

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: P321230

Luminaire Tested: **GAN-SA6A-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321230  
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-SA6A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 615mA 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: 20489 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

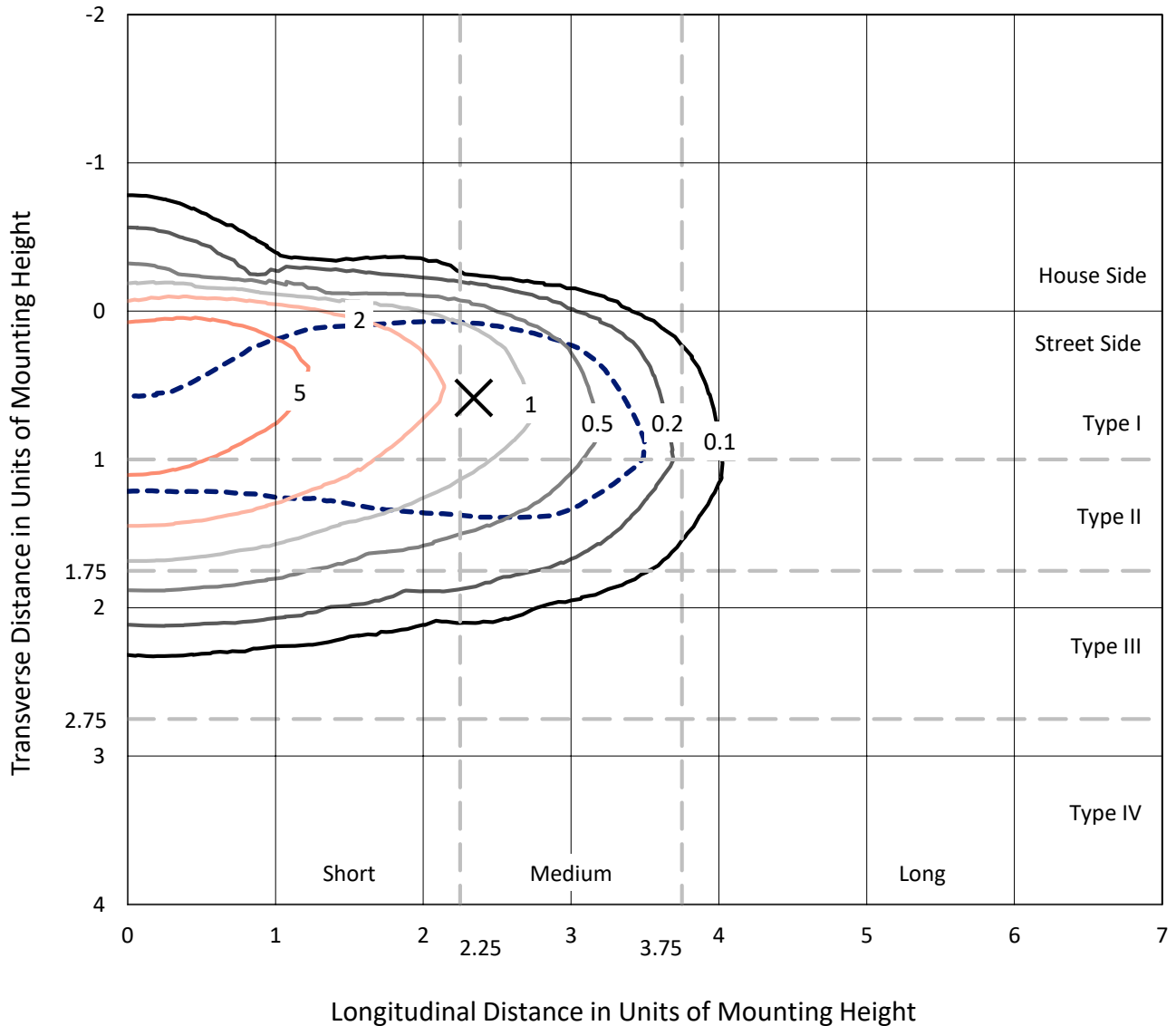
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

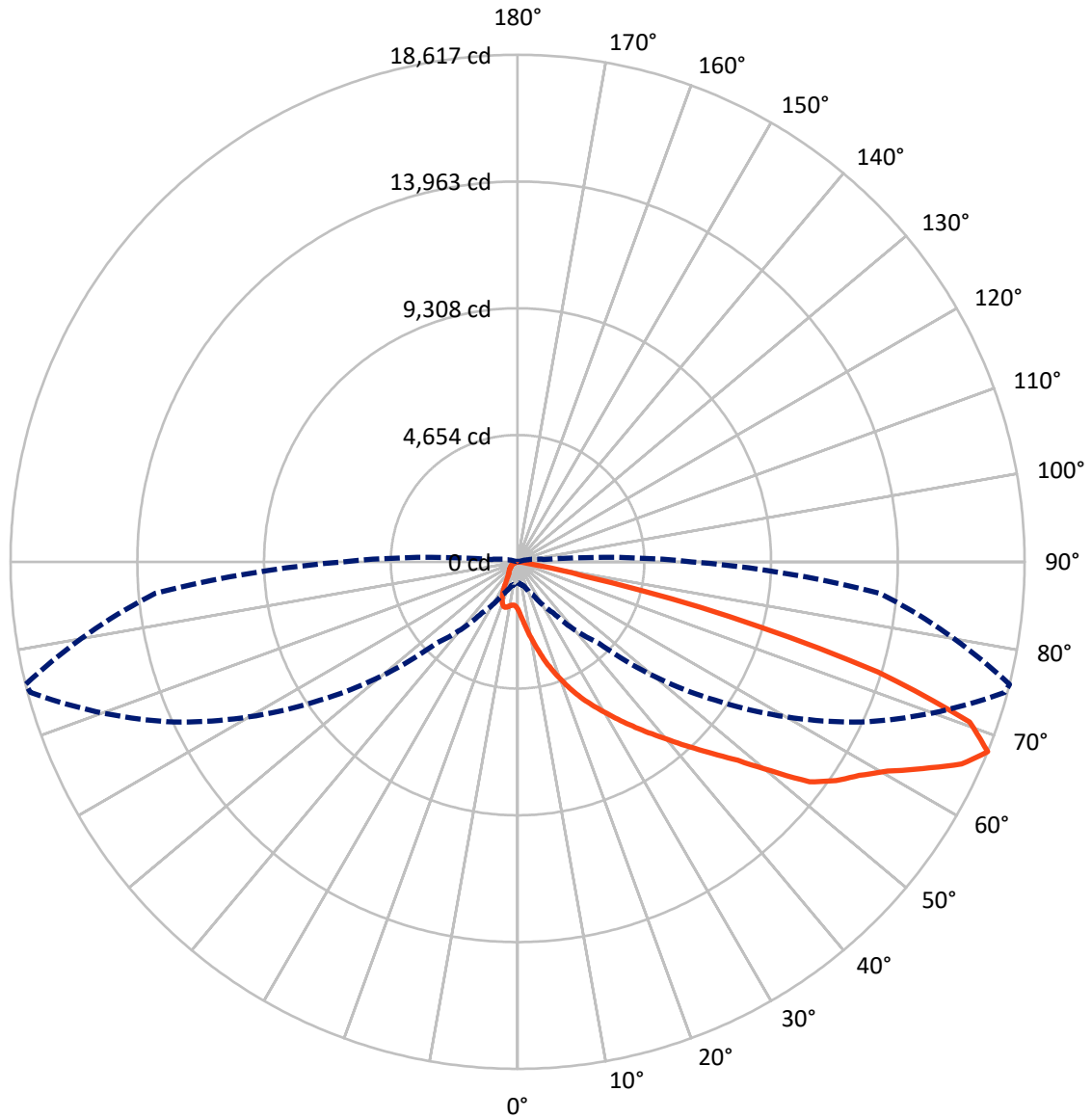
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	1017.4	0.0	1017.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	19471.6	0.0	19471.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	20489.0	0.0	20489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	1.1
10°-20°	856.8	4.2
20°-30°	1743.2	8.5
30°-40°	3025.6	14.8
40°-50°	4274.8	20.9
50°-60°	4847.9	23.7
60°-70°	4020.9	19.6
70°-80°	1456.5	7.1
80°-90°	47.2	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°	20489.0	100.0
0°-180°	20489.0	100.0

**Coefficient of Utilization**



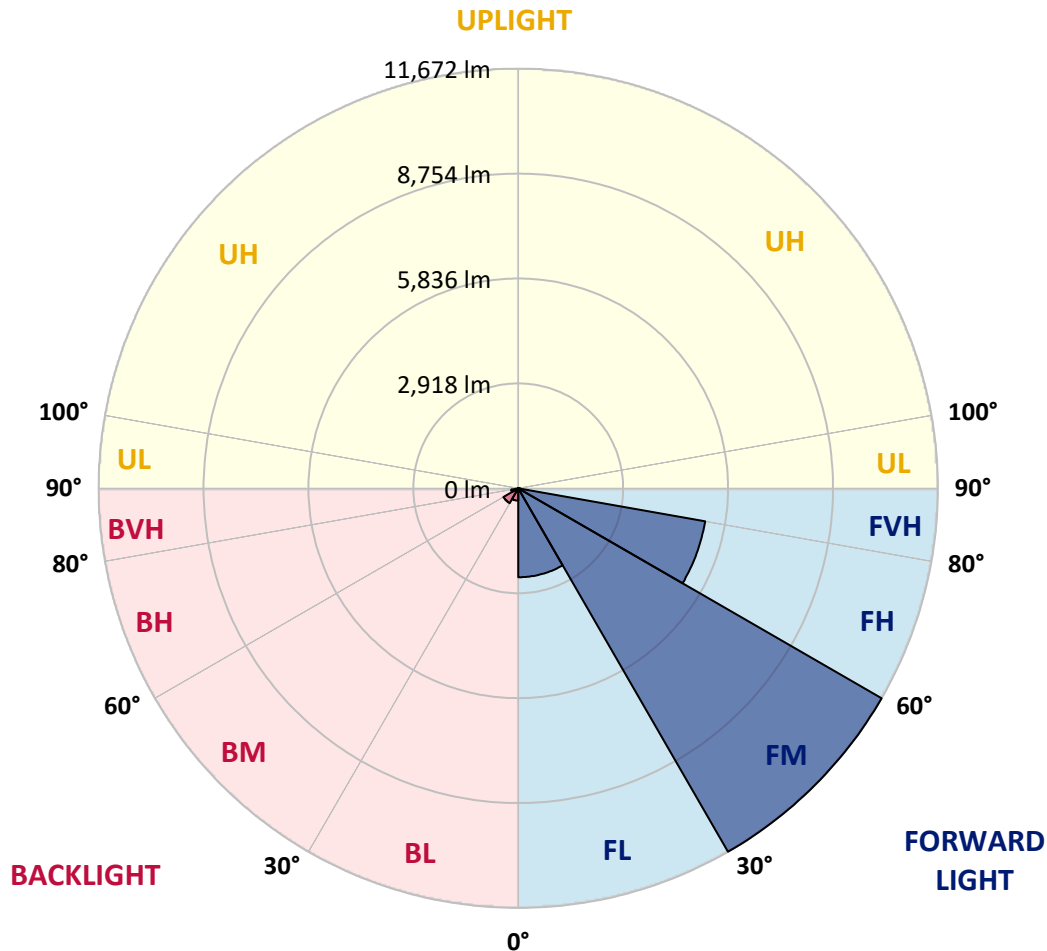
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.0	12.1			
FM (30°-60°)	11672.2	57.0			
FH (60°-80°)	5280.7	25.8			G3/7500
FVH (80°-90°)	45.7	0.2			G1/100
BL (0°-30°)	343.1	1.7	B1/500		
BM (30°-60°)	476.2	2.3	B1/1000		
BH (60°-80°)	196.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	2594.5	2536.2	2549.6	2511.9	2443.7	2303.6	2184.2	2071.1	1939.2	1934.7	1826.0
5°	3498.6	3449.2	3442.9	3366.6	3242.7	3004.8	2773.2	2509.2	2214.8	2193.2	1962.5
7.5°	4319.1	4279.6	4265.3	4174.6	3943.9	3712.2	3410.6	3022.8	2562.2	2522.7	2146.5
10°	4949.3	4930.5	4934.1	4869.4	4671.9	4456.5	4060.6	3565.9	2956.3	2895.3	2367.4
12.5°	5427.0	5431.4	5463.8	5424.3	5313.8	5154.0	4731.2	4145.0	3392.6	3309.1	2619.7
15°	5778.0	5800.4	5859.7	5909.0	5901.0	5762.7	5374.9	4733.0	3855.9	3763.4	2900.7
17.5°	6005.1	6030.2	6116.4	6226.0	6326.5	6294.2	5996.1	5300.4	4324.5	4217.7	3201.4
20°	6204.4	6234.0	6326.5	6471.0	6658.7	6699.1	6503.4	5850.7	4792.2	4662.1	3512.0
22.5°	6636.2	6635.3	6691.9	6776.3	6954.9	7059.1	6935.2	6361.5	5254.6	5119.0	3828.9
25°	7417.3	7387.7	7367.9	7301.5	7341.0	7405.6	7336.5	6839.1	5719.6	5582.3	4150.3
27.5°	8345.6	8363.5	8203.7	8025.1	7886.8	7820.4	7707.3	7281.7	6166.7	6015.9	4464.6
30°	9325.0	9330.4	9141.9	8913.8	8609.5	8357.2	8161.5	7704.6	6626.4	6462.1	4769.8
32.5°	10208.4	10173.4	9986.7	9676.0	9291.8	9008.1	8601.4	8176.8	7112.9	6954.0	5109.1
35°	10908.7	10867.4	10640.2	10357.4	9958.8	9673.3	9184.1	8648.1	7624.7	7469.4	5449.4
37.5°	11420.4	11371.9	11138.5	10847.6	10503.8	10337.7	9860.1	9160.7	8183.1	8016.1	5807.6
40°	11598.1	11555.9	11409.6	11196.8	10920.3	10882.6	10577.4	9750.6	8790.9	8613.1	6213.4
42.5°	11492.2	11450.9	11398.8	11327.0	11212.1	11248.0	11254.3	10423.0	9466.0	9290.9	6661.4
45°	11072.1	11035.2	11089.1	11194.2	11336.9	11514.7	11872.0	11145.7	10220.1	10033.3	7179.4
47.5°	10453.5	10426.6	10575.6	10837.7	11255.2	11745.4	12436.6	11905.2	11066.7	10893.4	7825.8
50°	9573.7	9569.2	9867.3	10345.8	10987.7	11856.7	13020.2	12768.8	12242.7	12060.5	8724.4
52.5°	8203.7	8212.7	8798.9	9564.7	10518.1	11781.3	13395.5	13878.4	13610.9	13421.5	9502.8
55°	6899.3	6953.1	7368.8	8473.0	9798.1	11501.2	13524.7	14396.5	14365.9	14186.4	9935.5
57.5°	5621.8	5719.6	6120.0	7151.5	8746.9	10855.7	13453.8	14620.9	14927.9	14790.6	10506.5
60°	4237.4	4282.3	4743.8	5707.9	7397.5	9677.8	12939.4	14743.0	15696.4	15601.2	11335.1
62.5°	2696.0	2808.2	3217.6	4147.6	5760.0	8042.1	12072.2	14741.2	16657.9	16710.0	12404.3
65°	1420.3	1551.3	1768.6	2570.3	3958.2	6215.2	10767.7	14602.9	17837.6	17910.3	13240.1
67.5°	765.8	803.5	918.4	1334.1	2295.6	4210.5	8851.0	13920.6	18520.8	18616.8	13356.9
70°	560.2	580.8	623.9	738.0	1155.4	2445.5	6458.5	12373.8	17640.1	17604.1	11867.5
72.5°	430.0	462.3	494.7	540.5	664.3	1305.3	4021.1	9689.5	14075.1	13838.1	8870.8
75°	339.4	344.7	390.5	431.8	498.3	743.3	1785.6	5643.3	8590.7	8029.6	4600.1
77.5°	271.1	274.7	301.6	337.6	400.4	488.4	553.0	2220.2	2742.7	2447.3	998.3
80°	160.7	169.7	224.4	260.3	332.2	307.9	202.0	482.1	428.2	387.8	167.9
82.5°	89.8	97.0	126.6	205.6	231.6	147.2	100.5	130.2	100.5	97.9	47.6
85°	0.0	4.5	81.7	127.5	94.3	32.3	42.2	43.1	29.6	27.8	18.9
87.5°	0.0	0.0	25.1	24.2	3.6	5.4	9.9	14.4	11.7	11.7	9.9
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°	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1	1738.1
2.5°	1772.2	1723.7	1632.1	1542.3	1466.9	1405.0	1349.3	1326.9	1308.9	1306.2	1291.9
5°	1851.2	1753.3	1578.3	1434.6	1338.6	1270.3	1212.0	1176.1	1148.2	1137.5	1127.6
7.5°	1970.6	1822.4	1571.1	1405.9	1291.0	1176.1	1068.3	951.6	878.9	851.1	834.9
10°	2116.0	1914.0	1598.0	1397.8	1196.7	954.3	775.7	627.5	567.4	547.6	542.2
12.5°	2285.7	2028.0	1644.7	1347.5	995.6	677.8	535.1	484.8	471.3	465.0	465.0
15°	2480.5	2152.8	1677.9	1202.1	736.2	512.6	463.2	439.9	425.5	417.5	418.4
17.5°	2679.8	2274.9	1661.8	991.1	543.1	456.1	419.3	394.1	374.4	366.3	364.5
20°	2880.9	2388.0	1572.0	738.0	459.7	413.9	372.6	344.7	325.0	316.9	315.1
22.5°	3089.2	2484.1	1414.0	541.3	413.0	367.2	326.8	299.0	280.1	272.9	269.3
25°	3292.1	2562.2	1193.1	438.1	369.0	323.2	284.6	258.6	241.5	234.3	233.4
27.5°	3481.5	2611.6	937.3	386.9	330.4	283.7	248.7	225.3	211.0	205.6	204.7
30°	3652.1	2616.1	693.1	349.2	296.3	249.6	217.3	196.6	184.0	178.7	176.9
32.5°	3824.5	2578.4	504.5	315.1	264.8	220.0	188.5	172.4	163.4	158.9	158.9
35°	3986.9	2491.3	393.2	285.5	234.3	191.2	166.1	154.4	149.0	144.5	144.5
37.5°	4145.8	2366.5	334.0	259.5	205.6	167.0	146.3	139.2	134.7	130.2	130.2
40°	4307.4	2209.4	303.4	235.2	182.2	148.1	130.2	123.9	119.4	115.8	114.9
42.5°	4505.9	2028.0	283.7	212.8	161.6	131.1	114.9	107.7	104.1	100.5	98.8
45°	4735.7	1871.8	267.5	190.3	144.5	116.7	99.7	92.5	87.1	82.6	81.7
47.5°	5066.9	1758.7	246.0	166.1	128.4	101.4	86.2	78.1	70.0	65.5	64.6
50°	5489.8	1665.3	218.2	144.5	112.2	86.2	71.8	61.9	54.8	50.3	50.3
52.5°	5699.9	1543.2	193.0	125.7	94.3	72.7	58.4	46.7	43.1	38.6	38.6
55°	5784.3	1449.9	167.9	106.8	78.1	60.1	45.8	35.9	33.2	30.5	29.6
57.5°	6021.3	1422.9	146.3	90.7	64.6	47.6	35.0	26.9	25.1	21.5	21.5
60°	6402.8	1436.4	126.6	77.2	52.1	36.8	26.0	20.6	18.9	15.3	15.3
62.5°	6814.9	1419.4	106.8	66.4	40.4	26.9	18.0	15.3	15.3	9.0	8.1
65°	6893.9	1264.0	91.6	54.8	31.4	19.8	11.7	9.9	13.5	1.8	0.0
67.5°	6398.3	980.4	79.0	42.2	23.3	15.3	9.0	4.5	11.7	0.0	0.0
70°	5116.3	623.0	63.7	30.5	18.0	12.6	7.2	1.8	9.0	0.0	0.0
72.5°	3618.0	361.8	50.3	21.5	15.3	9.9	5.4	0.0	5.4	0.0	0.0
75°	1829.6	193.0	31.4	16.2	11.7	7.2	3.6	0.0	0.9	0.0	0.0
77.5°	395.9	89.8	19.8	11.7	8.1	4.5	1.8	0.0	0.0	0.0	0.0
80°	86.2	39.5	12.6	7.2	4.5	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	31.4	20.6	6.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.1	10.8	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.6	0.9	0.9	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)