17372.0	100.0
0°-180°	17372.0	100.0

Coefficient of Utilization



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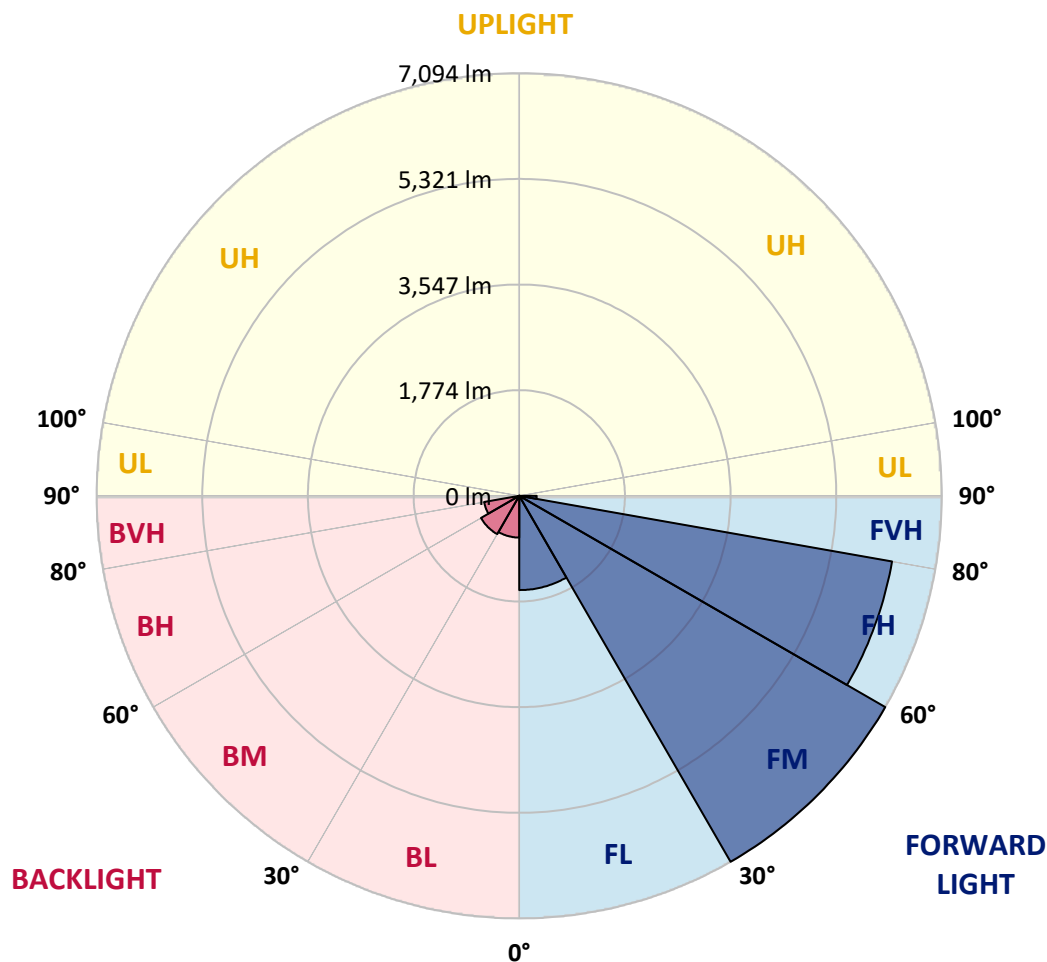
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1583.0	9.1			
FM	(30°-60°)	7094.2	40.8			
FH	(60°-80°)	6354.5	36.6			G3/7500
FVH	(80°-90°)	292.5	1.7			G3/500
BL	(0°-30°)	700.7	4.0	B2/1000		
BM	(30°-60°)	742.1	4.3	B1/1000		
BH	(60°-80°)	598.3	3.4	B2/1000		G2/1000
BVH	(80°-90°)	6.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9
2.5°	4428.9	4417.9	4426.7	4445.8	4455.4	4455.4	4462.7	4453.9	4456.8	4435.5	4404.6
5°	4151.8	4134.9	4159.1	4212.8	4278.9	4335.5	4419.3	4463.4	4467.9	4468.6	4432.6
7.5°	3853.3	3837.9	3873.9	3937.1	4022.4	4127.5	4273.8	4401.7	4409.0	4478.1	4451.7
10°	3610.7	3599.7	3641.6	3709.2	3809.2	3926.8	4106.2	4284.1	4305.4	4458.3	4448.7
12.5°	3418.2	3409.3	3449.0	3526.9	3629.1	3759.2	3946.7	4153.2	4181.9	4413.5	4434.0
15°	3277.7	3276.3	3309.4	3384.3	3497.5	3618.8	3810.7	4031.9	4065.0	4364.9	4431.8
17.5°	3204.2	3206.4	3230.7	3294.7	3391.7	3512.2	3696.0	3929.8	3965.8	4321.6	4442.9
20°	3196.9	3199.1	3212.3	3248.3	3327.0	3433.6	3602.7	3843.8	3881.3	4289.2	4460.5
22.5°	3261.6	3260.1	3263.8	3260.1	3304.2	3385.1	3540.9	3777.6	3821.0	4267.9	4474.5
25°	3385.8	3383.6	3382.1	3354.9	3325.5	3368.9	3515.2	3740.1	3781.3	4252.5	4482.6
27.5°	3558.6	3557.1	3554.9	3510.0	3421.8	3394.6	3518.1	3726.2	3760.7	4240.0	4481.1
30°	3785.7	3796.0	3793.0	3730.6	3593.1	3473.3	3549.0	3718.8	3748.9	4215.7	4465.6
32.5°	4052.5	4073.1	4089.3	4022.4	3850.4	3629.1	3620.3	3726.9	3748.9	4197.3	4437.7
35°	4329.7	4356.1	4415.7	4392.1	4165.7	3863.6	3743.1	3775.4	3793.8	4207.6	4424.5
37.5°	4602.4	4634.0	4763.4	4831.7	4578.9	4173.8	3934.2	3895.2	3904.8	4270.1	4439.2
40°	4919.2	4967.0	5163.2	5273.5	5072.1	4589.1	4220.1	4101.0	4104.7	4407.6	4507.5
42.5°	5335.3	5384.5	5596.9	5769.7	5627.8	5114.0	4608.3	4415.7	4412.0	4664.9	4668.5
45°	5842.5	5893.9	6113.7	6305.6	6241.6	5735.9	5105.2	4875.1	4870.7	5070.6	4973.6
47.5°	6417.3	6468.0	6664.3	6862.0	6931.1	6462.1	5738.1	5502.1	5491.8	5634.4	5444.8
50°	6910.5	6943.6	7124.5	7390.6	7702.2	7354.5	6525.4	6298.2	6287.2	6383.5	6136.5
52.5°	7089.9	7109.0	7292.8	7665.5	8443.2	8563.0	7559.6	7267.1	7259.0	7300.9	7057.6
55°	6726.8	6761.3	6987.0	7539.8	8844.6	9928.8	8865.1	8466.7	8405.7	8315.3	8020.5
57.5°	5737.3	5792.5	6035.1	6770.1	8657.1	11012.3	10783.7	9823.7	9734.0	9181.2	8803.4
60°	4298.8	4366.4	4567.8	5361.0	7656.7	11398.2	12880.2	11335.8	11133.6	9870.7	9523.0
62.5°	2949.9	2983.7	3120.4	3637.2	5638.8	10766.1	14634.1	13360.9	12991.9	10620.5	10301.5
65°	2253.0	2264.8	2320.7	2498.6	3357.9	8745.3	15331.7	16033.0	15586.8	11517.3	11109.4
67.5°	1815.7	1806.1	1883.3	2137.6	2248.6	5335.3	14518.0	18560.9	18352.2	12716.3	11922.4
69°	1601.0	1587.8	1666.4	1961.9	2111.9	3526.9	12978.7	19135.0	19148.3	13349.2	11978.2
70°	1440.8	1449.6	1527.5	1857.6	2065.6	2768.3	11508.5	18988.7	19093.1	13585.9	11643.0
72.5°	962.2	985.8	1142.3	1542.2	1986.2	2095.0	6948.8	16294.7	16696.0	13052.9	9989.1
75°	542.5	560.1	746.1	1162.9	1871.5	1995.0	3670.3	12004.7	12392.8	10915.3	7703.0
77.5°	266.1	275.7	421.9	750.5	1565.0	1900.9	2081.8	8154.3	8597.6	7124.5	4356.9
80°	112.5	117.6	211.0	463.1	1118.8	1814.2	1545.9	5018.4	5073.6	2791.1	1160.7
82.5°	43.4	44.8	88.9	288.9	710.8	1414.3	1293.0	2379.5	2322.1	525.6	264.6
85°	5.1	5.9	32.3	173.5	395.5	727.7	1050.4	1025.4	949.0	104.4	136.0
87.5°	0.0	0.0	2.2	52.9	117.6	341.1	546.2	425.6	383.7	33.8	70.6
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°	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9	4389.9
2.5°	4378.9	4371.6	4331.9	4274.5	4220.1	4152.5	4087.8	4048.9	4018.0	3997.4	4021.7
5°	4390.7	4358.3	4237.8	4083.4	3932.0	3761.4	3602.7	3468.1	3415.2	3356.4	3382.9
7.5°	4387.0	4326.0	4109.1	3834.2	3556.3	3268.9	2996.9	2787.4	2678.7	2572.1	2599.3
10°	4368.6	4265.7	3937.1	3529.9	3113.8	2700.7	2314.8	2021.5	1857.6	1709.1	1730.4
12.5°	4328.2	4184.8	3734.2	3181.5	2625.0	2080.3	1628.2	1252.6	1051.2	962.2	973.3
15°	4303.9	4106.2	3519.6	2828.6	2103.1	1448.9	995.3	740.2	648.3	618.9	622.6
17.5°	4292.2	4030.5	3297.6	2425.0	1569.4	922.5	643.2	567.5	547.6	542.5	544.0
20°	4280.4	3954.0	3069.0	2025.9	1081.3	620.4	528.5	506.5	499.1	492.5	494.0
22.5°	4260.6	3880.5	2823.5	1621.6	729.2	503.5	476.3	455.0	439.6	431.5	433.0
25°	4236.3	3803.3	2572.8	1207.7	532.2	449.1	423.4	393.3	374.9	360.2	360.9
27.5°	4197.3	3708.5	2314.1	879.2	446.9	402.1	367.5	334.5	303.6	286.7	286.7
30°	4142.9	3601.2	2026.6	629.2	400.6	355.8	313.9	272.7	239.6	224.2	222.7
32.5°	4082.7	3489.5	1736.3	477.1	363.9	312.4	264.6	221.3	191.9	179.4	178.6
35°	4031.2	3368.9	1446.6	399.9	327.1	270.5	218.3	181.6	158.0	147.8	147.0
37.5°	3998.1	3248.3	1164.4	357.3	294.0	231.6	183.0	150.0	133.1	125.0	124.2
40°	3993.0	3158.7	906.4	324.9	263.2	197.0	152.9	127.2	111.7	102.9	102.2
42.5°	4059.9	3107.2	695.4	297.7	231.6	166.9	130.1	108.8	92.6	83.8	83.1
45°	4235.6	3123.4	535.1	273.5	199.9	141.1	110.3	90.4	75.7	69.1	67.6
47.5°	4556.1	3235.1	425.6	249.2	169.8	119.8	94.1	75.0	62.5	55.9	55.1
50°	5126.5	3497.5	355.8	222.7	141.9	102.2	77.9	61.0	50.7	44.8	44.1
52.5°	5883.6	3965.1	317.6	197.0	117.6	86.7	64.0	48.5	39.7	35.3	34.5
55°	6718.7	4531.1	292.6	169.1	96.3	72.0	50.7	38.2	30.9	27.2	25.7
57.5°	7533.9	5021.4	269.0	141.9	80.1	58.8	40.4	30.1	24.3	20.6	19.8
60°	8283.0	5472.0	241.8	113.9	65.4	46.3	31.6	23.5	19.1	15.4	15.4
62.5°	9084.9	5820.4	204.4	88.9	53.7	35.3	25.7	21.3	15.4	13.2	12.5
65°	9934.7	6079.2	160.2	69.1	41.9	26.5	21.3	22.1	12.5	9.6	8.8
67.5°	10562.5	6027.7	118.3	54.4	32.3	20.6	20.6	23.5	11.0	7.4	6.6
69°	10424.3	5609.4	99.2	47.0	27.9	17.6	19.1	23.5	10.3	6.6	5.9
70°	10023.6	5146.3	87.5	41.9	25.0	16.2	18.4	22.8	9.6	6.6	5.9
72.5°	8347.6	3876.1	68.4	31.6	19.8	13.2	15.4	19.8	9.6	6.6	5.1
75°	6279.1	2480.9	52.2	22.8	14.7	10.3	11.8	14.7	9.6	5.9	5.1
77.5°	3416.7	894.6	37.5	15.4	10.3	8.1	8.1	11.0	8.8	4.4	2.9
80°	878.4	224.9	23.5	10.3	8.1	5.9	5.1	7.4	5.1	0.7	0.0
82.5°	216.9	50.7	12.5	7.4	5.9	2.2	2.2	3.7	2.2	0.0	0.0
85°	119.1	25.0	8.1	5.1	2.9	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	61.0	7.4	2.2	1.5	0.7	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)