

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: P322053

Luminaire Tested: **GAN-SA9C-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33069 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

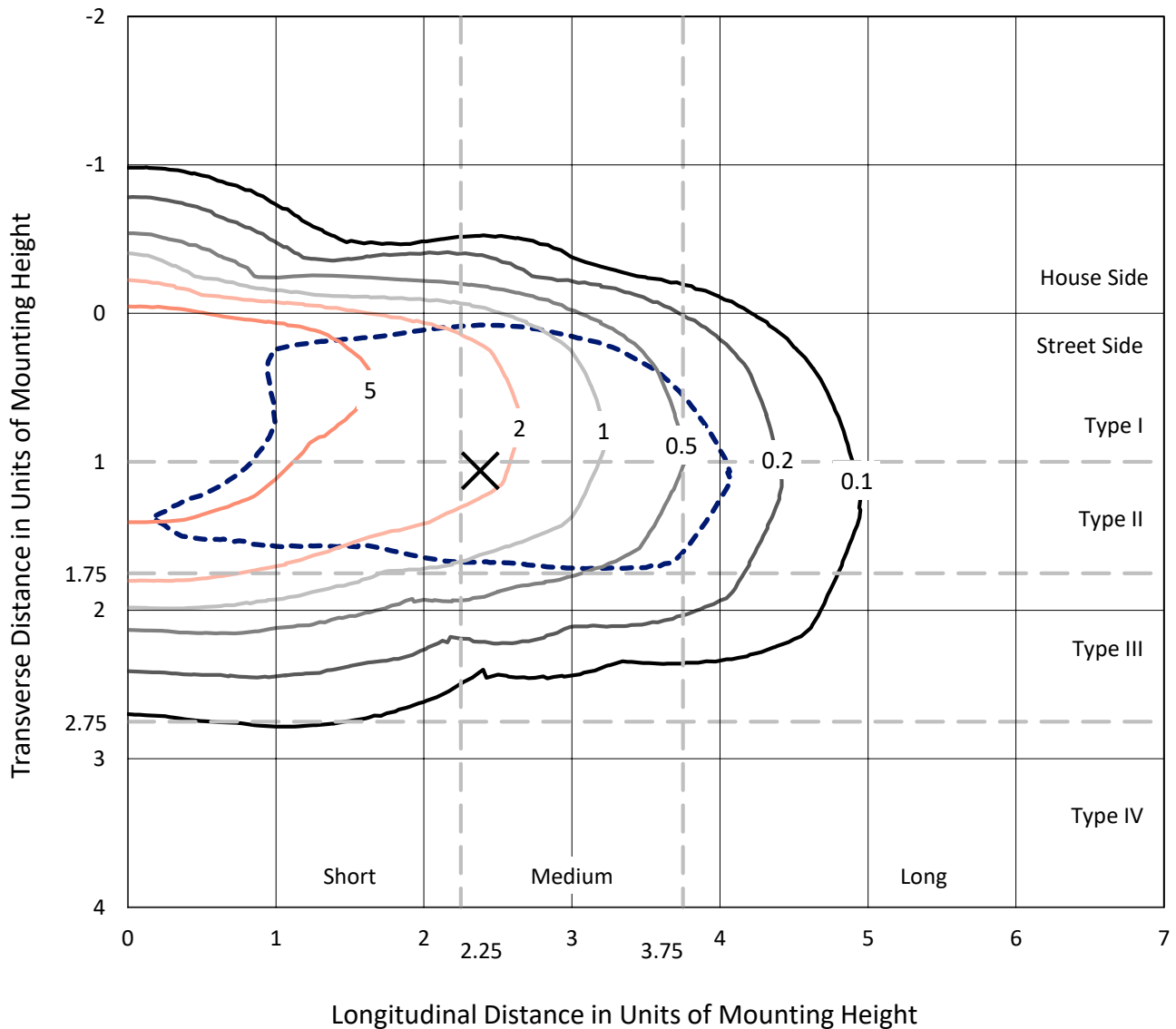
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

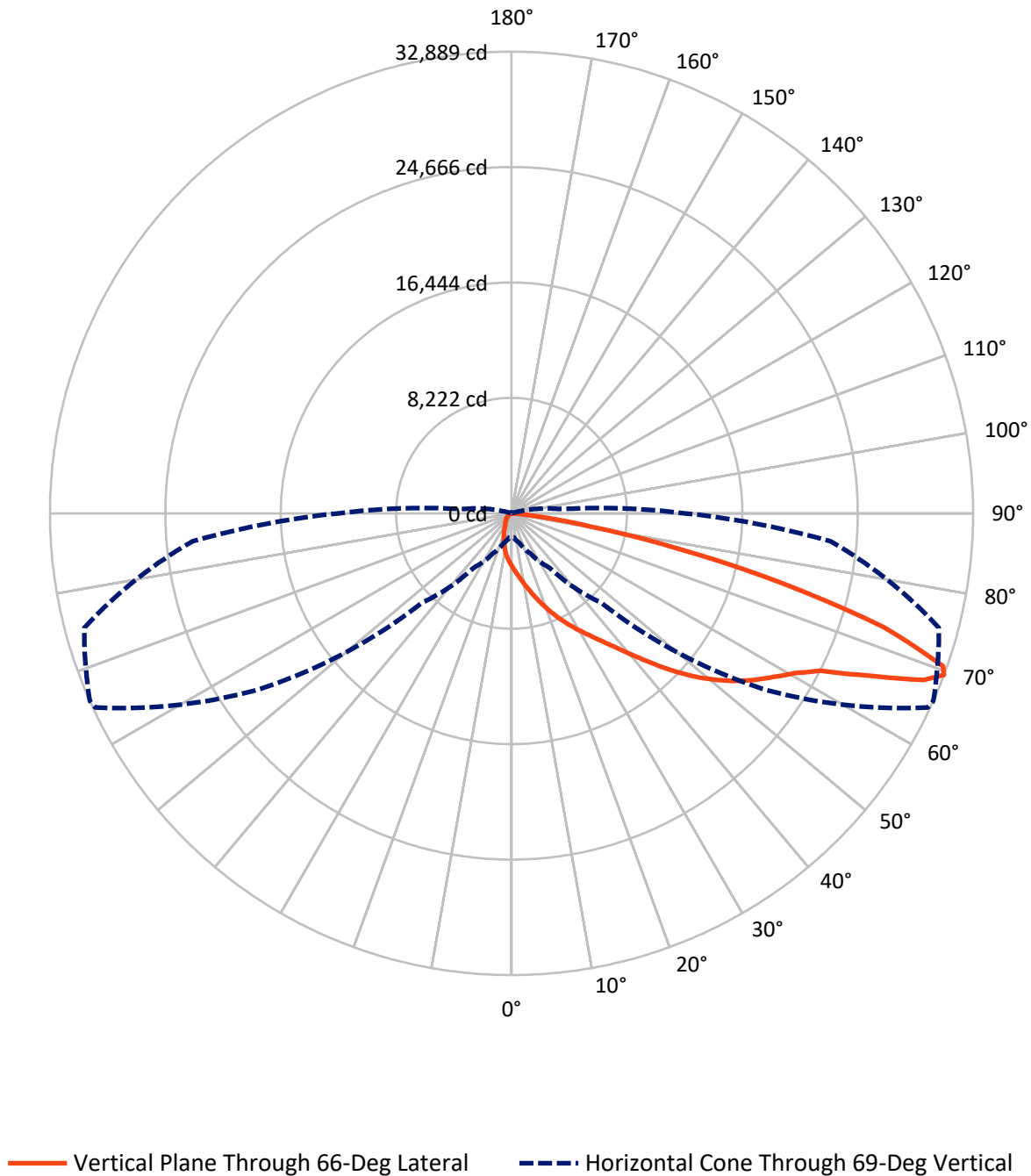
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.7	0.0	1983.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	31085.3	0.0	31085.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	33069.0	0.0	33069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.1
10°-20°	1082.7	3.3
20°-30°	1885.3	5.7
30°-40°	3307.8	10.0
40°-50°	5536.7	16.7
50°-60°	8138.5	24.6
60°-70°	8356.2	25.3
70°-80°	4125.2	12.5
80°-90°	272.8	0.8
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°	33069.0	100.0
0°-180°	33069.0	100.0

Coefficient of Utilization



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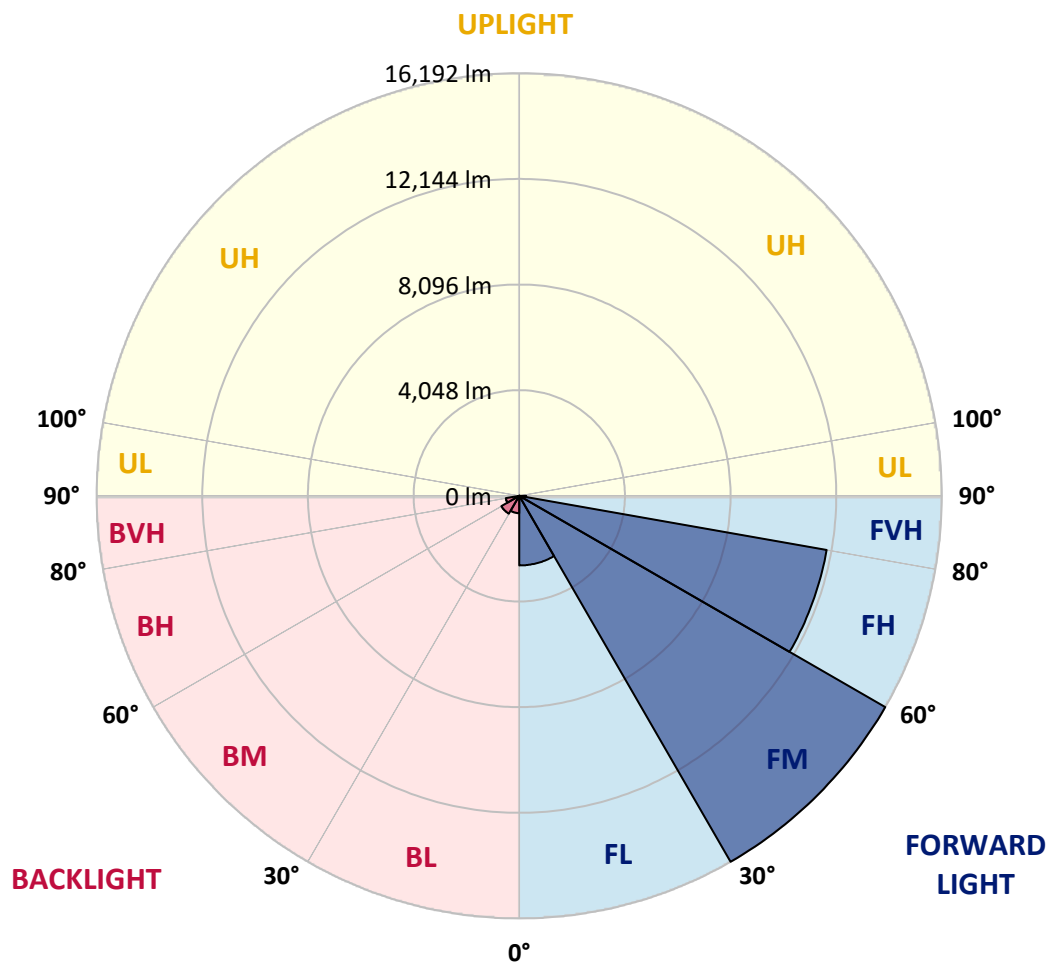
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.4	8.1			
FM	(30°-60°)	16192.2	49.0			
FH	(60°-80°)	11958.6	36.2			G4/12000
FVH	(80°-90°)	266.2	0.8			G3/500
BL	(0°-30°)	663.4	2.0	B2/1000		
BM	(30°-60°)	790.9	2.4	B1/1000		
BH	(60°-80°)	522.8	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4
2.5°	4429.3	4410.5	4402.6	4368.1	4308.4	4262.8	4174.9	4072.8	4053.9	3955.0	3834.0
5°	5004.2	4988.5	4977.5	4928.8	4867.5	4752.9	4592.7	4402.6	4366.5	4178.0	3936.1
7.5°	5404.7	5433.0	5433.0	5401.6	5324.6	5238.2	5041.9	4782.7	4737.2	4448.2	4072.8
10°	5638.8	5673.3	5700.0	5726.7	5715.7	5681.2	5495.8	5203.7	5148.7	4765.5	4231.4
12.5°	5660.7	5695.3	5770.7	5882.2	5990.6	6069.1	5952.9	5670.2	5607.3	5133.0	4419.9
15°	5538.2	5574.4	5690.6	5907.3	6169.6	6399.0	6436.7	6186.9	6122.5	5571.2	4655.5
17.5°	5324.6	5348.2	5514.7	5814.7	6226.2	6647.1	6874.9	6741.4	6681.7	6072.3	4917.8
20°	5166.0	5183.3	5329.3	5651.3	6191.6	6802.6	7289.5	7330.4	7267.6	6609.4	5202.1
22.5°	5437.7	5469.1	5473.8	5626.2	6097.4	6879.6	7653.9	7910.0	7862.8	7179.6	5481.7
25°	6180.6	6216.8	6097.4	6003.2	6177.5	6914.2	7966.5	8503.7	8466.0	7793.7	5762.8
27.5°	7162.3	7200.0	7046.1	6764.9	6596.9	7044.5	8244.5	9106.8	9105.3	8444.0	6066.0
30°	8126.7	8164.4	8007.3	7726.2	7339.8	7413.6	8484.8	9738.2	9747.7	9114.7	6388.0
32.5°	9138.2	9185.4	9023.6	8662.3	8258.7	8051.3	8822.5	10372.8	10426.2	9892.2	6750.8
35°	10288.0	10294.3	10066.5	9688.0	9223.1	8904.2	9364.4	11084.3	11211.5	10855.0	7211.0
37.5°	11415.7	11461.3	11274.4	10677.5	10250.3	9889.0	10170.2	11973.3	12154.0	12031.4	7812.6
40°	12251.3	12347.1	12320.4	11676.5	11271.2	11013.6	11170.7	13030.4	13259.7	13401.1	8571.2
42.5°	12775.9	12848.2	12970.7	12582.7	12215.2	12257.6	12351.9	14261.8	14544.5	14962.3	9443.0
45°	13377.5	13412.1	13514.2	13343.0	13094.8	13522.0	13605.3	15648.7	15945.6	16641.4	10410.5
47.5°	14112.6	14194.3	14222.5	14065.5	13952.4	14640.3	14813.1	16910.0	17326.2	18439.8	11434.6
50°	15048.7	15070.7	15119.4	15017.3	14904.2	15601.6	15896.9	18234.1	18612.6	20244.5	12444.5
52.5°	15964.4	16043.0	16212.6	16148.2	16102.7	16419.9	16862.9	19427.8	19850.3	21749.3	13452.9
55°	16228.3	16295.8	16881.7	17282.2	17652.9	17428.3	17786.4	20497.4	20954.5	23093.8	14423.6
57.5°	15174.4	15311.0	16325.7	17368.6	18906.3	18995.8	19055.5	21595.3	22005.3	24124.1	15433.5
60°	12510.5	12537.2	14202.1	15991.1	18699.0	20363.9	20908.9	22774.9	23118.9	25083.8	16643.0
62.5°	7957.1	8228.8	10055.5	12581.2	16506.3	20166.0	23150.3	24559.2	24684.9	26235.1	18377.0
65°	3790.1	3966.0	5282.2	7773.3	11956.0	17632.5	24697.4	27787.0	27843.5	28517.3	20693.8
67.5°	2098.4	2183.3	2810.0	4184.3	6989.5	12469.7	24072.3	31610.0	31663.4	30848.2	22726.2
69°	1641.4	1713.6	2206.8	3153.9	4738.8	8962.3	21783.8	32729.9	32888.5	31515.8	22798.5
70°	1393.2	1463.9	1900.5	2663.9	3810.5	6925.1	19390.1	32451.9	32620.0	31452.9	22259.7
72.5°	852.9	893.7	1266.0	1875.4	2553.9	3483.8	11957.6	27444.6	27728.9	28851.9	19130.9
75°	574.9	596.9	791.6	1294.2	1826.7	1793.7	6212.1	19344.5	19960.2	22443.5	14129.9
77.5°	411.5	431.9	530.9	837.2	1280.1	1184.3	2813.1	12022.0	12154.0	13460.8	7705.8
80°	234.0	252.9	375.4	497.9	868.6	790.1	1118.3	5742.4	5808.4	5772.3	2572.8
82.5°	122.5	138.2	205.8	328.3	557.6	516.8	464.9	1922.5	1931.9	1606.8	563.9
85°	23.6	28.3	102.1	224.6	287.4	224.6	190.1	450.8	460.2	406.8	139.8
87.5°	0.0	1.6	40.8	50.3	56.5	58.1	61.3	88.0	94.2	127.2	37.7
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°	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4
2.5°	3780.6	3724.1	3615.7	3490.1	3392.7	3296.9	3221.5	3142.9	3114.7	3100.5	3099.0
5°	3818.3	3699.0	3469.6	3234.0	3040.8	2858.6	2728.3	2604.2	2546.1	2519.4	2508.4
7.5°	3881.2	3689.5	3320.4	2960.7	2682.7	2455.0	2274.4	2139.3	2071.7	2043.5	2032.5
10°	3955.0	3677.0	3146.1	2671.7	2316.8	2081.2	1902.1	1768.6	1694.8	1663.4	1647.6
12.5°	4041.4	3655.0	2945.0	2379.6	2004.2	1768.6	1551.8	1386.9	1302.1	1266.0	1248.7
15°	4148.2	3633.0	2734.6	2104.7	1729.3	1441.9	1204.7	1093.2	1075.9	1069.6	1071.2
17.5°	4253.4	3598.4	2505.2	1833.0	1440.3	1126.2	1005.2	999.0	1002.1	1002.1	1002.1
20°	4347.7	3519.9	2255.5	1600.5	1165.4	950.3	925.1	914.1	906.3	900.0	892.1
22.5°	4421.5	3414.7	2015.2	1369.6	951.8	870.2	830.9	796.3	768.1	749.2	739.8
25°	4471.7	3274.9	1795.3	1148.2	856.0	791.6	720.9	662.8	618.8	592.1	581.2
27.5°	4509.4	3124.1	1599.0	961.3	790.1	700.5	607.9	538.7	493.2	469.6	460.2
30°	4536.1	2952.9	1426.2	845.0	716.2	604.7	505.8	438.2	405.2	392.7	386.4
32.5°	4561.3	2762.8	1262.8	790.1	647.1	516.8	424.1	372.3	351.8	336.1	331.4
35°	4624.1	2586.9	1107.3	731.9	576.4	441.4	364.4	326.7	306.3	296.9	293.7
37.5°	4773.3	2456.5	958.1	672.3	505.8	381.7	318.8	292.1	273.3	263.9	260.7
40°	5013.6	2390.6	832.5	607.9	436.7	336.1	289.0	263.9	243.5	229.3	226.2
42.5°	5367.0	2400.0	744.5	543.5	381.7	300.0	260.7	230.9	208.9	196.3	193.2
45°	5795.8	2469.1	683.2	480.6	336.1	271.7	229.3	197.9	177.5	166.5	163.4
47.5°	6260.7	2580.6	633.0	424.1	300.0	245.0	197.9	164.9	147.6	138.2	136.6
50°	6750.8	2689.0	581.2	369.1	268.6	218.3	166.5	136.6	122.5	114.7	111.5
52.5°	7247.1	2814.7	534.0	318.8	241.9	186.9	138.2	111.5	100.5	94.2	91.1
55°	7781.2	2908.9	488.5	279.6	215.2	158.6	114.7	92.7	83.2	75.4	73.8
57.5°	8409.4	3055.0	441.4	241.9	183.8	131.9	94.2	73.8	66.0	58.1	56.5
60°	9257.6	3226.2	391.1	213.6	150.8	108.4	77.0	59.7	50.3	44.0	42.4
62.5°	10375.9	3416.2	328.3	186.9	122.5	88.0	61.3	47.1	36.1	28.3	28.3
65°	11794.3	3725.7	268.6	157.1	100.5	72.3	47.1	34.6	20.4	12.6	12.6
67.5°	12622.0	3779.1	216.8	128.8	81.7	61.3	39.3	23.6	6.3	1.6	0.0
69°	12356.6	3469.6	183.8	109.9	70.7	58.1	36.1	17.3	3.1	0.0	0.0
70°	11857.1	3172.8	161.8	97.4	64.4	55.0	34.6	12.6	3.1	0.0	0.0
72.5°	9797.9	2258.6	122.5	72.3	47.1	48.7	31.4	7.9	3.1	0.0	0.0
75°	7137.2	1372.8	88.0	50.3	29.8	36.1	22.0	3.1	1.6	0.0	0.0
77.5°	3970.7	647.1	55.0	28.3	18.8	22.0	11.0	0.0	0.0	0.0	0.0
80°	1289.5	175.9	25.1	15.7	11.0	12.6	4.7	0.0	0.0	0.0	0.0
82.5°	238.7	50.3	14.1	7.9	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.8	20.4	7.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	6.3	1.6	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)