

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: P324799

Luminaire Tested: **GAN-SA5B-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324799  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23382 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

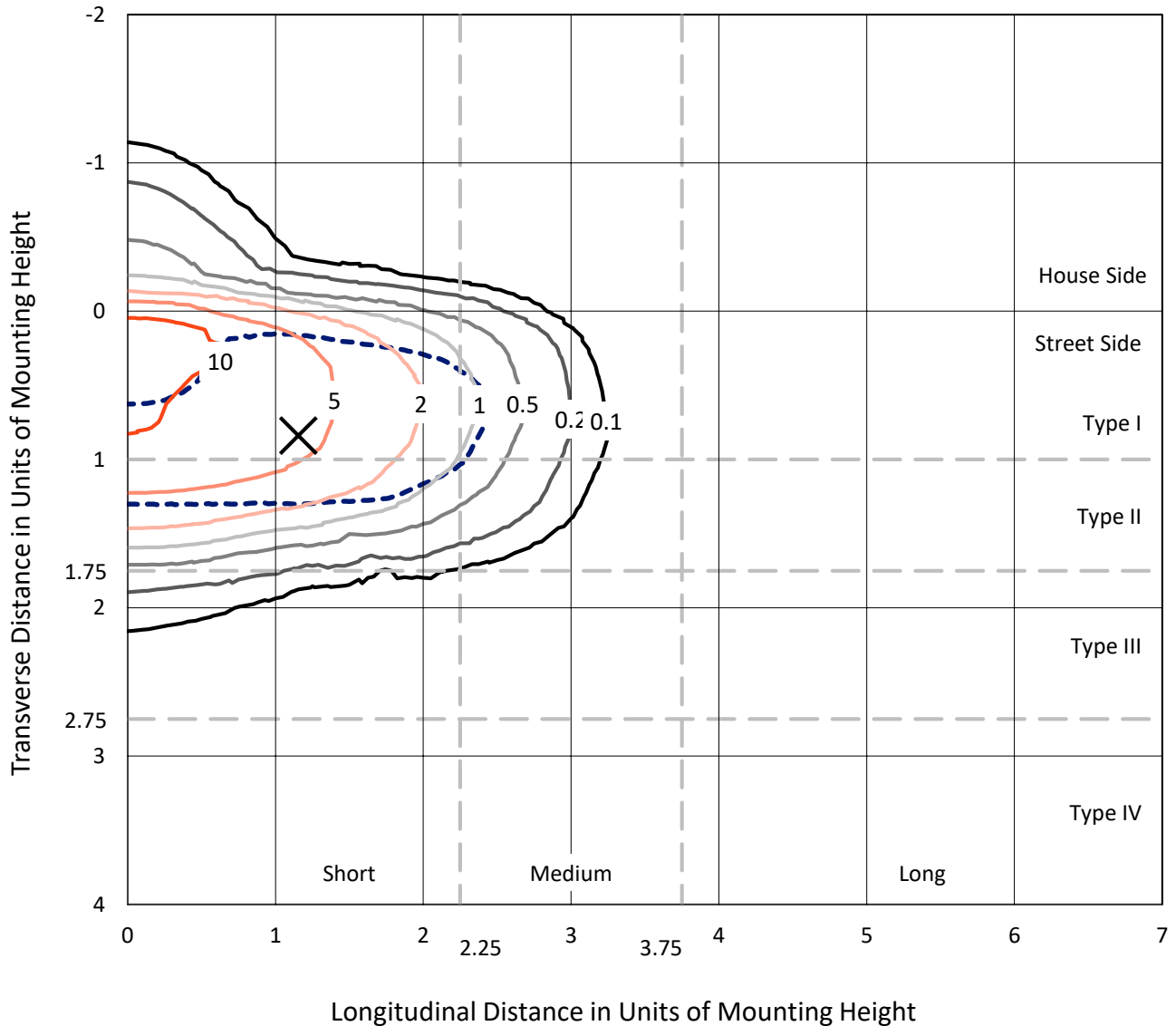
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

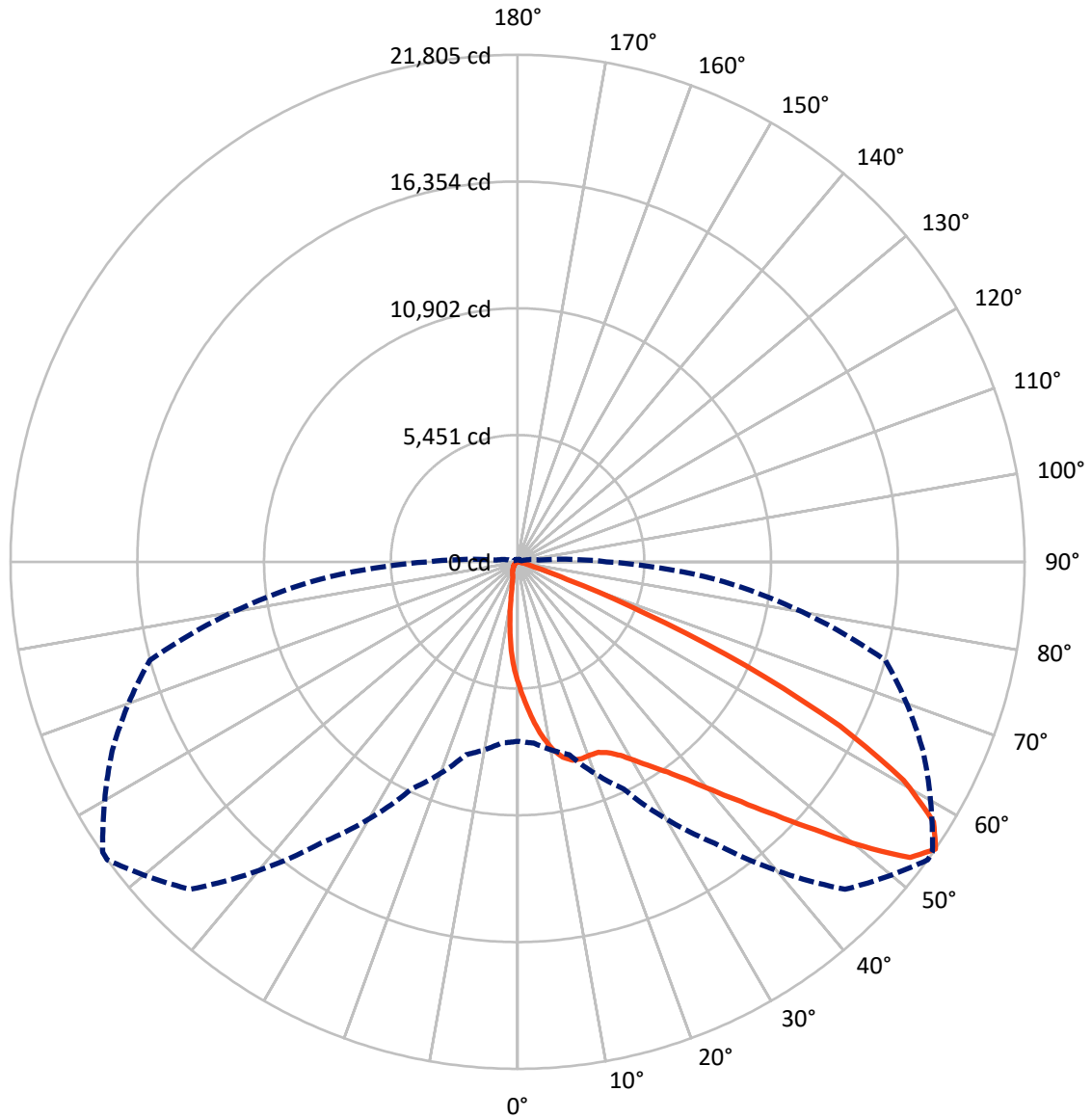
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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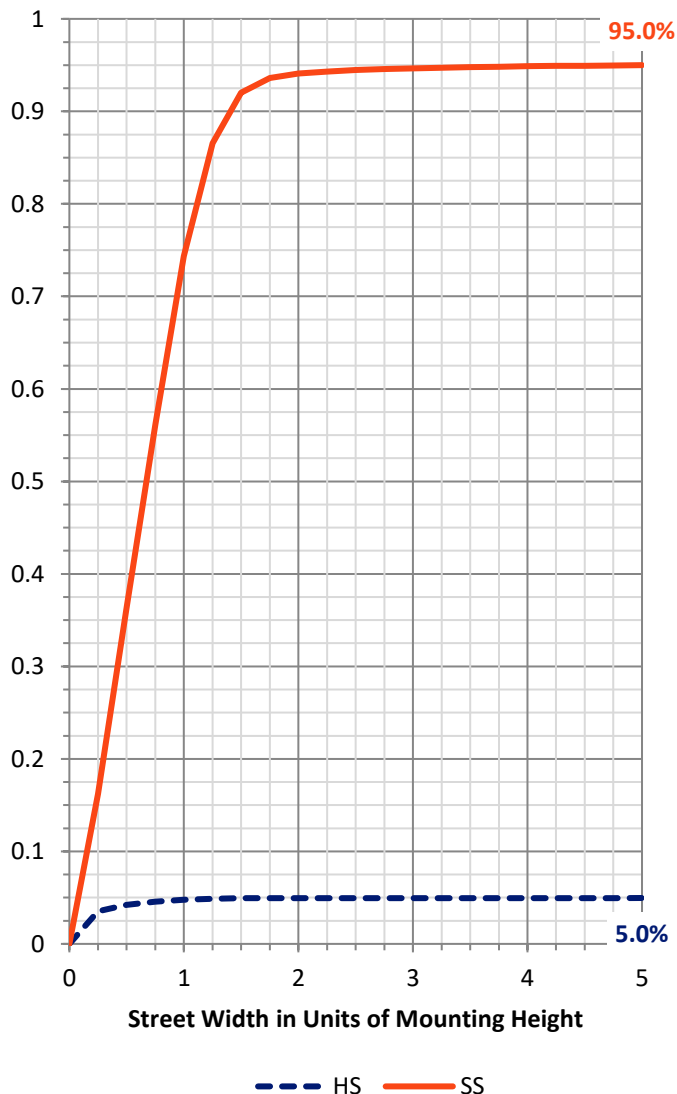
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1166.6	0.0	1166.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	22215.4	0.0	22215.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	23382.0	0.0	23382.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.2	2.1
10°-20°	1322.5	5.7
20°-30°	2258.0	9.7
30°-40°	3623.7	15.5
40°-50°	5790.7	24.8
50°-60°	6204.9	26.5
60°-70°	3185.8	13.6
70°-80°	482.6	2.1
80°-90°	31.4	0.1
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°	23382.0	100.0
0°-180°	23382.0	100.0

**Coefficient of Utilization**

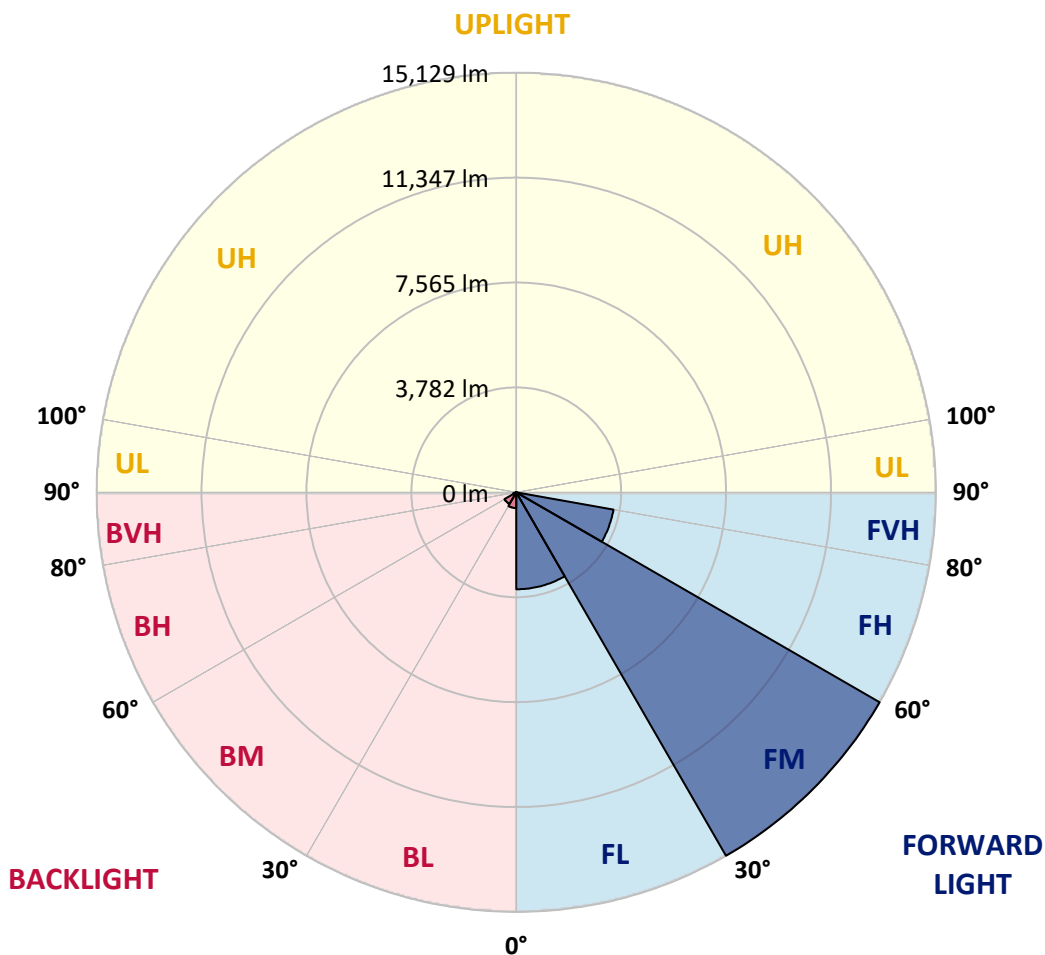


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3495.2	14.9			
FM (30°-60°)	15129.2	64.7			
FH (60°-80°)	3560.9	15.2			G2/5000
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	567.6	2.4	B2/1000		
BM (30°-60°)	490.2	2.1	B1/1000		
BH (60°-80°)	107.5	0.5	B0/110		G0/110
BVH (80°-90°)	1.3	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6
2.5°	6571.5	6473.6	6476.6	6432.2	6269.6	6142.4	6010.1	5978.8	5772.8	5556.7	5348.7
5°	7707.5	7635.8	7618.7	7532.8	7306.6	7067.3	6810.8	6751.3	6348.4	5906.1	5470.9
7.5°	8291.2	8292.2	8278.0	8246.7	8105.4	7873.1	7560.1	7497.5	6949.2	6285.8	5598.1
10°	8121.5	8159.9	8238.7	8342.7	8450.7	8421.4	8186.1	8129.6	7533.8	6687.7	5739.5
12.5°	7725.7	7730.7	7818.6	7989.2	8300.2	8619.3	8623.4	8604.2	8092.2	7107.7	5895.0
15°	7528.8	7548.0	7580.3	7690.4	7985.2	8496.1	8861.7	8888.9	8604.2	7554.0	6060.6
17.5°	7658.0	7685.3	7658.0	7671.2	7841.8	8301.3	8903.1	8972.8	9051.5	7995.3	6217.1
20°	8008.4	8033.7	7985.2	7931.7	7965.0	8244.7	8873.8	8967.7	9401.9	8387.1	6348.4
22.5°	8481.0	8491.1	8417.4	8329.5	8305.3	8436.6	8898.0	8995.0	9682.6	8741.5	6431.2
25°	9001.0	9010.1	8918.2	8817.2	8759.7	8813.2	9097.0	9169.7	9930.0	9079.8	6478.6
27.5°	9567.5	9575.6	9460.5	9336.3	9269.6	9271.6	9425.1	9502.9	10193.6	9465.5	6517.0
30°	10166.3	10162.3	10056.2	9883.6	9798.7	9796.7	9897.7	9976.5	10575.2	9960.3	6569.5
32.5°	10838.8	10830.7	10680.3	10466.2	10370.3	10384.4	10474.3	10519.7	11048.8	10487.4	6663.4
35°	11724.4	11701.1	11473.9	11208.4	11031.7	11026.6	11102.3	11138.7	11652.7	11125.6	6819.9
37.5°	12873.5	12852.3	12544.3	12158.6	11910.2	11817.3	11907.1	11953.6	12514.0	11944.5	7071.4
40°	14006.4	13985.2	13802.4	13449.0	13066.3	12843.2	12913.9	12963.3	13589.4	12938.1	7388.4
42.5°	14788.0	14806.2	14869.8	14899.0	14540.6	14072.1	14104.4	14155.9	14719.3	14000.4	7750.9
45°	14994.0	15033.3	15392.8	16098.6	16232.9	15867.4	15529.1	15557.4	15867.4	15062.6	8113.4
47.5°	14375.0	14447.7	15141.4	16454.1	17591.1	17849.6	17209.4	17172.0	16969.1	15921.9	8370.9
50°	12968.4	13035.0	13933.7	15875.5	18003.1	19741.9	19222.9	19112.8	17935.4	16435.9	8461.8
52.5°	10932.7	11013.5	11743.5	14053.9	17226.6	20586.0	21129.3	21037.4	18644.3	16476.3	8477.0
55°	7720.6	7818.6	8591.1	10771.1	14765.8	19914.5	21804.8	21777.6	19233.0	16369.3	8509.3
57.5°	4339.0	4409.6	5242.7	6904.8	10814.6	17345.7	21099.0	21279.7	19588.4	16183.5	8557.7
60°	1926.6	1945.8	2377.0	3437.2	6331.2	13256.2	19078.5	19383.4	19283.4	15935.1	8639.5
62.5°	1068.3	1052.2	1052.2	1428.8	2751.6	8206.3	15557.4	16061.3	17981.9	15641.2	8643.6
65°	837.1	821.9	778.5	784.6	1048.1	3642.2	10773.2	11668.8	15510.0	14779.9	8352.8
67.5°	709.9	696.7	653.3	636.2	651.3	1201.6	5919.2	6849.2	11768.8	12541.3	7235.0
70°	599.8	590.7	568.5	547.3	508.9	593.7	2264.9	2897.0	7252.1	8342.7	4938.7
72.5°	482.7	478.6	486.7	468.5	422.1	395.8	774.5	938.1	3257.5	3723.0	2034.7
75°	416.0	414.0	418.0	399.9	347.4	275.7	393.8	430.2	918.9	910.8	412.0
77.5°	270.6	273.6	346.3	338.3	298.9	183.8	204.0	220.1	278.7	209.0	125.2
80°	172.7	170.6	175.7	280.7	268.6	140.4	102.0	107.0	134.3	103.0	60.6
82.5°	105.0	103.0	115.1	131.3	135.3	97.9	62.6	63.6	83.8	66.6	32.3
85°	9.1	12.1	69.7	64.6	46.4	30.3	30.3	32.3	44.4	39.4	18.2
87.5°	0.0	0.0	12.1	18.2	10.1	11.1	11.1	12.1	17.2	17.2	9.1
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°	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6	5236.6
2.5°	5240.7	5135.7	4923.6	4719.6	4547.0	4380.4	4190.5	4002.7	3914.9	3879.5	3843.2
5°	5249.8	5033.7	4596.4	4156.2	3699.8	3288.8	2938.4	2578.9	2399.2	2320.4	2284.1
7.5°	5261.9	4932.7	4225.9	3486.7	2751.6	2194.2	1707.5	1394.5	1259.2	1238.0	1185.5
10°	5263.9	4810.5	3795.7	2747.6	1844.8	1322.8	1017.8	856.3	796.7	786.6	769.4
12.5°	5267.9	4666.1	3318.1	2034.7	1229.9	884.6	736.1	682.6	666.4	665.4	665.4
15°	5280.0	4514.6	2822.3	1466.2	883.5	700.8	646.2	625.0	619.0	622.0	621.0
17.5°	5280.0	4335.9	2335.6	1092.6	713.9	630.1	599.8	585.7	583.6	586.7	587.7
20°	5241.7	4118.8	1889.3	850.2	633.1	584.7	557.4	544.3	539.2	541.2	542.2
22.5°	5149.8	3852.2	1525.8	703.8	579.6	543.3	514.0	493.8	485.7	486.7	486.7
25°	5006.4	3536.2	1193.5	608.9	536.2	498.8	464.5	441.3	436.2	435.2	437.2
27.5°	4822.6	3186.8	950.2	536.2	484.7	449.3	415.0	395.8	391.8	392.8	393.8
30°	4641.9	2824.3	749.2	474.6	427.1	393.8	367.6	358.5	358.5	361.5	362.5
32.5°	4476.3	2475.9	592.7	421.1	375.6	345.3	330.2	329.2	334.2	336.3	337.3
35°	4333.9	2153.8	490.7	379.7	335.2	309.0	303.9	308.0	314.0	318.1	319.1
37.5°	4232.9	1866.0	429.1	345.3	303.9	282.7	281.7	289.8	297.9	307.0	309.0
40°	4190.5	1622.7	386.7	315.0	278.7	262.5	259.5	270.6	285.8	298.9	300.9
42.5°	4155.2	1423.8	350.4	285.8	258.5	235.3	234.3	248.4	266.6	279.7	282.7
45°	4124.9	1264.2	317.1	254.5	232.2	202.0	205.0	223.2	237.3	251.4	254.5
47.5°	4062.3	1133.0	280.7	221.1	191.9	172.7	178.7	194.9	206.0	227.2	230.2
50°	3950.2	1025.9	243.4	180.7	156.5	149.4	158.5	169.6	183.8	202.0	204.0
52.5°	3874.5	945.1	211.0	151.5	129.2	131.3	140.4	144.4	152.5	159.5	157.5
55°	3831.0	900.7	184.8	131.3	110.1	116.1	118.1	113.1	109.1	102.0	99.0
57.5°	3826.0	860.3	164.6	114.1	96.9	100.0	92.9	75.7	61.6	53.5	51.5
60°	3817.9	810.8	148.4	95.9	85.8	81.8	66.6	41.4	29.3	27.3	27.3
62.5°	3730.1	734.1	136.3	80.8	72.7	61.6	38.4	19.2	16.2	17.2	17.2
65°	3450.4	627.1	124.2	65.6	57.6	44.4	19.2	11.1	6.1	7.1	7.1
67.5°	2933.4	499.8	111.1	50.5	43.4	28.3	11.1	5.0	0.0	0.0	0.0
70°	1964.0	310.0	93.9	35.3	28.3	17.2	8.1	1.0	0.0	0.0	0.0
72.5°	753.3	167.6	75.7	21.2	18.2	12.1	5.0	0.0	0.0	0.0	0.0
75°	169.6	110.1	52.5	15.1	13.1	8.1	2.0	0.0	0.0	0.0	0.0
77.5°	64.6	79.8	30.3	10.1	9.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	47.5	14.1	6.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.2	18.2	6.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	9.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)