

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: P321340

Luminaire Tested: **GAN-SA6D-750-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321340  
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-SA6D-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1200mA 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: 37459 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

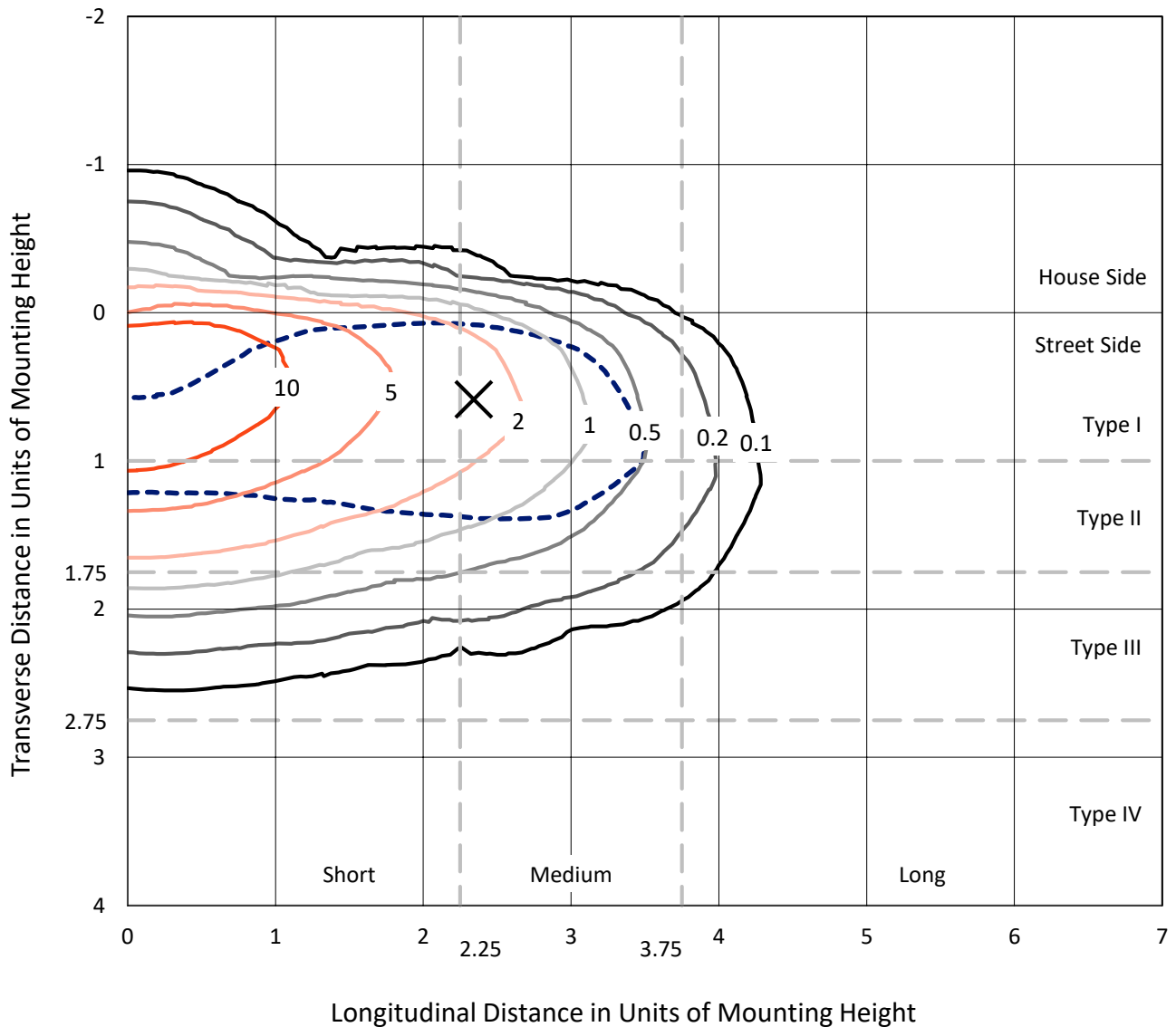
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

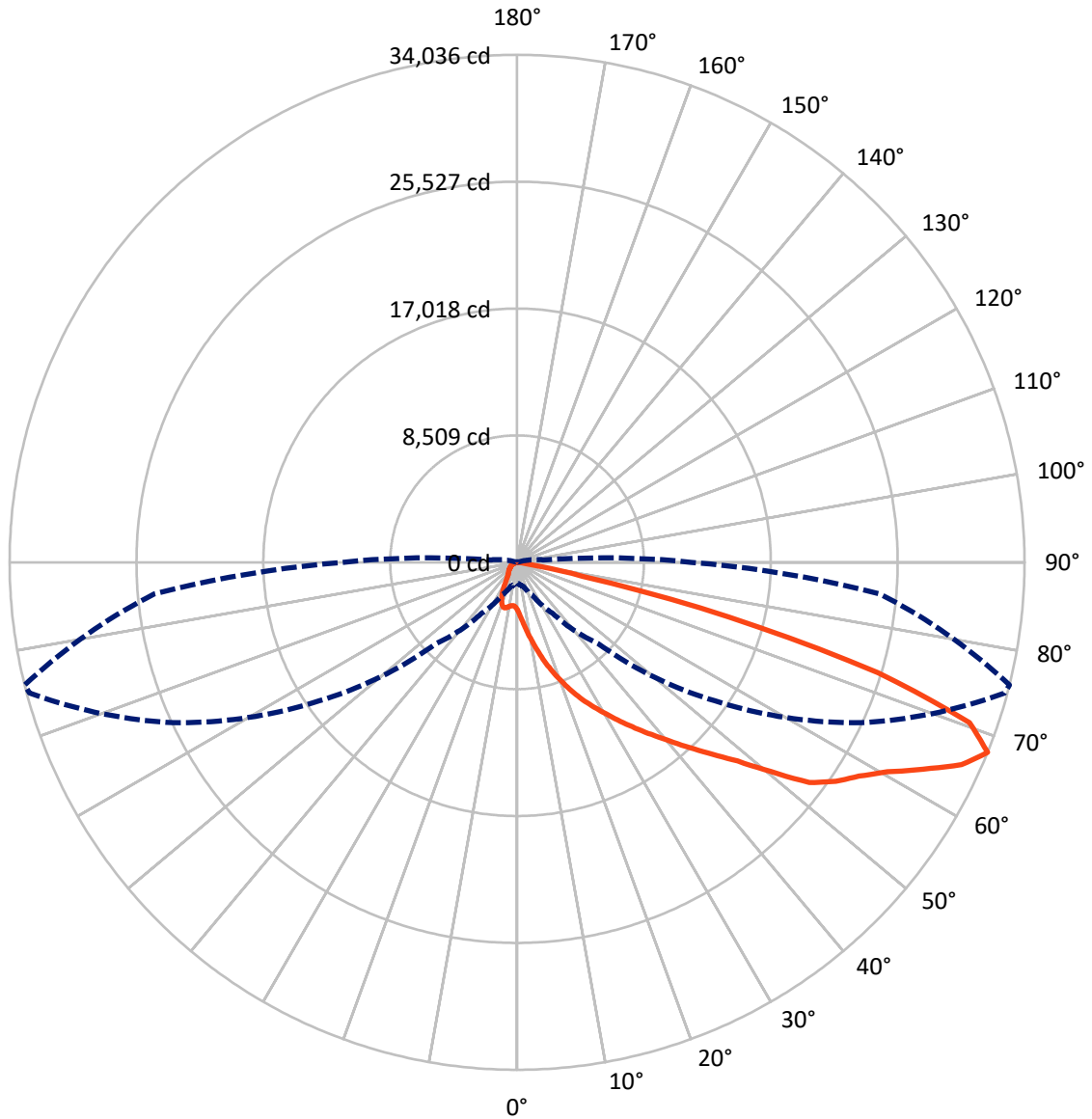
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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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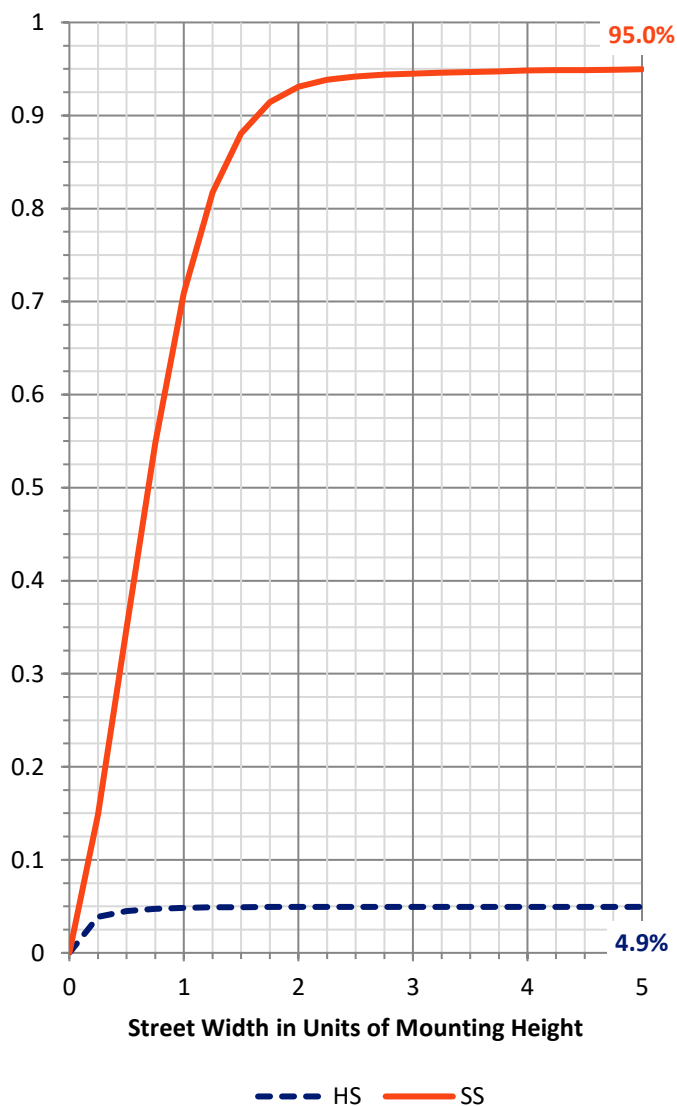
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1860.1	0.0	1860.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	35598.9	0.0	35598.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	37459.0	0.0	37459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.1	1.1
10°-20°	1566.4	4.2
20°-30°	3187.0	8.5
30°-40°	5531.6	14.8
40°-50°	7815.5	20.9
50°-60°	8863.1	23.7
60°-70°	7351.1	19.6
70°-80°	2662.8	7.1
80°-90°	86.4	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°	37459.0	100.0
0°-180°	37459.0	100.0

**Coefficient of Utilization**

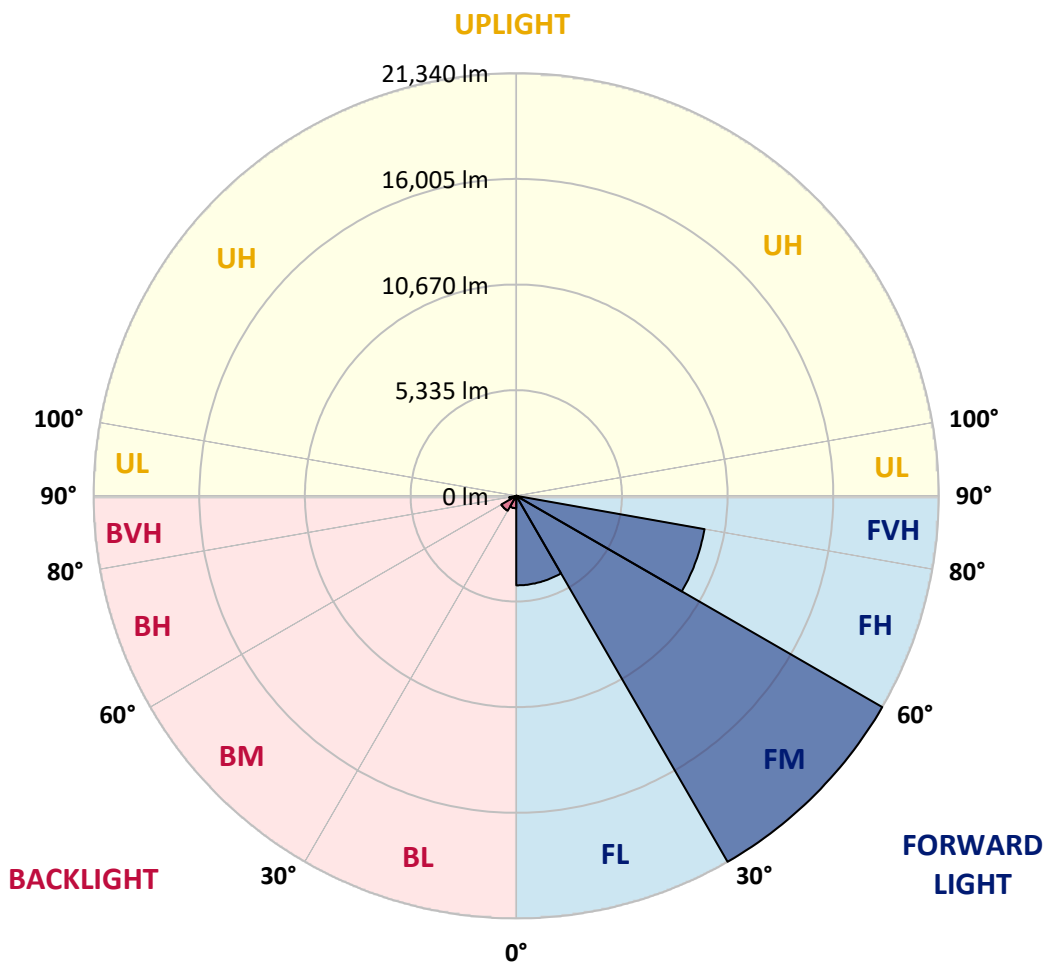


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4521.2	12.1			
FM (30°-60°)	21339.6	57.0			
FH (60°-80°)	9654.4	25.8			G4/12000
FVH (80°-90°)	83.6	0.2			G1/100
BL (0°-30°)	627.3	1.7	B2/1000		
BM (30°-60°)	870.6	2.3	B1/1000		
BH (60°-80°)	359.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6
2.5°	4743.4	4636.7	4661.4	4592.4	4467.7	4211.6	3993.3	3786.5	3545.3	3537.1	3338.5
5°	6396.2	6306.0	6294.5	6155.0	5928.5	5493.5	5070.1	4587.5	4049.2	4009.8	3587.9
7.5°	7896.4	7824.2	7797.9	7632.2	7210.3	6786.9	6235.4	5526.3	4684.3	4612.1	3924.4
10°	9048.6	9014.2	9020.7	8902.6	8541.5	8147.5	7423.7	6519.3	5404.9	5293.3	4328.2
12.5°	9921.8	9930.0	9989.1	9916.9	9715.0	9422.9	8649.8	7578.0	6202.6	6049.9	4789.4
15°	10563.6	10604.6	10712.9	10803.2	10788.4	10535.7	9826.6	8653.1	7049.5	6880.4	5303.1
17.5°	10978.8	11024.8	11182.4	11382.6	11566.4	11507.3	10962.4	9690.4	7906.3	7711.0	5853.0
20°	11343.2	11397.4	11566.4	11830.7	12173.7	12247.6	11889.8	10696.5	8761.4	8523.4	6420.9
22.5°	12132.7	12131.0	12234.4	12388.7	12715.4	12905.8	12679.2	11630.4	9606.7	9358.8	7000.3
25°	13560.6	13506.5	13470.4	13348.9	13421.1	13539.3	13412.9	12503.6	10456.9	10205.8	7587.9
27.5°	15257.8	15290.6	14998.4	14671.8	14419.1	14297.6	14090.8	13312.8	11274.3	10998.5	8162.3
30°	17048.5	17058.3	16713.6	16296.7	15740.3	15279.1	14921.3	14085.9	12114.6	11814.3	8720.4
32.5°	18663.5	18599.5	18258.1	17690.2	16987.7	16469.1	15725.5	14949.2	13004.2	12713.7	9340.8
35°	19943.8	19868.3	19453.0	18936.0	18207.2	17685.3	16790.8	15810.9	13939.8	13655.8	9962.9
37.5°	20879.3	20790.7	20363.9	19832.1	19203.5	18899.9	18026.7	16748.1	14960.7	14655.4	10617.7
40°	21204.3	21127.2	20859.6	20470.6	19965.1	19896.2	19338.1	17826.4	16071.9	15746.9	11359.6
42.5°	21010.6	20935.1	20839.9	20708.6	20498.5	20564.2	20575.7	19055.8	17306.1	16986.1	12178.6
45°	20242.5	20175.2	20273.7	20465.7	20726.7	21051.7	21704.9	20377.1	18684.9	18343.5	13125.7
47.5°	19111.6	19062.4	19334.8	19814.1	20577.3	21473.5	22737.3	21765.6	20232.6	19915.9	14307.4
50°	17503.1	17494.9	18039.8	18914.6	20088.2	21677.0	23804.2	23344.6	22382.8	22049.6	15950.4
52.5°	14998.4	15014.9	16086.6	17486.7	19229.8	21539.1	24490.2	25373.3	24884.2	24537.8	17373.4
55°	12613.6	12712.1	13472.0	15490.8	17913.4	21027.0	24726.6	26320.3	26264.5	25936.2	18164.6
57.5°	10278.0	10456.9	11188.9	13074.8	15991.4	19846.9	24596.9	26730.6	27292.0	27040.9	19208.4
60°	7747.1	7829.1	8672.8	10435.6	13524.5	17693.5	23656.4	26953.9	28697.0	28523.0	20723.4
62.5°	4928.9	5134.1	5882.5	7582.9	10530.8	14703.0	22070.9	26950.6	30454.8	30550.0	22678.2
65°	2596.6	2836.2	3233.4	4699.1	7236.6	11362.9	19686.1	26697.8	32611.5	32744.5	24206.3
67.5°	1400.1	1469.0	1679.1	2439.0	4196.9	7697.8	16181.8	25450.4	33860.6	34036.2	24419.7
70°	1024.2	1061.9	1140.7	1349.2	2112.4	4471.0	11807.7	22622.4	32250.4	32184.8	21696.7
72.5°	786.2	845.3	904.4	988.1	1214.6	2386.5	7351.5	17714.8	25732.7	25299.4	16217.9
75°	620.4	630.3	714.0	789.5	910.9	1359.0	3264.6	10317.4	15705.9	14680.0	8410.2
77.5°	495.7	502.2	551.5	617.1	732.0	892.9	1011.1	4059.0	5014.3	4474.3	1825.2
80°	293.8	310.2	410.3	476.0	607.3	563.0	369.3	881.4	782.9	709.1	306.9
82.5°	164.1	177.3	231.4	375.9	423.5	269.2	183.8	238.0	183.8	178.9	87.0
85°	0.0	8.2	149.4	233.1	172.3	59.1	77.1	78.8	54.2	50.9	34.5
87.5°	0.0	0.0	46.0	44.3	6.6	9.8	18.1	26.3	21.3	21.3	18.1
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°	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6	3177.6
2.5°	3240.0	3151.3	2983.9	2819.8	2681.9	2568.7	2466.9	2425.9	2393.1	2388.1	2361.9
5°	3384.4	3205.5	2885.5	2622.8	2447.2	2322.5	2215.8	2150.1	2099.3	2079.6	2061.5
7.5°	3602.7	3331.9	2872.3	2570.3	2360.2	2150.1	1953.2	1739.8	1606.9	1556.0	1526.4
10°	3868.6	3499.3	2921.6	2555.5	2187.9	1744.7	1418.1	1147.3	1037.3	1001.2	991.4
12.5°	4178.8	3707.8	3006.9	2463.6	1820.2	1239.2	978.2	886.3	861.7	850.2	850.2
15°	4535.0	3935.9	3067.6	2197.7	1345.9	937.2	846.9	804.2	778.0	763.2	764.9
17.5°	4899.4	4159.1	3038.1	1812.0	993.0	833.8	766.5	720.5	684.4	669.7	666.4
20°	5267.0	4365.9	2874.0	1349.2	840.4	756.7	681.2	630.3	594.2	579.4	576.1
22.5°	5647.8	4541.6	2585.1	989.7	755.0	671.3	597.4	546.6	512.1	499.0	492.4
25°	6018.7	4684.3	2181.3	801.0	674.6	590.9	520.3	472.7	441.5	428.4	426.7
27.5°	6365.1	4774.6	1713.5	707.4	604.0	518.7	454.6	412.0	385.7	375.9	374.2
30°	6676.9	4782.8	1267.1	638.5	541.6	456.3	397.2	359.5	336.5	326.6	323.3
32.5°	6992.1	4713.9	922.4	576.1	484.2	402.1	344.7	315.1	298.7	290.5	290.5
35°	7289.1	4554.7	718.9	521.9	428.4	349.6	303.6	282.3	272.5	264.3	264.3
37.5°	7579.6	4326.5	610.6	474.3	375.9	305.3	267.5	254.4	246.2	238.0	238.0
40°	7875.1	4039.3	554.8	430.0	333.2	270.8	238.0	226.5	218.3	211.7	210.1
42.5°	8237.8	3707.8	518.7	389.0	295.4	239.6	210.1	197.0	190.4	183.8	180.5
45°	8658.0	3422.2	489.1	348.0	264.3	213.4	182.2	169.1	159.2	151.0	149.4
47.5°	9263.6	3215.4	449.7	303.6	234.7	185.5	157.6	142.8	128.0	119.8	118.2
50°	10036.7	3044.7	398.8	264.3	205.2	157.6	131.3	113.3	100.1	91.9	91.9
52.5°	10420.8	2821.4	352.9	229.8	172.3	132.9	106.7	85.3	78.8	70.6	70.6
55°	10575.1	2650.7	306.9	195.3	142.8	110.0	83.7	65.7	60.7	55.8	54.2
57.5°	11008.4	2601.5	267.5	165.8	118.2	87.0	64.0	49.2	46.0	39.4	39.4
60°	11705.9	2626.1	231.4	141.2	95.2	67.3	47.6	37.8	34.5	27.9	27.9
62.5°	12459.3	2594.9	195.3	121.5	73.9	49.2	32.8	27.9	27.9	16.4	14.8
65°	12603.7	2311.0	167.4	100.1	57.4	36.1	21.3	18.1	24.6	3.3	0.0
67.5°	11697.7	1792.3	144.4	77.1	42.7	27.9	16.4	8.2	21.3	0.0	0.0
70°	9353.9	1139.1	116.5	55.8	32.8	23.0	13.1	3.3	16.4	0.0	0.0
72.5°	6614.5	661.5	91.9	39.4	27.9	18.1	9.8	0.0	9.8	0.0	0.0
75°	3345.0	352.9	57.4	29.5	21.3	13.1	6.6	0.0	1.6	0.0	0.0
77.5°	723.8	164.1	36.1	21.3	14.8	8.2	3.3	0.0	0.0	0.0	0.0
80°	157.6	72.2	23.0	13.1	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	37.8	11.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.2	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	1.6	1.6	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)