

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: P324839

Luminaire Tested: **GAN-SA5B-750-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324839  
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-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 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: 23381 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

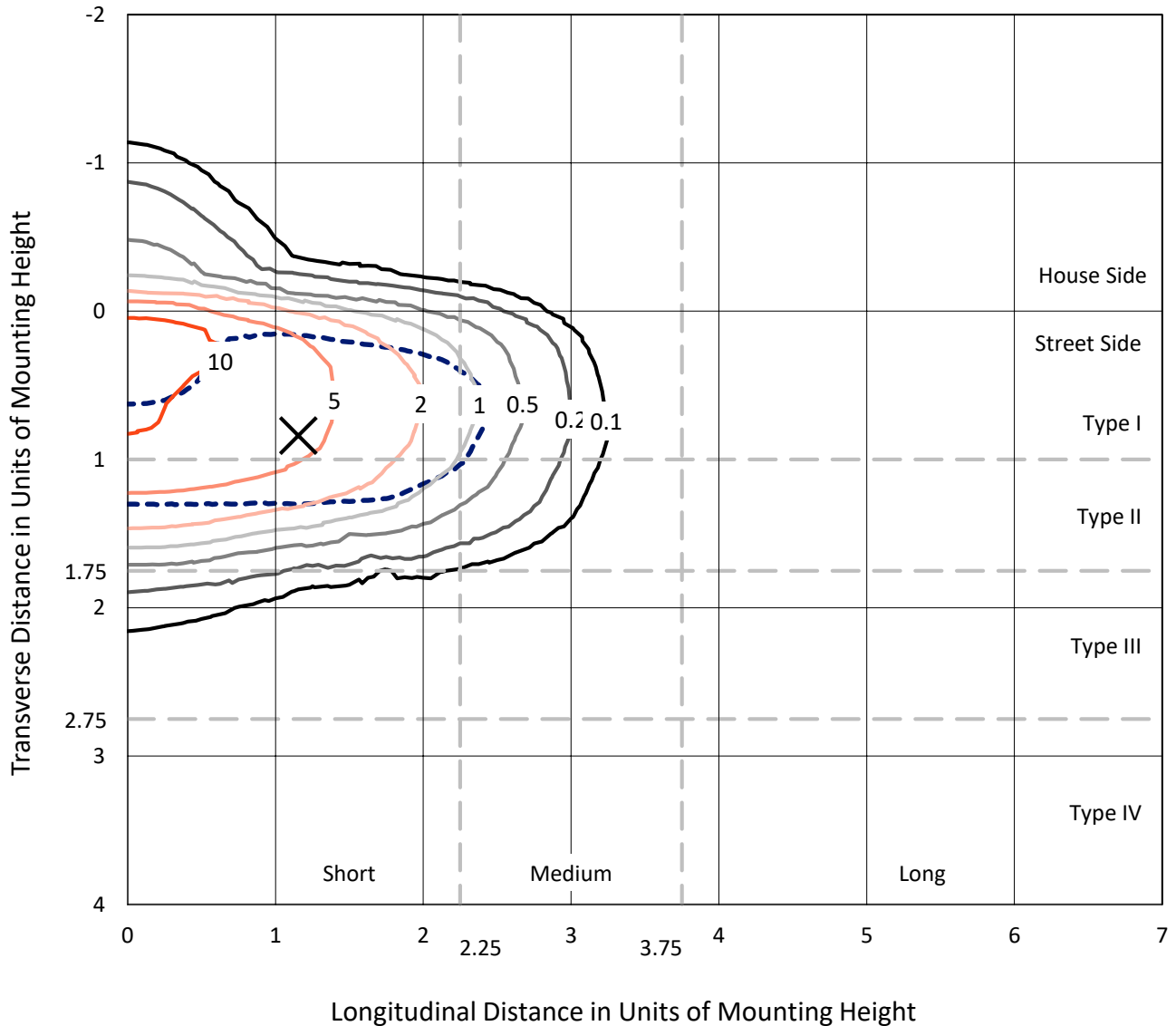
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

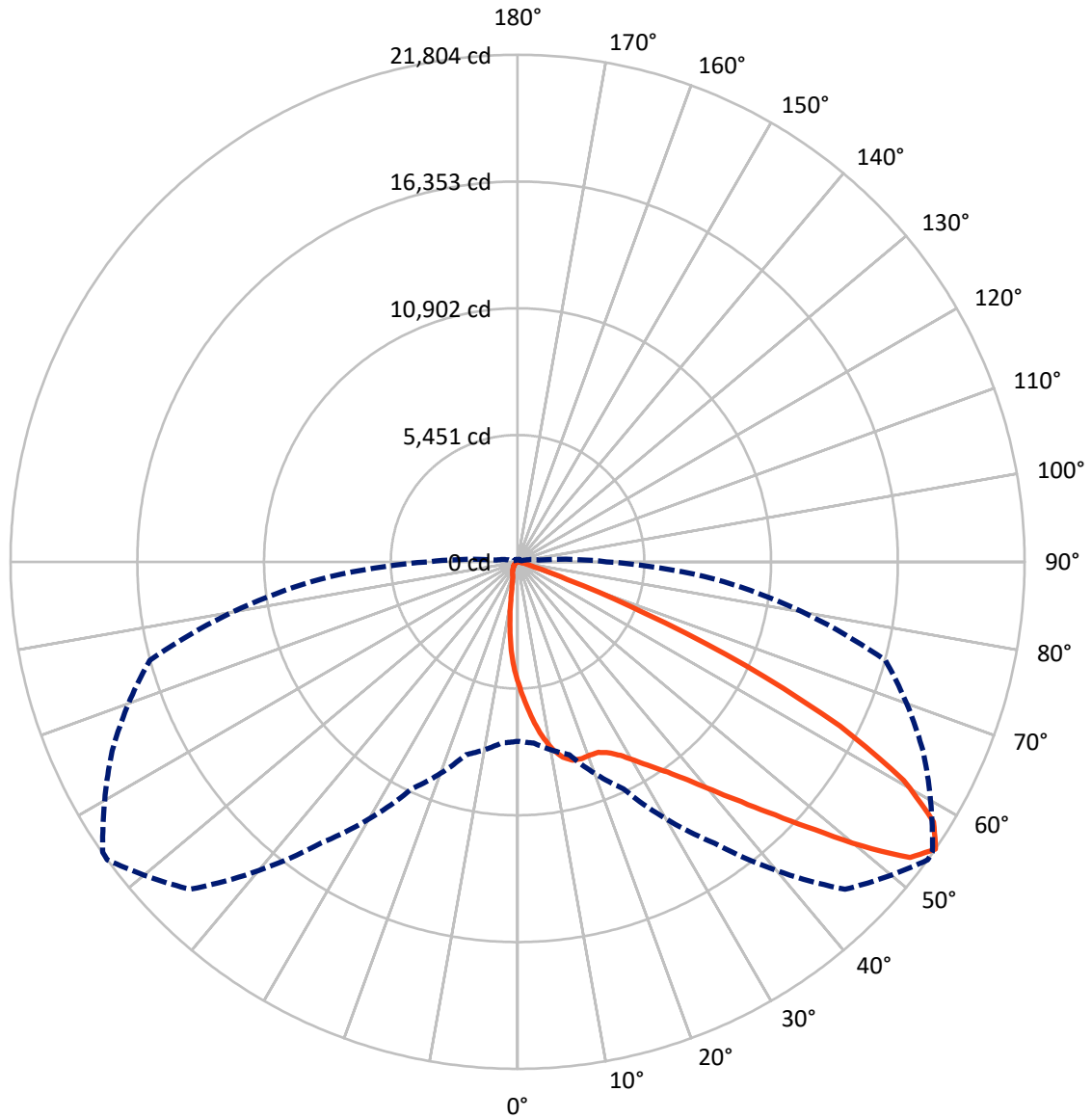
✕ Max cd  
 - - - 1/2 Max cd



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	1166.5	0.0	1166.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	22214.5	0.0	22214.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	23381.0	0.0	23381.0
	% 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°	2257.9	9.7
30°-40°	3623.6	15.5
40°-50°	5790.5	24.8
50°-60°	6204.7	26.5
60°-70°	3185.7	13.6
70°-80°	482.5	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°	23381.0	100.0
0°-180°	23381.0	100.0

**Coefficient of Utilization**



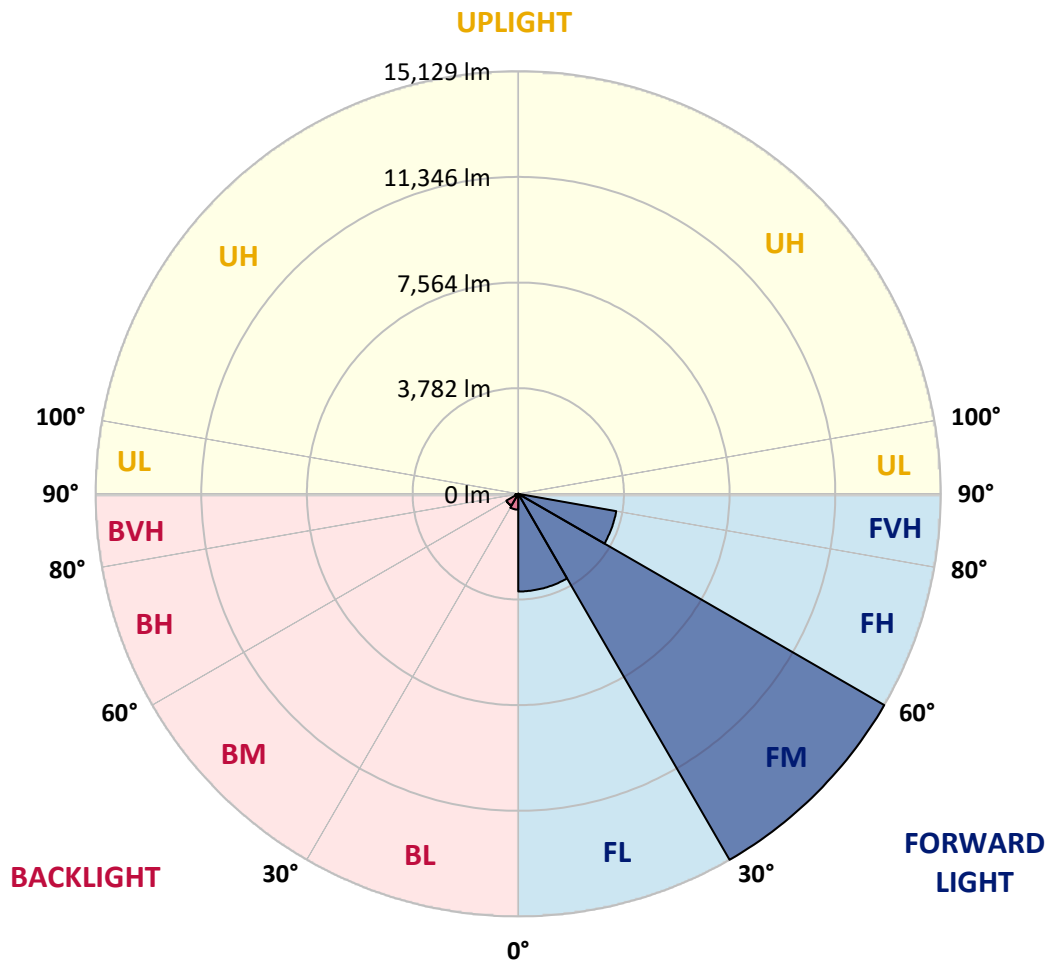
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3495.1	14.9			
FM (30°-60°)	15128.5	64.7			
FH (60°-80°)	3560.7	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°	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4
2.5°	6571.3	6473.3	6476.3	6431.9	6269.3	6142.1	6009.9	5978.5	5772.6	5556.5	5348.5
5°	7707.2	7635.5	7618.3	7532.5	7306.3	7067.0	6810.6	6751.0	6348.1	5905.8	5470.7
7.5°	8290.8	8291.8	8277.7	8246.4	8105.0	7872.8	7559.8	7497.2	6948.9	6285.5	5597.9
10°	8121.2	8159.5	8238.3	8342.3	8450.3	8421.1	8185.8	8129.3	7533.5	6687.4	5739.2
12.5°	7725.4	7730.4	7818.3	7988.9	8299.9	8619.0	8623.0	8603.8	8091.9	7107.4	5894.7
15°	7528.5	7547.7	7580.0	7690.0	7984.9	8495.8	8861.3	8888.6	8603.8	7553.7	6060.3
17.5°	7657.7	7685.0	7657.7	7670.8	7841.5	8300.9	8902.7	8972.4	9051.1	7995.0	6216.8
20°	8008.1	8033.3	7984.9	7931.3	7964.7	8244.4	8873.4	8967.3	9401.5	8386.7	6348.1
22.5°	8480.6	8490.7	8417.0	8329.2	8304.9	8436.2	8897.6	8994.6	9682.2	8741.1	6430.9
25°	9000.6	9009.7	8917.8	8816.9	8759.3	8812.8	9096.6	9169.3	9929.6	9079.4	6478.4
27.5°	9567.1	9575.2	9460.1	9335.9	9269.2	9271.2	9424.7	9502.5	10193.1	9465.1	6516.7
30°	10165.9	10161.8	10055.8	9883.1	9798.3	9796.3	9897.3	9976.0	10574.8	9959.9	6569.2
32.5°	10838.3	10830.3	10679.8	10465.7	10369.8	10384.0	10473.8	10519.3	11048.4	10486.9	6663.1
35°	11723.9	11700.6	11473.4	11207.9	11031.2	11026.1	11101.9	11138.2	11652.2	11125.1	6819.6
37.5°	12872.9	12851.7	12543.7	12158.0	11909.6	11816.7	11906.6	11953.1	12513.5	11944.0	7071.1
40°	14005.8	13984.6	13801.9	13448.5	13065.8	12842.6	12913.3	12962.8	13588.8	12937.5	7388.1
42.5°	14787.3	14805.5	14869.1	14898.4	14540.0	14071.5	14103.8	14155.3	14718.7	13999.8	7750.6
45°	14993.3	15032.7	15392.2	16098.0	16232.3	15866.7	15528.5	15556.7	15866.7	15062.0	8113.1
47.5°	14374.4	14447.1	15140.7	16453.4	17590.3	17848.8	17208.7	17171.3	16968.3	15921.3	8370.6
50°	12967.8	13034.5	13933.1	15874.8	18002.3	19741.0	19222.0	19112.0	17934.6	16435.2	8461.4
52.5°	10932.2	11013.0	11743.0	14053.3	17225.8	20585.2	21128.4	21036.5	18643.5	16475.6	8476.6
55°	7720.3	7818.3	8590.7	10770.7	14765.1	19913.7	21803.9	21776.6	19232.1	16368.6	8508.9
57.5°	4338.8	4409.4	5242.5	6904.5	10814.1	17345.0	21098.1	21278.8	19587.5	16182.8	8557.4
60°	1926.5	1945.7	2376.9	3437.1	6330.9	13255.6	19077.6	19382.6	19282.6	15934.4	8639.2
62.5°	1068.3	1052.1	1052.1	1428.8	2751.5	8206.0	15556.7	16060.6	17981.1	15640.6	8643.2
65°	837.1	821.9	778.5	784.6	1048.1	3642.1	10772.7	11668.3	15509.3	14779.3	8352.4
67.5°	709.8	696.7	653.3	636.1	651.3	1201.6	5919.0	6848.9	11768.3	12540.7	7234.6
70°	599.8	590.7	568.5	547.3	508.9	593.7	2264.8	2896.9	7251.8	8342.3	4938.5
72.5°	482.6	478.6	486.7	468.5	422.1	395.8	774.5	938.0	3257.4	3722.8	2034.6
75°	416.0	414.0	418.0	399.8	347.3	275.7	393.8	430.1	918.8	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°	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4	5236.4
2.5°	5240.4	5135.4	4923.4	4719.4	4546.8	4380.2	4190.3	4002.5	3914.7	3879.3	3843.0
5°	5249.5	5033.5	4596.2	4156.0	3699.6	3288.7	2938.3	2578.8	2399.1	2320.3	2284.0
7.5°	5261.6	4932.5	4225.7	3486.6	2751.5	2194.1	1707.4	1394.4	1259.1	1237.9	1185.4
10°	5263.7	4810.3	3795.5	2747.4	1844.8	1322.7	1017.8	856.2	796.7	786.6	769.4
12.5°	5267.7	4665.9	3317.9	2034.6	1229.8	884.5	736.1	682.6	666.4	665.4	665.4
15°	5279.8	4514.5	2822.2	1466.1	883.5	700.7	646.2	625.0	619.0	622.0	621.0
17.5°	5279.8	4335.7	2335.5	1092.5	713.9	630.1	599.8	585.6	583.6	586.6	587.7
20°	5241.5	4118.6	1889.2	850.2	633.1	584.6	557.4	544.2	539.2	541.2	542.2
22.5°	5149.6	3852.1	1525.7	703.8	579.6	543.2	513.9	493.8	485.7	486.7	486.7
25°	5006.2	3536.0	1193.5	608.9	536.2	498.8	464.5	441.2	436.2	435.2	437.2
27.5°	4822.4	3186.7	950.1	536.2	484.7	449.3	415.0	395.8	391.8	392.8	393.8
30°	4641.7	2824.2	749.2	474.6	427.1	393.8	367.5	358.5	358.5	361.5	362.5
32.5°	4476.1	2475.8	592.7	421.1	375.6	345.3	330.2	329.2	334.2	336.2	337.2
35°	4333.7	2153.7	490.7	379.7	335.2	309.0	303.9	308.0	314.0	318.1	319.1
37.5°	4232.7	1866.0	429.1	345.3	303.9	282.7	281.7	289.8	297.9	307.0	309.0
40°	4190.3	1622.6	386.7	315.0	278.7	262.5	259.5	270.6	285.8	298.9	300.9
42.5°	4155.0	1423.7	350.4	285.8	258.5	235.3	234.3	248.4	266.6	279.7	282.7
45°	4124.7	1264.2	317.1	254.4	232.2	201.9	205.0	223.1	237.3	251.4	254.4
47.5°	4062.1	1132.9	280.7	221.1	191.8	172.7	178.7	194.9	206.0	227.2	230.2
50°	3950.0	1025.9	243.3	180.7	156.5	149.4	158.5	169.6	183.8	201.9	204.0
52.5°	3874.3	945.1	211.0	151.5	129.2	131.3	140.4	144.4	152.5	159.5	157.5
55°	3830.9	900.7	184.8	131.3	110.1	116.1	118.1	113.1	109.0	102.0	99.0
57.5°	3825.8	860.3	164.6	114.1	96.9	100.0	92.9	75.7	61.6	53.5	51.5
60°	3817.7	810.8	148.4	95.9	85.8	81.8	66.6	41.4	29.3	27.3	27.3
62.5°	3729.9	734.1	136.3	80.8	72.7	61.6	38.4	19.2	16.2	17.2	17.2
65°	3450.2	627.0	124.2	65.6	57.6	44.4	19.2	11.1	6.1	7.1	7.1
67.5°	2933.2	499.8	111.1	50.5	43.4	28.3	11.1	5.0	0.0	0.0	0.0
70°	1963.9	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)