

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: P321283

Luminaire Tested: **GAN-SA9B-740-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41236 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

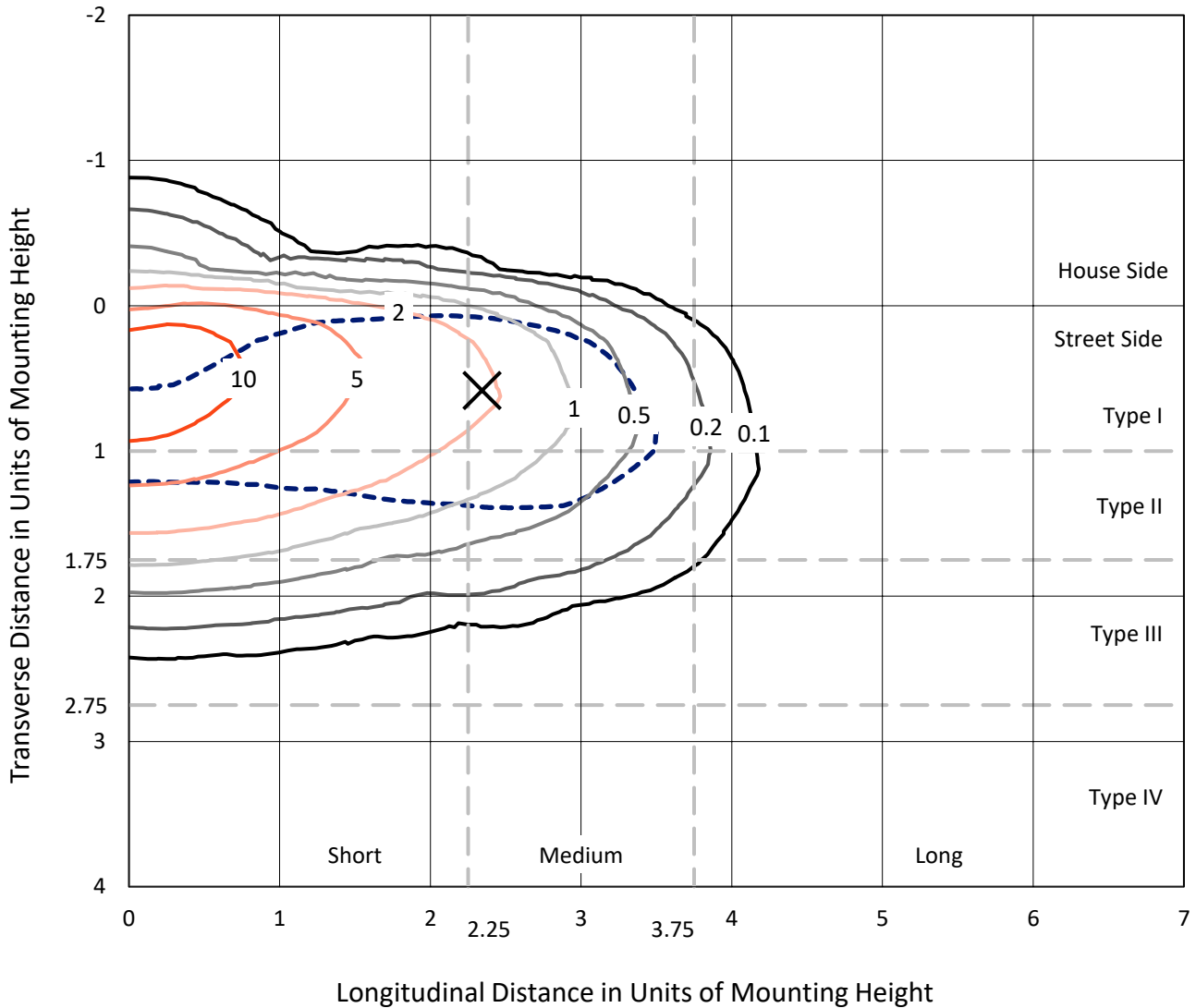
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

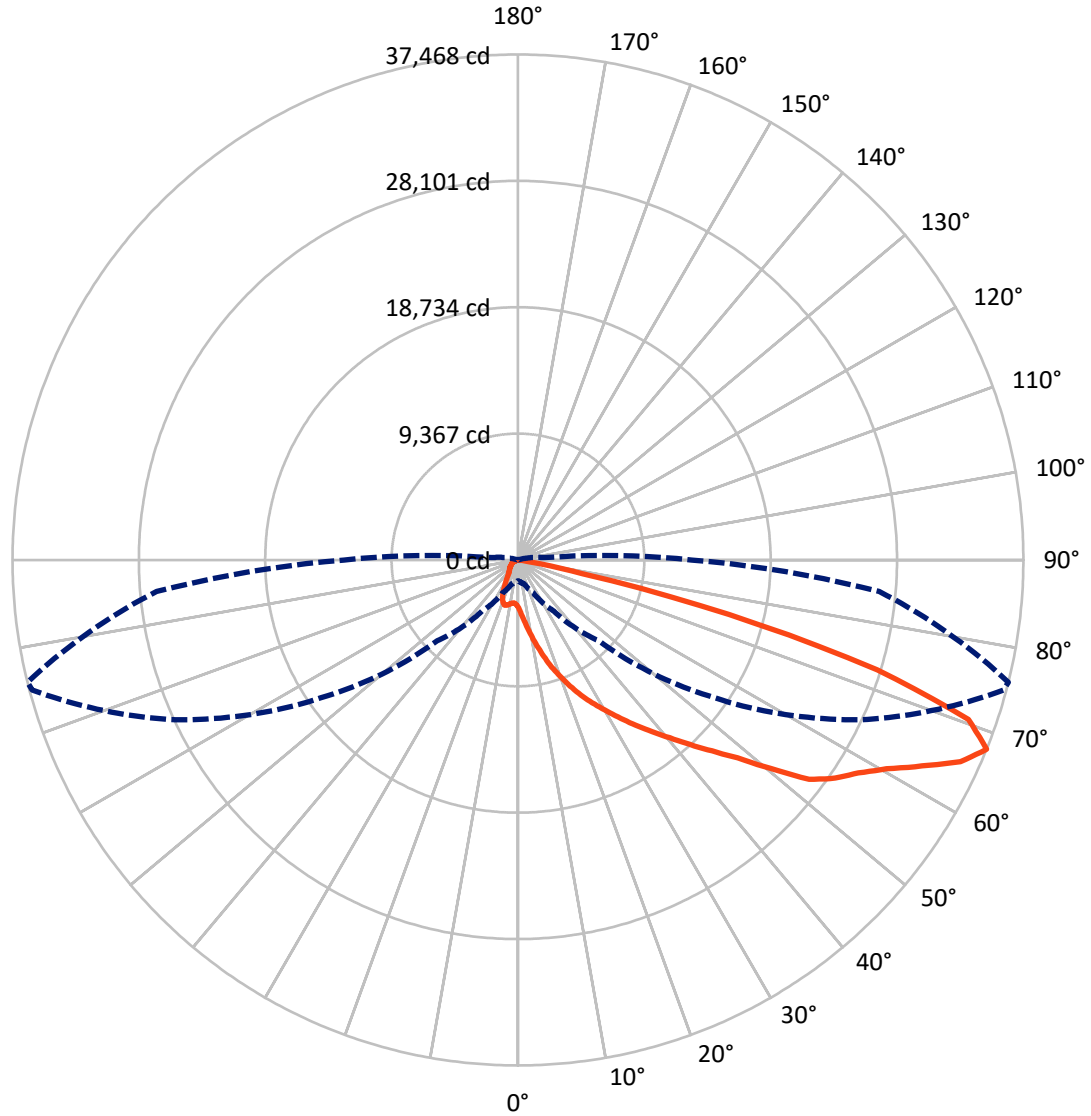
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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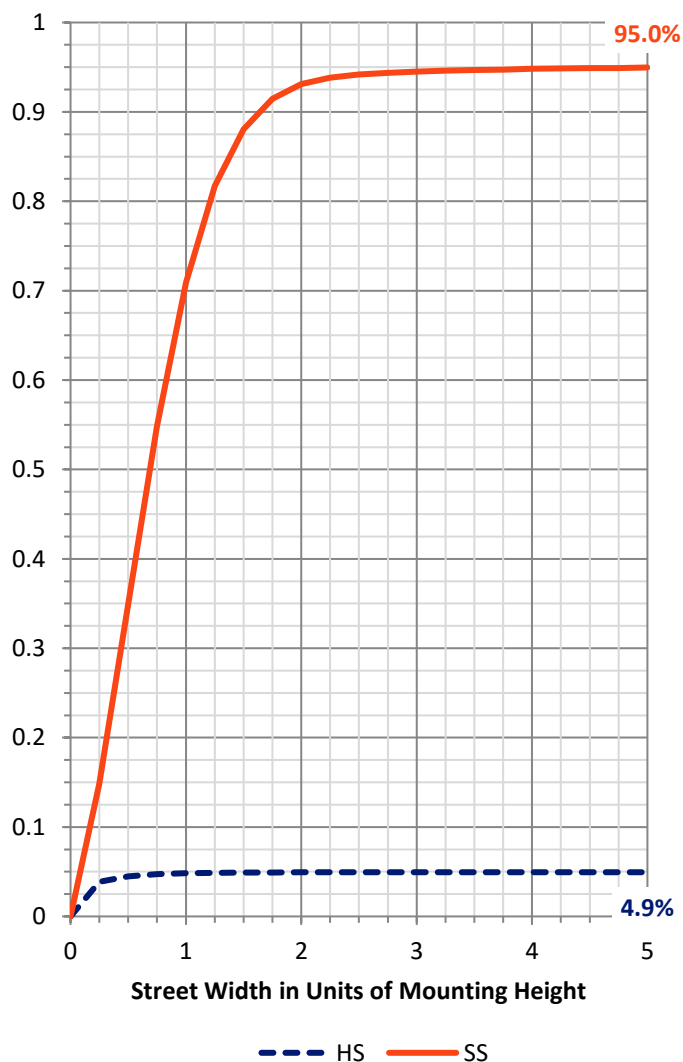
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2047.7	0.0	2047.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	39188.3	0.0	39188.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	41236.0	0.0	41236.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.0	1.1
10°-20°	1724.3	4.2
20°-30°	3508.4	8.5
30°-40°	6089.4	14.8
40°-50°	8603.5	20.9
50°-60°	9756.8	23.7
60°-70°	8092.3	19.6
70°-80°	2931.3	7.1
80°-90°	95.1	0.2
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°	41236.0	100.0
0°-180°	41236.0	100.0

**Coefficient of Utilization**

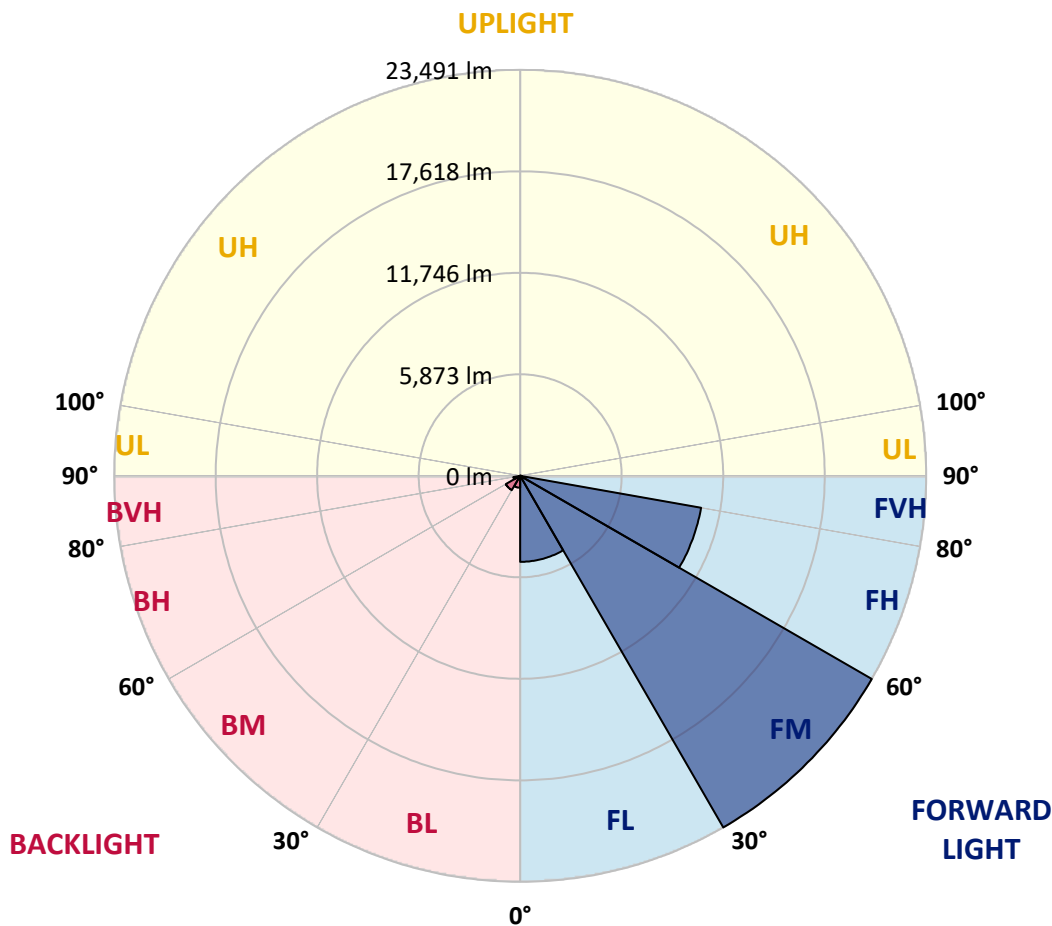


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4977.0	12.1			
FM (30°-60°)	23491.3	57.0			
FH (60°-80°)	10627.9	25.8			G4/12000
FVH (80°-90°)	92.1	0.2			G1/100
BL (0°-30°)	690.6	1.7	B2/1000		
BM (30°-60°)	958.4	2.3	B1/1000		
BH (60°-80°)	395.7	1.0	B1/500		G1/500
BVH (80°-90°)	3.0	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°	75°	76°	85°
0°	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0
2.5°	5221.7	5104.3	5131.4	5055.5	4918.2	4636.3	4396.0	4168.3	3902.7	3893.7	3675.1
5°	7041.2	6941.8	6929.2	6775.6	6526.2	6047.4	5581.3	5050.1	4457.4	4414.1	3949.7
7.5°	8692.6	8613.1	8584.2	8401.7	7937.4	7471.2	6864.1	6083.6	5156.7	5077.2	4320.1
10°	9961.0	9923.1	9930.3	9800.2	9402.7	8969.1	8172.3	7176.7	5949.9	5827.0	4764.6
12.5°	10922.2	10931.3	10996.3	10916.8	10694.6	10373.0	9522.0	8342.1	6828.0	6659.9	5272.3
15°	11628.7	11673.9	11793.1	11892.5	11876.2	11598.0	10817.4	9525.6	7760.3	7574.2	5837.8
17.5°	12085.8	12136.4	12309.9	12530.3	12732.7	12667.6	12067.8	10667.5	8703.5	8488.4	6443.1
20°	12486.9	12546.6	12732.7	13023.6	13401.2	13482.5	13088.6	11775.1	9644.8	9382.8	7068.3
22.5°	13356.0	13354.2	13468.1	13637.9	13997.4	14207.0	13957.7	12803.1	10575.3	10302.5	7706.1
25°	14928.0	14868.3	14828.6	14694.9	14774.4	14904.5	14765.3	13764.4	11511.3	11234.8	8352.9
27.5°	16796.2	16832.4	16510.7	16151.2	15872.9	15739.2	15511.6	14655.1	12411.1	12107.5	8985.3
30°	18767.5	18778.3	18398.9	17939.9	17327.4	16819.7	16425.8	15506.1	13336.2	13005.5	9599.6
32.5°	20545.4	20474.9	20099.1	19473.9	18700.6	18129.7	17311.2	16456.5	14315.4	13995.6	10282.6
35°	21954.7	21871.6	21414.5	20845.3	20043.1	19468.5	18483.8	17405.1	15345.3	15032.8	10967.4
37.5°	22984.6	22887.0	22417.2	21831.8	21139.8	20805.6	19844.3	18436.8	16469.2	16133.1	11688.3
40°	23342.3	23257.4	22962.9	22534.7	21978.2	21902.3	21288.0	19623.9	17692.4	17334.6	12505.0
42.5°	23129.1	23046.0	22941.2	22796.7	22565.4	22637.7	22650.3	20977.2	19051.1	18698.8	13406.6
45°	22283.5	22209.5	22317.9	22529.3	22816.5	23174.3	23893.4	22431.7	20568.9	20193.0	14449.2
47.5°	21038.6	20984.4	21284.4	21812.0	22652.1	23638.7	25029.9	23960.3	22272.7	21924.0	15750.1
50°	19267.9	19258.9	19858.8	20821.8	22113.7	23862.7	26204.3	25698.4	24639.6	24272.8	17558.7
52.5°	16510.7	16528.8	17708.7	19249.9	21168.7	23710.9	26959.6	27931.7	27393.2	27012.0	19125.2
55°	13885.4	13993.8	14830.4	17052.8	19719.7	23147.2	27219.8	28974.2	28912.8	28551.4	19996.1
57.5°	11314.3	11511.3	12317.1	14393.1	17603.9	21848.1	27077.0	29425.9	30043.8	29767.4	21145.2
60°	8528.2	8618.5	9547.2	11487.8	14888.2	19477.5	26041.7	29671.6	31590.5	31399.0	22812.9
62.5°	5425.9	5651.7	6475.6	8347.5	11592.6	16185.5	24296.3	29668.0	33525.6	33630.4	24964.9
65°	2858.4	3122.2	3559.4	5172.9	7966.3	12508.6	21671.0	29389.8	35899.7	36046.1	26647.0
67.5°	1541.2	1617.1	1848.4	2684.9	4620.0	8474.0	17813.5	28016.6	37274.7	37468.1	26881.9
70°	1127.5	1169.0	1255.7	1485.2	2325.4	4921.8	12998.3	24903.4	35502.2	35430.0	23884.4
72.5°	865.5	930.5	995.6	1087.7	1337.0	2627.1	8092.8	19501.0	28327.4	27850.4	17853.2
75°	683.0	693.8	786.0	869.1	1002.8	1496.0	3593.8	11357.7	17289.5	16160.2	9258.2
77.5°	545.7	552.9	607.1	679.4	805.8	982.9	1113.0	4468.3	5519.8	4925.4	2009.2
80°	323.4	341.5	451.7	524.0	668.5	619.7	406.5	970.3	861.9	780.5	337.9
82.5°	180.7	195.1	254.8	413.8	466.2	296.3	202.4	262.0	202.4	196.9	95.8
85°	0.0	9.0	164.4	256.6	189.7	65.0	84.9	86.7	59.6	56.0	37.9
87.5°	0.0	0.0	50.6	48.8	7.2	10.8	19.9	28.9	23.5	23.5	19.9
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°	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0	3498.0
2.5°	3566.7	3469.1	3284.8	3104.1	2952.3	2827.7	2715.7	2670.5	2634.3	2628.9	2600.0
5°	3725.7	3528.7	3176.4	2887.3	2694.0	2556.7	2439.2	2366.9	2310.9	2289.2	2269.4
7.5°	3966.0	3667.8	3161.9	2829.5	2598.2	2366.9	2150.1	1915.2	1768.9	1712.9	1680.3
10°	4258.7	3852.1	3216.1	2813.2	2408.5	1920.7	1561.1	1263.0	1141.9	1102.2	1091.3
12.5°	4600.2	4081.6	3310.1	2712.0	2003.8	1364.2	1076.9	975.7	948.6	935.9	935.9
15°	4992.2	4332.8	3377.0	2419.3	1481.6	1031.7	932.3	885.3	856.4	840.2	842.0
17.5°	5393.4	4578.5	3344.4	1994.7	1093.1	917.9	843.8	793.2	753.4	737.2	733.6
20°	5798.1	4806.1	3163.7	1485.2	925.1	832.9	749.8	693.8	654.1	637.8	634.2
22.5°	6217.3	4999.5	2845.7	1089.5	831.1	739.0	657.7	601.7	563.7	549.3	542.0
25°	6625.6	5156.7	2401.3	881.7	742.6	650.5	572.8	520.4	486.0	471.6	469.8
27.5°	7006.9	5256.0	1886.3	778.7	664.9	571.0	500.5	453.5	424.6	413.8	412.0
30°	7350.2	5265.1	1394.9	702.9	596.3	502.3	437.3	395.7	370.4	359.6	355.9
32.5°	7697.1	5189.2	1015.4	634.2	533.0	442.7	379.4	346.9	328.8	319.8	319.8
35°	8024.1	5013.9	791.4	574.6	471.6	384.9	334.3	310.8	299.9	290.9	290.9
37.5°	8343.9	4762.8	672.1	522.2	413.8	336.1	294.5	280.1	271.0	262.0	262.0
40°	8669.1	4446.6	610.7	473.4	366.8	298.1	262.0	249.3	240.3	233.1	231.3
42.5°	9068.4	4081.6	571.0	428.2	325.2	263.8	231.3	216.8	209.6	202.4	198.8
45°	9531.0	3767.2	538.4	383.0	290.9	234.9	200.6	186.1	175.3	166.2	164.4
47.5°	10197.7	3539.6	495.1	334.3	258.4	204.2	173.5	157.2	140.9	131.9	130.1
50°	11048.7	3351.7	439.1	290.9	225.9	173.5	144.5	124.7	110.2	101.2	101.2
52.5°	11471.5	3105.9	388.5	253.0	189.7	146.4	117.4	94.0	86.7	77.7	77.7
55°	11641.4	2918.0	337.9	215.0	157.2	121.1	92.1	72.3	66.9	61.4	59.6
57.5°	12118.4	2863.8	294.5	182.5	130.1	95.8	70.5	54.2	50.6	43.4	43.4
60°	12886.3	2890.9	254.8	155.4	104.8	74.1	52.4	41.6	37.9	30.7	30.7
62.5°	13715.6	2856.6	215.0	133.7	81.3	54.2	36.1	30.7	30.7	18.1	16.3
65°	13874.6	2544.0	184.3	110.2	63.2	39.8	23.5	19.9	27.1	3.6	0.0
67.5°	12877.2	1973.0	159.0	84.9	47.0	30.7	18.1	9.0	23.5	0.0	0.0
70°	10297.1	1253.9	128.3	61.4	36.1	25.3	14.5	3.6	18.1	0.0	0.0
72.5°	7281.5	728.1	101.2	43.4	30.7	19.9	10.8	0.0	10.8	0.0	0.0
75°	3682.3	388.5	63.2	32.5	23.5	14.5	7.2	0.0	1.8	0.0	0.0
77.5°	796.8	180.7	39.8	23.5	16.3	9.0	3.6	0.0	0.0	0.0	0.0
80°	173.5	79.5	25.3	14.5	9.0	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	63.2	41.6	12.6	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.3	21.7	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	7.2	1.8	1.8	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)