

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: P191717

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191717  
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: GAN-AF-09-LED-U-AFL-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 615mA 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: 28702 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 290  
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

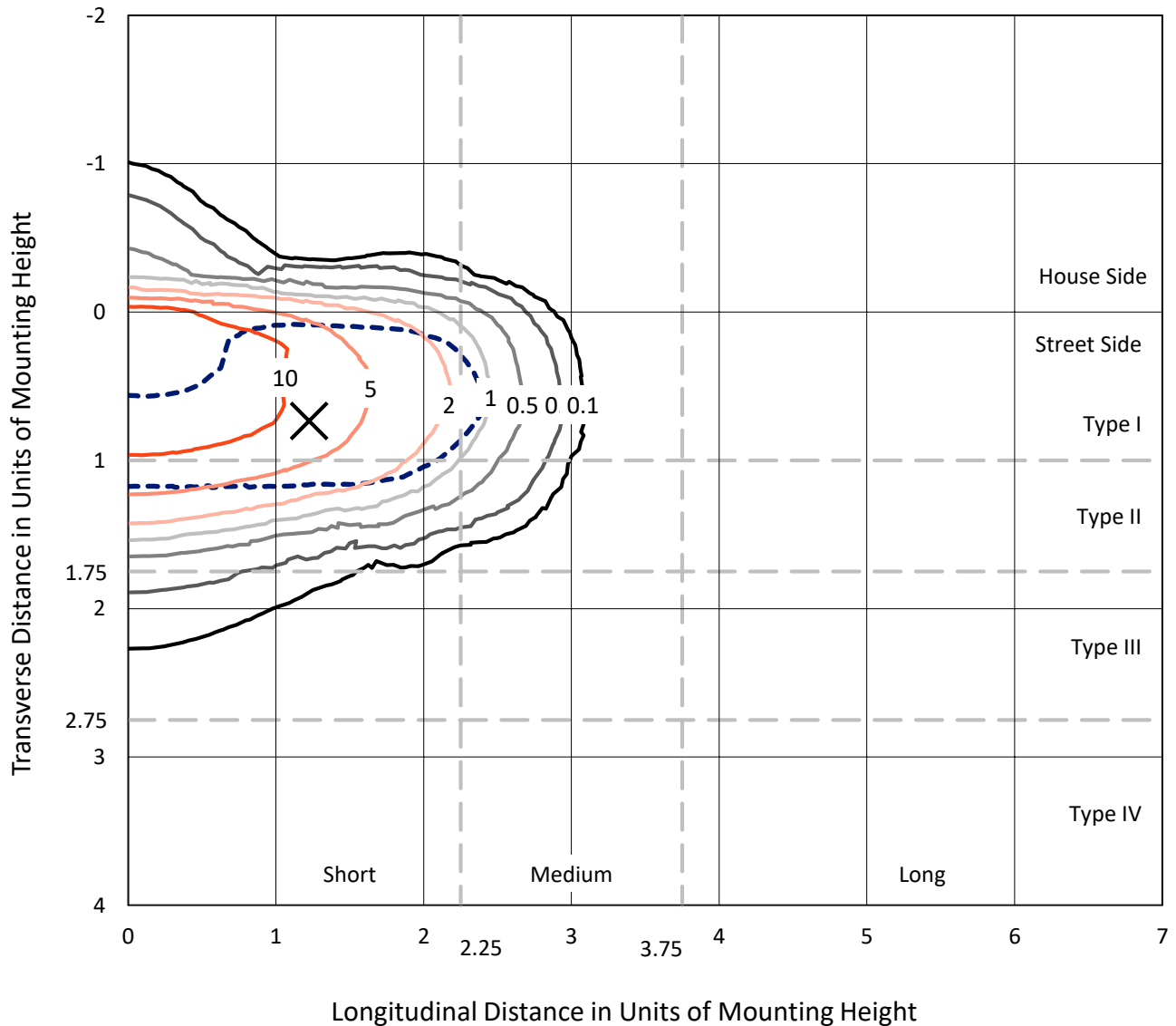


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

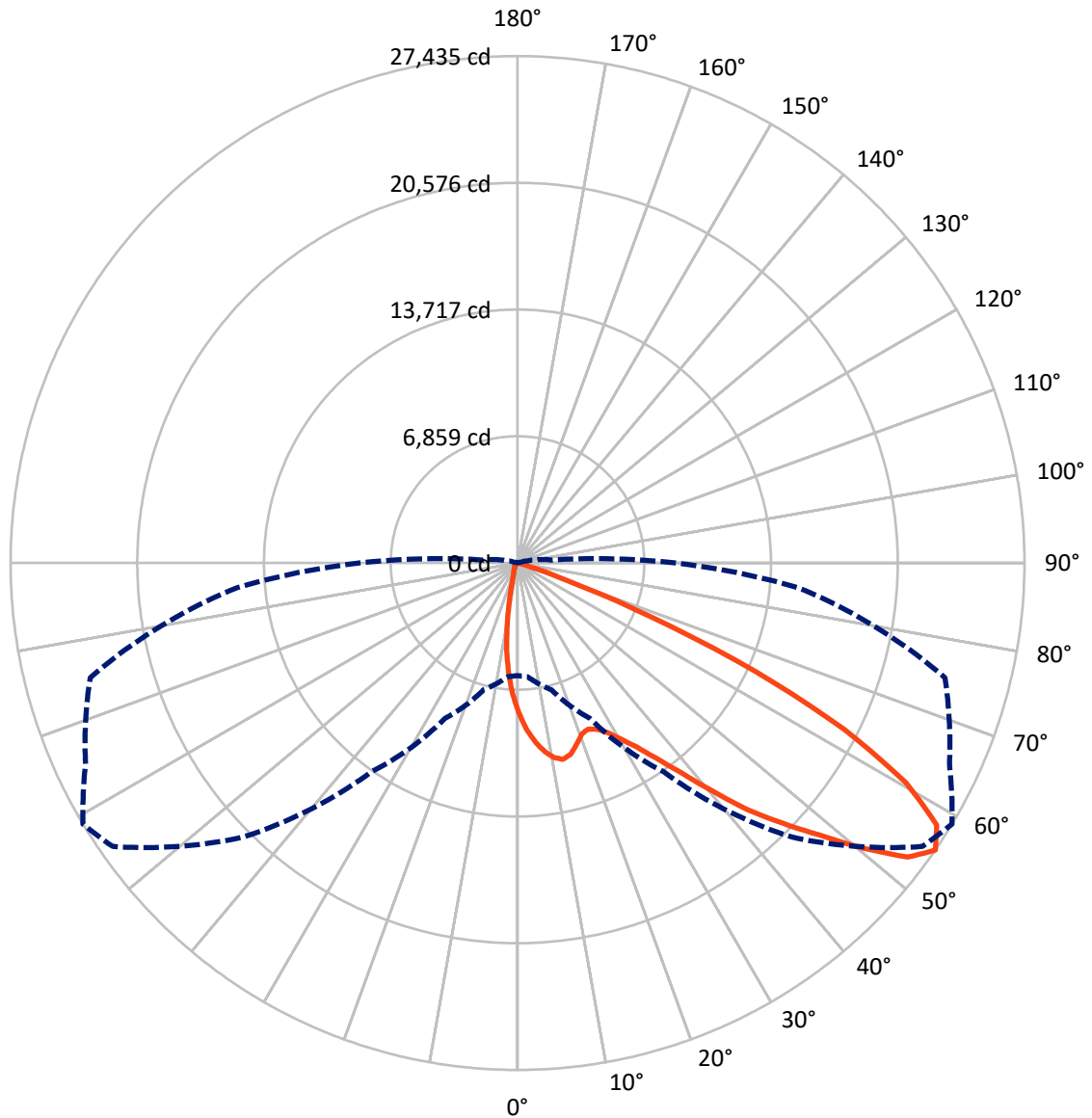


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - Full Cutoff

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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	1603.2	0.0	1603.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	27098.8	0.0	27098.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	28702.0	0.0	28702.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.7	2.4
10°-20°	1620.3	5.6
20°-30°	2757.2	9.6
30°-40°	4741.7	16.5
40°-50°	7320.7	25.5
50°-60°	7359.6	25.6
60°-70°	3774.1	13.1
70°-80°	409.0	1.4
80°-90°	42.8	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°	28702.0	100.0
0°-180°	28702.0	100.0

**Coefficient of Utilization**



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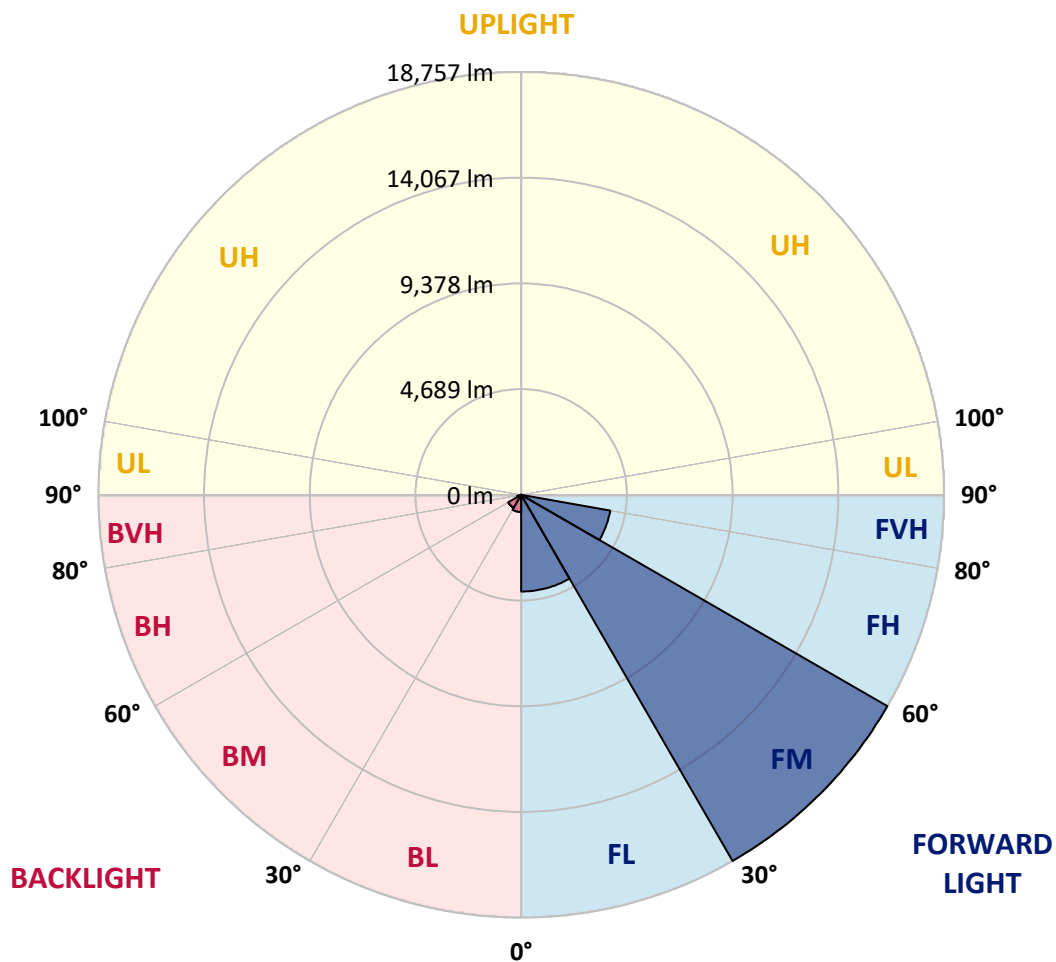
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4289.0	14.9			
FM	(30°-60°)	18756.6	65.3			
FH	(60°-80°)	4011.3	14.0			G2/5000
FVH	(80°-90°)	41.9	0.1			G1/100
BL	(0°-30°)	765.2	2.7	B2/1000		
BM	(30°-60°)	665.3	2.3	B1/1000		
BH	(60°-80°)	171.8	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5
2.5°	9559.9	9458.3	9427.8	9407.5	9314.3	9197.4	9038.2	8963.7	8811.2	8565.6	8264.1
5°	10435.6	10417.0	10349.2	10312.0	10212.0	10046.0	9792.0	9670.0	9427.8	9014.5	8474.2
7.5°	10052.8	10169.7	10262.8	10418.7	10615.2	10608.4	10395.0	10267.9	9996.9	9451.5	8707.9
10°	8574.1	8669.0	8821.4	9175.4	9897.0	10533.9	10784.5	10693.1	10476.3	9852.9	8933.2
12.5°	8284.5	8274.3	8301.4	8404.7	8782.4	9690.3	10718.5	10903.1	10859.1	10220.5	9146.6
15°	8438.6	8426.7	8423.4	8458.9	8550.4	8933.2	10222.2	10752.4	11092.8	10561.0	9327.9
17.5°	8870.5	8819.7	8792.6	8763.8	8736.7	8831.6	9626.0	10330.6	11128.4	10859.1	9478.6
20°	9610.7	9526.0	9426.1	9263.5	9111.0	9063.6	9375.3	9897.0	11001.3	11086.0	9576.8
22.5°	10540.6	10432.2	10259.5	9963.0	9653.1	9473.5	9498.9	9759.8	10811.6	11333.3	9622.6
25°	11585.7	11446.8	11216.5	10804.9	10349.2	10030.8	9864.8	9956.3	10725.3	11623.0	9675.1
27.5°	12705.3	12551.2	12249.7	11689.0	11172.4	10742.2	10403.4	10391.6	10872.6	12002.4	9759.8
30°	13814.8	13791.1	13398.1	12805.3	12121.0	11597.6	11109.7	11047.1	11284.2	12527.5	9927.5
32.5°	15295.2	15117.3	14636.3	14026.5	13237.2	12608.8	12031.2	11885.5	11916.0	13138.9	10186.6
35°	17161.8	16967.0	16289.4	15447.6	14565.1	13823.2	13184.7	12986.5	12912.0	14140.0	10623.6
37.5°	18367.8	18364.4	17939.2	17082.1	16135.3	15317.2	14622.7	14390.7	14239.9	15349.4	11301.2
40°	18399.9	18479.5	18535.4	18527.0	17852.8	17099.1	16482.5	16196.3	15845.7	16965.3	12176.9
42.5°	17412.4	17617.4	18110.3	18947.0	19346.8	19047.0	18527.0	18245.8	17724.1	18694.7	13244.0
45°	16077.7	16220.0	17082.1	18623.5	20156.4	20977.9	20581.6	20078.5	19390.8	20498.6	14201.0
47.5°	15479.8	15505.2	16062.5	17754.6	20217.4	22560.0	22800.5	21982.4	20905.1	21951.9	14949.6
50°	13692.8	13738.6	14507.5	16248.8	19502.6	23306.9	25029.5	24253.8	22556.6	23071.5	15222.3
52.5°	10320.4	10384.8	11360.4	13774.1	17537.8	22988.5	26625.1	26437.1	24365.6	23618.6	15237.6
55°	6089.3	6174.0	7105.6	9272.0	13794.4	20962.7	26743.7	27434.8	25793.5	23942.1	15213.9
57.5°	2843.9	2903.2	3436.8	4776.6	8579.2	16567.2	24958.4	26750.5	26581.1	24113.2	15381.6
60°	1510.9	1527.8	1656.6	2068.2	3877.1	10505.1	21474.2	24155.5	25862.9	24350.3	15586.5
62.5°	1155.2	1160.3	1153.5	1202.6	1629.5	4663.1	16231.9	19858.3	22971.6	24172.5	15359.5
65°	1001.0	1009.5	962.1	950.2	1045.1	1663.3	9642.9	14155.2	18051.0	21772.3	13813.1
67.5°	897.7	901.1	843.5	794.4	811.3	899.4	3804.3	7749.2	11948.2	15959.1	10012.2
70°	826.6	823.2	760.5	682.6	660.6	614.9	1209.4	2840.5	5709.9	8093.1	4656.3
72.5°	731.7	733.4	702.9	601.3	548.8	430.2	560.7	828.3	1704.0	2205.4	1090.8
75°	648.7	640.3	603.0	538.6	452.2	282.9	277.8	369.3	525.1	521.7	235.4
77.5°	469.2	460.7	472.6	442.1	347.2	182.9	138.9	177.9	213.4	206.6	66.1
80°	343.8	338.8	304.9	367.6	306.6	125.3	86.4	94.9	110.1	93.2	20.3
82.5°	235.4	233.7	215.1	203.3	174.5	76.2	54.2	59.3	71.1	52.5	10.2
85°	37.3	42.3	155.8	123.6	103.3	33.9	37.3	40.7	47.4	28.8	3.4
87.5°	0.0	0.0	72.8	64.4	20.3	13.6	22.0	23.7	23.7	15.2	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°	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5	8079.5
2.5°	8110.0	7940.6	7627.3	7303.7	7003.9	6646.5	6400.9	6216.3	6002.9	5945.3	6070.6
5°	8165.9	7845.8	7171.6	6438.2	5748.8	4984.9	4400.5	3938.1	3519.8	3377.5	3506.2
7.5°	8254.0	7778.0	6678.7	5471.0	4271.8	3079.4	2262.9	1726.0	1383.8	1282.2	1336.4
10°	8342.1	7679.8	6107.9	4326.0	2686.4	1499.0	975.6	779.2	706.3	691.1	699.5
12.5°	8414.9	7547.7	5411.7	3076.0	1436.4	802.9	638.6	606.4	596.2	596.2	599.6
15°	8458.9	7347.8	4586.9	1956.4	826.6	606.4	557.3	547.1	547.1	548.8	552.2
17.5°	8453.8	7093.7	3684.1	1184.0	618.2	536.9	508.1	499.7	498.0	501.4	503.1
20°	8391.2	6761.7	2777.9	780.8	538.6	489.5	460.7	445.5	443.8	447.2	450.6
22.5°	8272.6	6351.8	1986.8	601.3	486.1	443.8	408.2	394.7	394.7	398.0	401.4
25°	8128.6	5850.4	1358.4	509.8	438.7	394.7	360.8	348.9	352.3	360.8	362.5
27.5°	7949.1	5286.4	923.1	437.0	381.1	345.5	320.1	311.7	320.1	332.0	335.4
30°	7794.9	4698.6	658.9	377.7	323.5	298.1	282.9	282.9	294.7	316.7	321.8
32.5°	7676.4	4129.5	508.1	333.7	281.2	259.2	250.7	259.2	277.8	299.8	304.9
35°	7661.1	3660.3	430.2	298.1	250.7	228.7	225.3	240.5	259.2	276.1	279.5
37.5°	7778.0	3226.7	387.9	269.3	223.6	203.3	199.9	218.5	237.1	257.5	262.5
40°	7999.9	2886.3	357.4	242.2	201.6	179.5	172.8	186.3	211.7	238.8	245.6
42.5°	8287.8	2605.1	323.5	215.1	179.5	149.1	140.6	155.8	182.9	211.7	220.2
45°	8562.2	2362.9	286.3	184.6	150.7	115.2	111.8	132.1	145.7	174.5	181.2
47.5°	8713.0	2149.5	254.1	150.7	116.9	93.2	93.2	98.2	111.8	145.7	152.4
50°	8662.2	1978.4	220.2	111.8	81.3	71.1	71.1	69.4	89.8	116.9	122.0
52.5°	8560.6	1880.1	189.7	86.4	55.9	50.8	45.7	50.8	62.7	74.5	76.2
55°	8545.3	1863.2	159.2	69.4	39.0	33.9	25.4	25.4	25.4	23.7	20.3
57.5°	8663.9	1890.3	133.8	55.9	28.8	22.0	13.6	0.0	0.0	0.0	0.0
60°	8785.8	1919.1	115.2	39.0	20.3	11.9	1.7	0.0	0.0	0.0	0.0
62.5°	8582.6	1854.7	96.5	23.7	15.2	5.1	0.0	0.0	0.0	0.0	0.0
65°	7539.2	1578.6	76.2	16.9	10.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5362.6	1056.9	50.8	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2447.6	442.1	32.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	523.4	137.2	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	106.7	99.9	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.9	157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.3	113.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	16.9	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)