

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: P455940

Luminaire Tested: **GLAN-SA7A-830-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-830-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20938 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

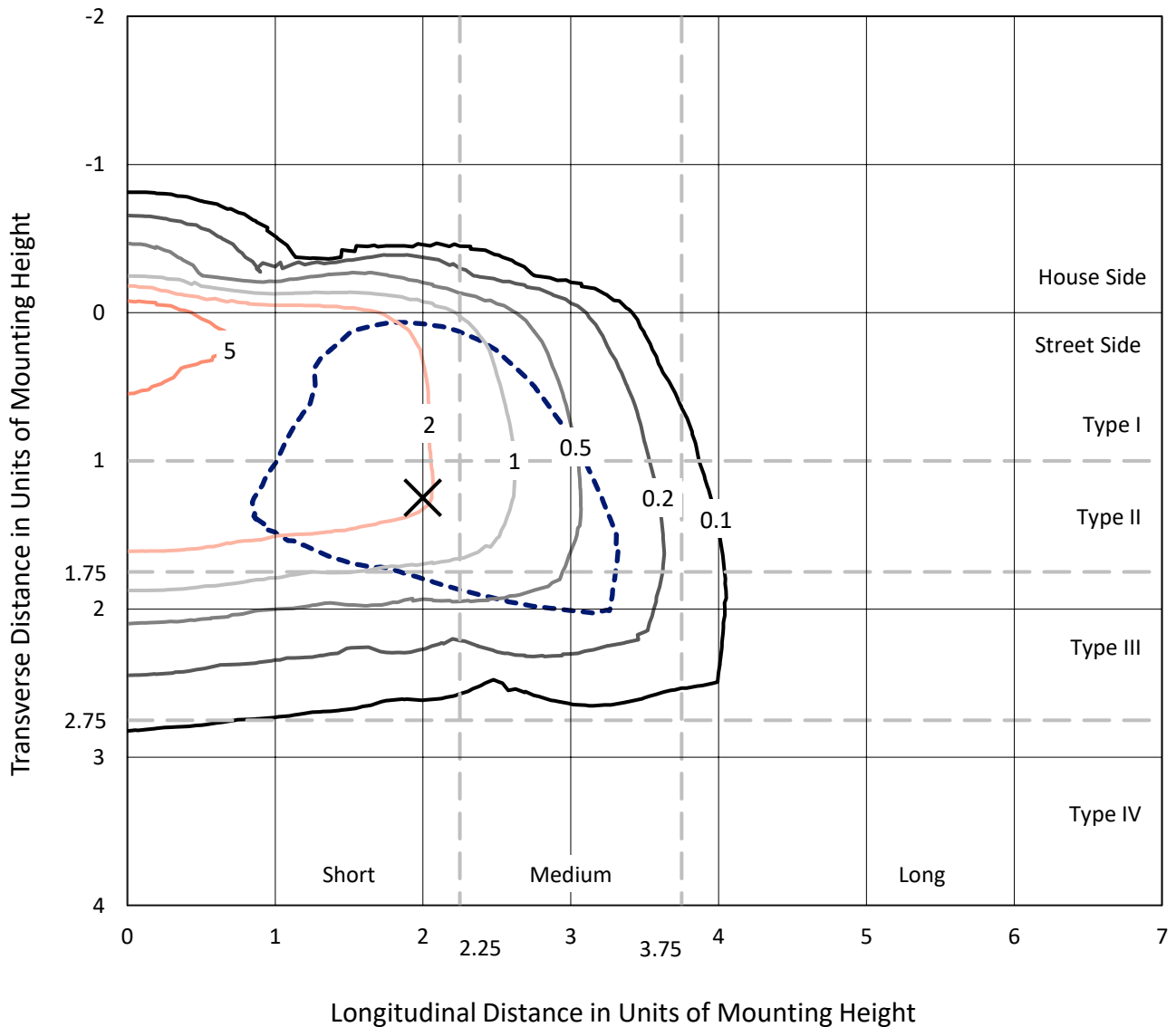
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

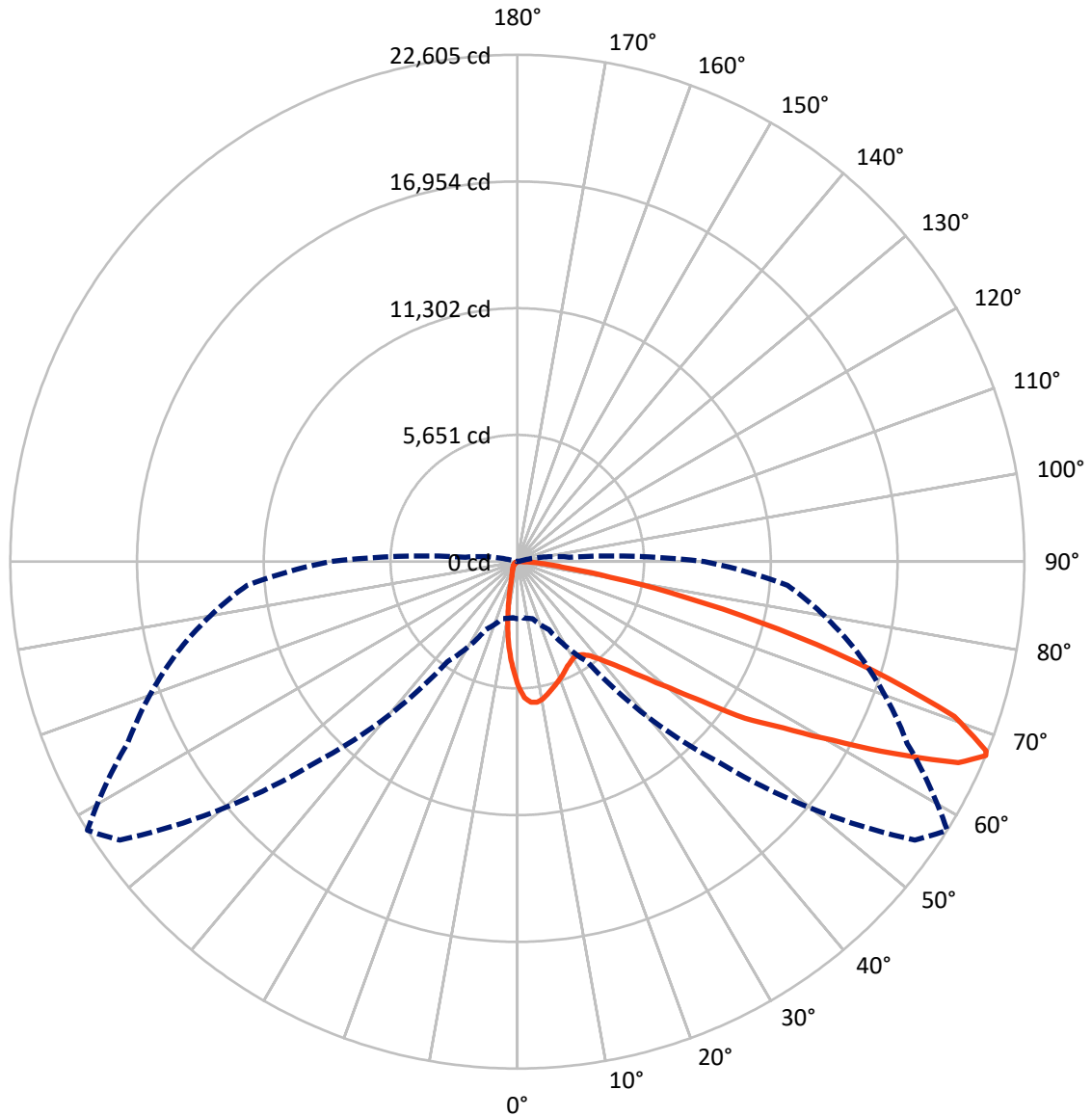
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1511.0	0.0	1511.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	19427.0	0.0	19427.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	20938.0	0.0	20938.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.4	2.2
10°-20°	972.8	4.6
20°-30°	1318.2	6.3
30°-40°	1828.2	8.7
40°-50°	2915.8	13.9
50°-60°	5040.2	24.1
60°-70°	5757.5	27.5
70°-80°	2400.4	11.5
80°-90°	254.5	1.2
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°	20938.0	100.0
0°-180°	20938.0	100.0

**Coefficient of Utilization**



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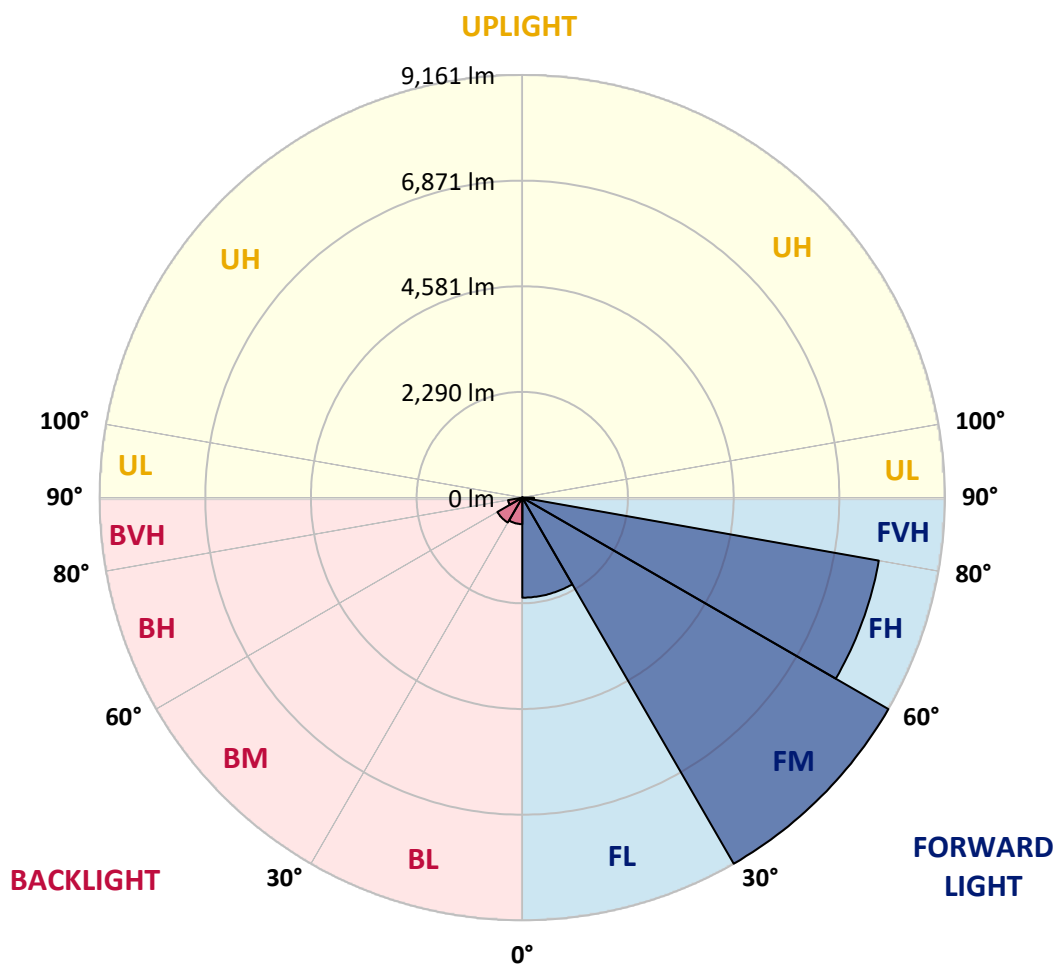
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.6	10.4			
FM (30°-60°)	9161.2	43.8			
FH (60°-80°)	7845.5	37.5			G4/12000
FVH (80°-90°)	252.7	1.2			G3/500
BL (0°-30°)	573.8	2.7	B2/1000		
BM (30°-60°)	623.0	3.0	B1/1000		
BH (60°-80°)	312.4	1.5	B1/500		G1/500
BVH (80°-90°)	1.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5
2.5°	6441.7	6451.5	6415.2	6385.8	6310.2	6229.1	6121.3	6064.0	5966.0	5796.7	5609.2
5°	6592.8	6605.4	6599.8	6592.8	6563.5	6485.1	6348.0	6297.6	6153.5	5877.9	5539.3
7.5°	6257.0	6303.2	6308.8	6363.4	6415.2	6422.1	6370.4	6332.6	6199.7	5876.5	5414.8
10°	5812.1	5842.9	5887.7	5950.6	6075.2	6178.7	6229.1	6223.5	6146.5	5833.1	5269.2
12.5°	5363.0	5379.8	5448.3	5556.1	5708.6	5884.9	6019.2	6045.8	6047.2	5781.3	5147.5
15°	4976.8	4969.8	5023.0	5147.5	5361.6	5582.7	5823.3	5865.3	5932.4	5731.0	5034.2
17.5°	4646.6	4683.0	4691.4	4828.5	5025.8	5312.6	5619.0	5693.2	5827.5	5687.6	4940.4
20°	4442.3	4461.9	4480.1	4557.1	4734.8	5037.0	5427.3	5529.5	5729.6	5648.4	4835.5
22.5°	4382.2	4394.8	4379.4	4403.2	4529.1	4797.7	5218.9	5354.6	5635.8	5612.0	4750.2
25°	4428.3	4440.9	4404.6	4376.6	4419.9	4603.2	5017.4	5182.5	5560.3	5605.0	4685.8
27.5°	4540.3	4564.1	4513.7	4463.3	4438.1	4498.3	4859.3	5051.0	5508.5	5638.6	4656.4
30°	4715.2	4729.2	4691.4	4629.8	4572.5	4512.3	4776.7	4960.0	5494.5	5717.0	4653.6
32.5°	4905.5	4934.8	4913.9	4873.3	4799.1	4656.4	4800.5	4962.8	5528.1	5830.3	4688.6
35°	5140.5	5174.1	5193.7	5185.3	5090.1	4912.5	4951.6	5088.7	5617.6	6038.8	4783.7
37.5°	5371.4	5400.8	5511.3	5549.1	5465.1	5297.2	5245.5	5336.4	5814.9	6311.6	4955.8
40°	5635.8	5675.0	5830.3	5974.4	5933.8	5757.5	5662.4	5738.0	6117.1	6723.0	5281.8
42.5°	5889.1	5959.0	6195.5	6450.1	6487.9	6290.6	6227.7	6252.9	6564.9	7314.8	5736.6
45°	6248.7	6314.4	6619.4	6965.0	7142.7	6988.8	6924.4	6920.3	7179.1	8147.3	6473.9
47.5°	6767.7	6826.5	7186.1	7527.5	7843.7	7864.7	7743.0	7784.9	7951.4	9121.1	7377.8
50°	7404.4	7542.9	7779.3	8134.7	8557.3	8898.7	8936.4	8880.5	9023.2	10248.9	8463.5
52.5°	8329.2	8382.4	8599.2	8891.7	9387.0	9966.2	10415.4	10338.4	10293.6	11323.4	9560.5
55°	9019.0	9090.3	9427.5	9829.1	10555.3	11319.2	12293.0	12319.6	11754.4	12356.0	10633.6
57.5°	8810.5	8919.7	9430.3	10237.7	11834.1	13230.5	13955.2	13973.4	13105.9	13359.2	11845.3
60°	7740.2	7791.9	8523.7	9601.0	11943.2	15301.2	16312.8	16165.9	14481.3	14481.3	12915.7
62.5°	5488.9	5570.1	6163.3	7748.6	10786.1	16020.4	19136.3	18832.7	16375.8	15554.5	13553.7
65°	3507.7	3429.3	3822.5	4891.5	8035.4	14958.4	21594.7	21612.8	18158.3	15984.0	13205.3
67°	2540.9	2510.1	2623.4	3344.0	5448.3	12574.3	21646.4	22604.8	19182.5	15712.6	12091.5
67.5°	2324.0	2347.8	2430.3	3016.6	4950.2	11442.3	21411.4	22546.1	19413.4	15548.9	11688.6
70°	1761.5	1721.0	1810.5	2133.7	2967.6	7218.3	18418.6	20678.2	19126.5	13924.4	9339.4
72.5°	1295.6	1291.4	1416.0	1744.8	2284.8	3844.9	13826.5	16580.1	15625.8	10602.8	5880.7
75°	874.5	913.7	1112.3	1457.9	2070.8	2493.3	9426.1	12028.6	10847.7	6020.6	2403.8
77.5°	498.1	500.9	716.4	1171.1	1859.5	2006.4	5585.5	7663.2	5742.2	2002.2	713.6
80°	215.5	236.5	355.4	850.7	1541.9	1776.9	3202.7	4211.5	2322.6	423.9	230.9
82.5°	79.8	93.7	156.7	523.3	1124.9	1463.5	1935.0	2010.6	787.7	149.7	144.1
85°	0.0	2.8	57.4	244.9	586.2	653.4	1292.8	1192.1	348.4	71.4	93.7
87.5°	0.0	0.0	0.0	25.2	77.0	243.5	401.6	447.7	83.9	25.2	22.4
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°	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5	5550.5
2.5°	5508.5	5417.6	5189.5	4961.4	4792.1	4650.8	4438.1	4322.0	4260.4	4169.5	4175.1
5°	5370.0	5185.3	4783.7	4368.2	4032.4	3705.0	3313.2	3155.1	3022.2	2946.6	2896.3
7.5°	5164.3	4891.5	4296.8	3742.8	3226.5	2654.2	2224.7	1937.8	1744.8	1673.4	1604.8
10°	4939.0	4576.7	3802.9	3034.8	2318.4	1728.0	1364.2	1101.1	1007.4	920.6	929.0
12.5°	4730.6	4289.8	3349.6	2395.4	1624.4	1098.3	856.3	748.6	717.8	708.0	708.0
15°	4559.9	4015.6	2862.7	1800.7	1113.7	789.1	685.6	656.2	645.0	642.2	642.2
17.5°	4378.0	3755.3	2423.3	1330.6	810.1	660.4	625.4	605.8	601.6	598.8	598.8
20°	4215.7	3493.7	2006.4	990.6	654.8	594.6	572.3	559.7	555.5	552.7	554.1
22.5°	4061.8	3261.4	1614.6	748.6	576.5	541.5	519.1	506.5	498.1	491.1	492.5
25°	3924.6	3037.6	1298.4	612.8	519.1	488.3	465.9	447.7	429.5	421.1	419.7
27.5°	3828.1	2841.7	1011.6	524.7	467.3	433.7	405.8	383.4	359.6	347.0	344.2
30°	3748.4	2643.0	800.3	463.1	415.6	383.4	348.4	316.2	291.0	278.4	272.8
32.5°	3696.6	2454.1	631.0	412.8	372.2	333.0	293.8	261.6	233.7	221.1	218.3
35°	3688.2	2296.0	516.3	370.8	333.0	291.0	250.4	215.5	191.7	179.1	176.3
37.5°	3748.4	2174.3	432.3	337.2	300.8	254.6	209.9	177.7	156.7	146.9	145.5
40°	3909.3	2097.3	375.0	309.2	271.4	221.1	179.1	151.1	130.1	120.3	120.3
42.5°	4215.7	2100.1	337.2	282.6	242.1	188.9	152.5	125.9	107.7	99.3	96.5
45°	4694.2	2195.3	305.0	256.0	214.1	163.7	130.1	103.5	85.3	78.4	78.4
47.5°	5335.0	2384.2	277.0	229.5	188.9	139.9	110.5	83.9	68.6	61.6	61.6
50°	6173.1	2687.8	253.2	207.1	167.9	120.3	89.5	68.6	53.2	47.6	46.2
52.5°	7049.0	3062.8	225.3	187.5	144.1	102.1	72.8	53.2	40.6	36.4	35.0
55°	8015.8	3429.3	198.7	167.9	117.5	85.3	57.4	42.0	29.4	25.2	25.2
57.5°	8991.0	3788.9	166.5	139.9	92.3	63.0	44.8	30.8	19.6	15.4	15.4
60°	9816.5	3905.1	141.3	113.3	70.0	44.8	32.2	19.6	11.2	7.0	7.0
62.5°	9929.8	3513.3	118.9	86.7	50.4	30.8	16.8	11.2	4.2	2.8	2.8
65°	9314.2	2854.3	99.3	65.8	33.6	15.4	7.0	4.2	1.4	0.0	0.0
67°	8346.0	2314.2	81.2	49.0	23.8	9.8	4.2	1.4	0.0	0.0	0.0
67.5°	8098.3	2206.5	78.4	46.2	21.0	8.4	2.8	1.4	0.0	0.0	0.0
70°	6355.0	1652.4	56.0	28.0	12.6	5.6	0.0	0.0	0.0	0.0	0.0
72.5°	3949.8	934.6	40.6	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0
75°	1492.9	327.4	28.0	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	464.5	124.5	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.7	47.6	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.5	19.6	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.2	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	2.8	1.4	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)