

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: P300698

Luminaire Tested: **GAA-AF-07-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-07-LED-U-AFL-8030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20643.4 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 295  
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: 28.75 FT

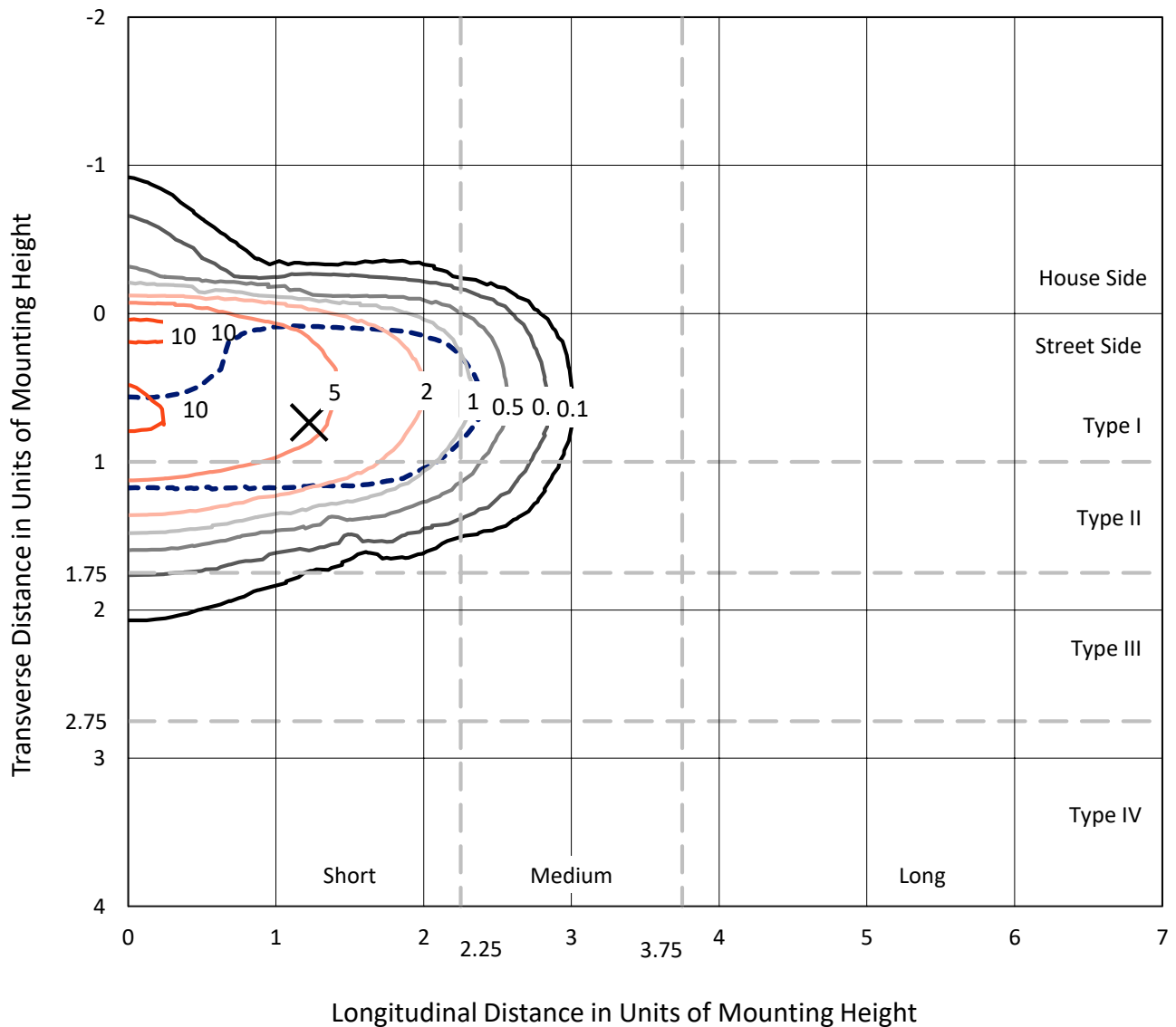


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

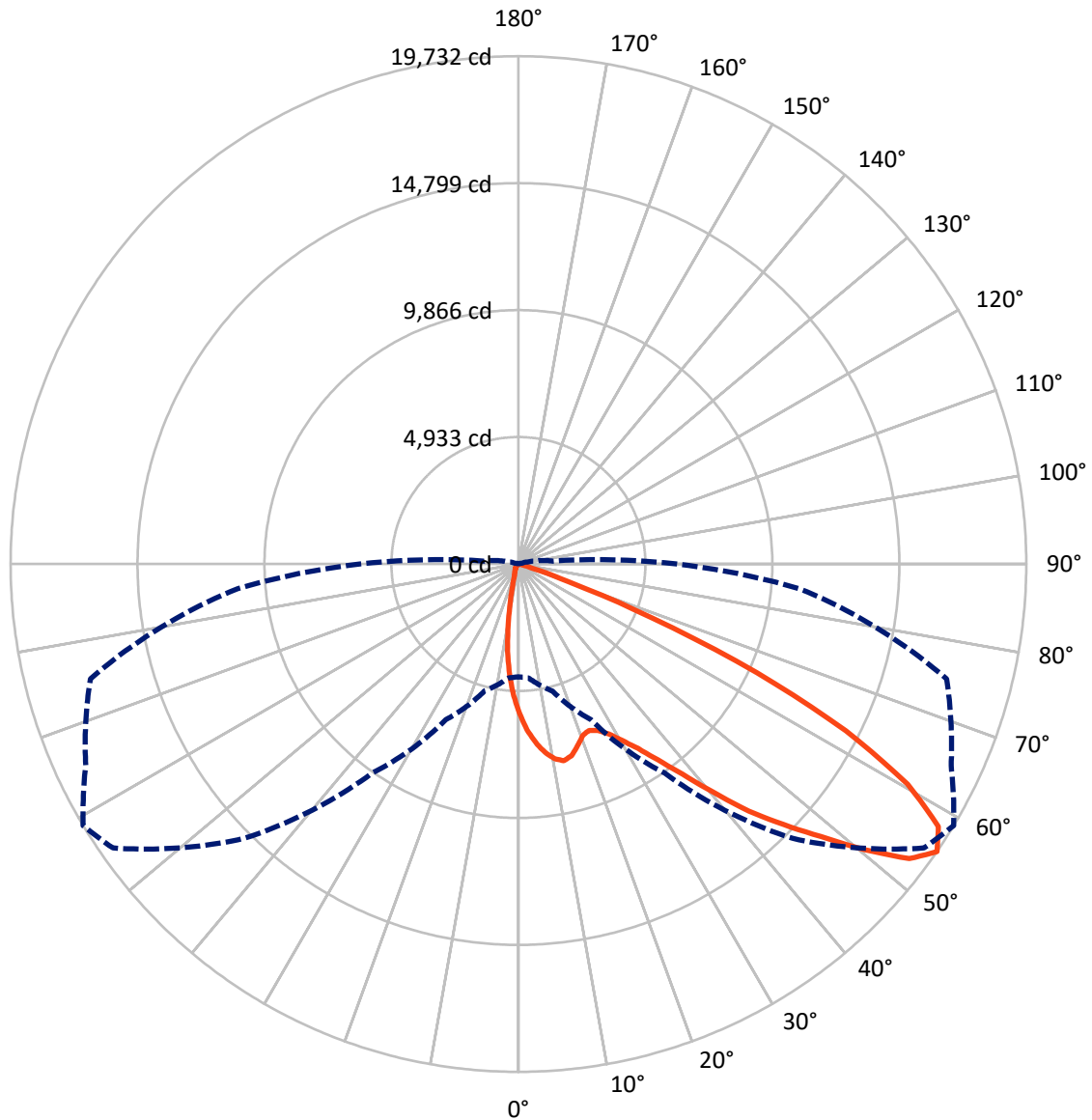


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1153.0	0.0	1153.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	19490.3	0.0	19490.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	20643.4	0.0	20643.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.7	2.4
10°-20°	1165.4	5.6
20°-30°	1983.0	9.6
30°-40°	3410.4	16.5
40°-50°	5265.3	25.5
50°-60°	5293.3	25.6
60°-70°	2714.4	13.1
70°-80°	294.2	1.4
80°-90°	30.8	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°	20643.4	100.0
0°-180°	20643.4	100.0



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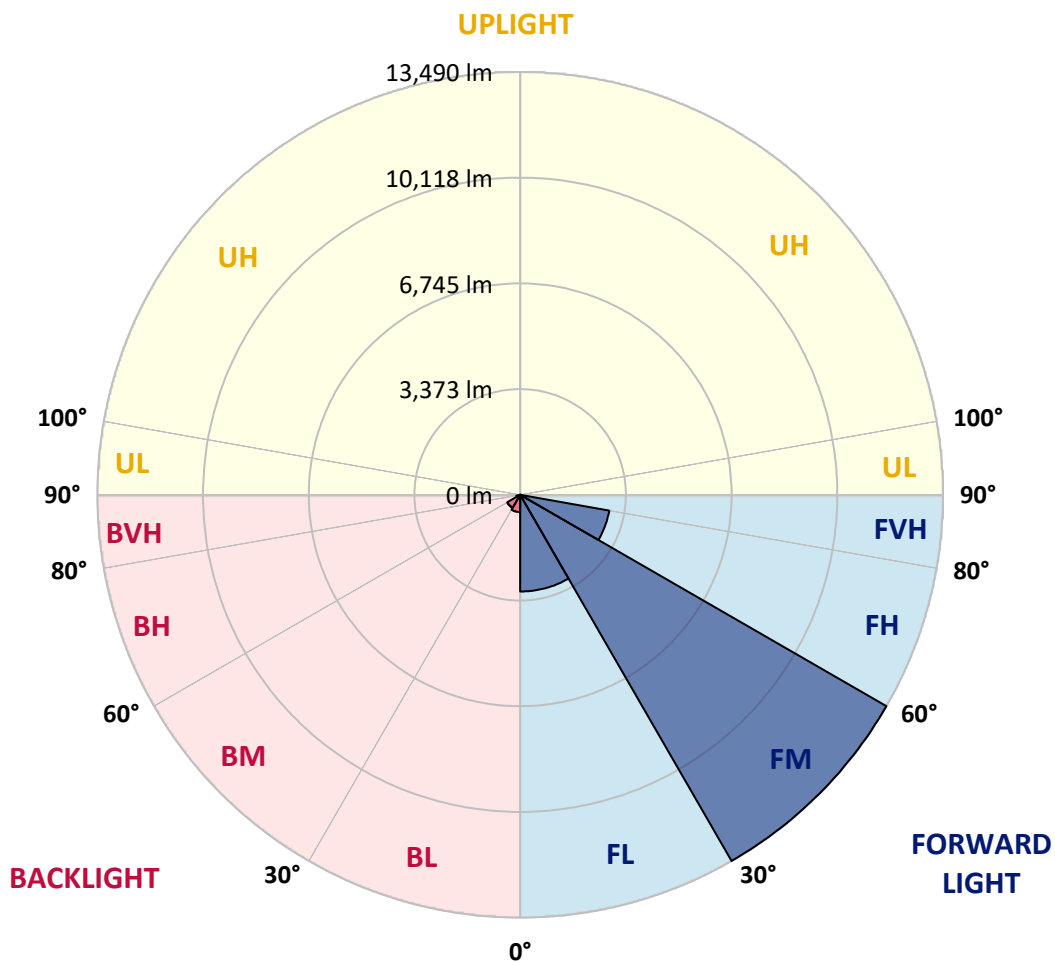
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.8	14.9			
FM (30°-60°)	13490.3	65.3			
FH (60°-80°)	2885.1	14.0			G2/5000
FVH (80°-90°)	30.1	0.1			G1/100
BL (0°-30°)	550.3	2.7	B2/1000		
BM (30°-60°)	478.5	2.3	B1/1000		
BH (60°-80°)	123.5	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	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°	55°	59°	65°	75°	85°
0°	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0
2.5°	6875.8	6802.7	6780.8	6766.1	6699.1	6615.1	6500.6	6447.0	6337.3	6160.7	5943.8
5°	7505.6	7492.2	7443.5	7416.7	7344.8	7225.4	7042.7	6955.0	6780.8	6483.5	6094.9
7.5°	7230.3	7314.3	7381.3	7493.4	7634.7	7629.9	7476.4	7385.0	7190.1	6797.8	6263.0
10°	6166.8	6235.0	6344.6	6599.2	7118.2	7576.3	7756.6	7690.8	7534.8	7086.5	6425.0
12.5°	5958.4	5951.1	5970.6	6044.9	6316.6	6969.6	7709.1	7841.8	7810.2	7350.9	6578.5
15°	6069.3	6060.8	6058.3	6083.9	6149.7	6425.0	7352.1	7733.4	7978.3	7595.8	6708.9
17.5°	6379.9	6343.4	6323.9	6303.2	6283.7	6351.9	6923.3	7430.1	8003.9	7810.2	6817.3
20°	6912.3	6851.4	6779.5	6662.6	6552.9	6518.8	6743.0	7118.2	7912.5	7973.4	6888.0
22.5°	7581.1	7503.2	7378.9	7165.7	6942.8	6813.6	6831.9	7019.5	7776.1	8151.3	6920.8
25°	8332.8	8232.9	8067.2	7771.2	7443.5	7214.4	7095.1	7160.8	7713.9	8359.6	6958.6
27.5°	9138.1	9027.2	8810.3	8407.1	8035.5	7726.1	7482.5	7473.9	7819.9	8632.5	7019.5
30°	9936.0	9918.9	9636.3	9209.9	8717.8	8341.3	7990.5	7945.4	8115.9	9010.1	7140.1
32.5°	11000.8	10872.8	10526.9	10088.3	9520.6	9068.6	8653.2	8548.4	8570.4	9449.9	7326.5
35°	12343.3	12203.2	11715.9	11110.4	10475.7	9942.1	9482.8	9340.3	9286.7	10169.9	7640.8
37.5°	13210.6	13208.2	12902.4	12286.0	11605.0	11016.6	10517.1	10350.2	10241.8	11039.7	8128.1
40°	13233.8	13291.1	13331.3	13325.2	12840.3	12298.2	11854.7	11648.9	11396.7	12201.9	8758.0
42.5°	12523.6	12671.0	13025.5	13627.3	13914.8	13699.2	13325.2	13122.9	12747.7	13445.8	9525.5
45°	11563.6	11665.9	12286.0	13394.6	14497.1	15088.0	14802.9	14441.1	13946.5	14743.2	10213.8
47.5°	11133.5	11151.8	11552.6	12769.6	14541.0	16225.8	16398.8	15810.4	15035.6	15788.5	10752.2
50°	9848.3	9881.2	10434.3	11686.6	14026.9	16763.0	18002.0	17444.0	16223.4	16593.7	10948.4
52.5°	7422.8	7469.1	8170.8	9906.8	12613.7	16534.0	19149.6	19014.4	17524.5	16987.2	10959.3
55°	4379.6	4440.5	5110.5	6668.7	9921.4	15077.0	19234.9	19731.9	18551.4	17219.9	10942.3
57.5°	2045.4	2088.1	2471.8	3435.5	6170.4	11915.7	17950.8	19239.7	19117.9	17342.9	11062.9
60°	1086.7	1098.9	1191.4	1487.5	2788.6	7555.6	15444.9	17373.4	18601.4	17513.5	11210.3
62.5°	830.8	834.5	829.6	865.0	1172.0	3353.8	11674.4	14282.7	16521.8	17385.6	11047.0
65°	720.0	726.1	692.0	683.4	751.7	1196.3	6935.5	10180.9	12982.8	15659.3	9934.8
67.5°	645.7	648.1	606.7	571.4	583.5	646.9	2736.2	5573.5	8593.5	11478.3	7201.0
70°	594.5	592.1	547.0	491.0	475.1	442.2	869.8	2043.0	4106.7	5820.8	3349.0
72.5°	526.3	527.5	505.6	432.5	394.7	309.4	403.2	595.7	1225.6	1586.2	784.5
75°	466.6	460.5	433.7	387.4	325.3	203.4	199.8	265.6	377.7	375.2	169.3
77.5°	337.5	331.4	339.9	318.0	249.7	131.6	99.9	127.9	153.5	148.6	47.5
80°	247.3	243.6	219.3	264.4	220.5	90.2	62.1	68.2	79.2	67.0	14.6
82.5°	169.3	168.1	154.7	146.2	125.5	54.8	39.0	42.6	51.2	37.8	7.3
85°	26.8	30.5	112.1	88.9	74.3	24.4	26.8	29.2	34.1	20.7	2.4
87.5°	0.0	0.0	52.4	46.3	14.6	9.7	15.8	17.1	17.1	11.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0	5811.0
2.5°	5833.0	5711.1	5485.8	5253.1	5037.4	4780.4	4603.7	4471.0	4317.5	4276.0	4366.2
5°	5873.2	5642.9	5158.0	4630.5	4134.7	3585.3	3165.0	2832.4	2531.5	2429.2	2521.8
7.5°	5936.5	5594.2	4803.5	3934.9	3072.4	2214.8	1627.6	1241.4	995.3	922.2	961.2
10°	5999.9	5523.5	4393.0	3111.4	1932.1	1078.1	701.7	560.4	508.0	497.0	503.1
12.5°	6052.2	5428.5	3892.3	2212.3	1033.1	577.4	459.3	436.1	428.8	428.8	431.3
15°	6083.9	5284.7	3299.0	1407.1	594.5	436.1	400.8	393.5	393.5	394.7	397.1
17.5°	6080.3	5102.0	2649.7	851.6	444.7	386.2	365.5	359.4	358.2	360.6	361.8
20°	6035.2	4863.2	1997.9	561.6	387.4	352.1	331.4	320.4	319.2	321.6	324.1
22.5°	5949.9	4568.4	1429.0	432.5	349.6	319.2	293.6	283.9	283.9	286.3	288.7
25°	5846.4	4207.8	977.0	366.7	315.5	283.9	259.5	251.0	253.4	259.5	260.7
27.5°	5717.2	3802.1	663.9	314.3	274.1	248.5	230.2	224.2	230.2	238.8	241.2
30°	5606.4	3379.4	473.9	271.7	232.7	214.4	203.4	203.4	212.0	227.8	231.5
32.5°	5521.1	2970.1	365.5	240.0	202.2	186.4	180.3	186.4	199.8	215.6	219.3
35°	5510.1	2632.6	309.4	214.4	180.3	164.5	162.0	173.0	186.4	198.6	201.0
37.5°	5594.2	2320.8	279.0	193.7	160.8	146.2	143.8	157.2	170.6	185.2	188.8
40°	5753.8	2075.9	257.0	174.2	145.0	129.1	124.3	134.0	152.3	171.8	176.6
42.5°	5960.9	1873.7	232.7	154.7	129.1	107.2	101.1	112.1	131.6	152.3	158.4
45°	6158.2	1699.5	205.9	132.8	108.4	82.8	80.4	95.0	104.8	125.5	130.4
47.5°	6266.7	1546.0	182.7	108.4	84.1	67.0	67.0	70.7	80.4	104.8	109.6
50°	6230.1	1422.9	158.4	80.4	58.5	51.2	51.2	49.9	64.6	84.1	87.7
52.5°	6157.0	1352.3	136.4	62.1	40.2	36.5	32.9	36.5	45.1	53.6	54.8
55°	6146.0	1340.1	114.5	49.9	28.0	24.4	18.3	18.3	18.3	17.1	14.6
57.5°	6231.3	1359.6	96.2	40.2	20.7	15.8	9.7	0.0	0.0	0.0	0.0
60°	6319.0	1380.3	82.8	28.0	14.6	8.5	1.2	0.0	0.0	0.0	0.0
62.5°	6172.8	1334.0	69.4	17.1	11.0	3.7	0.0	0.0	0.0	0.0	0.0
65°	5422.4	1135.4	54.8	12.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3857.0	760.2	36.5	7.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1760.4	318.0	23.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	376.4	98.7	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	76.7	71.9	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.4	113.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.6	81.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)