

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: P323152

Luminaire Tested: **GAN-SA8A-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28172 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

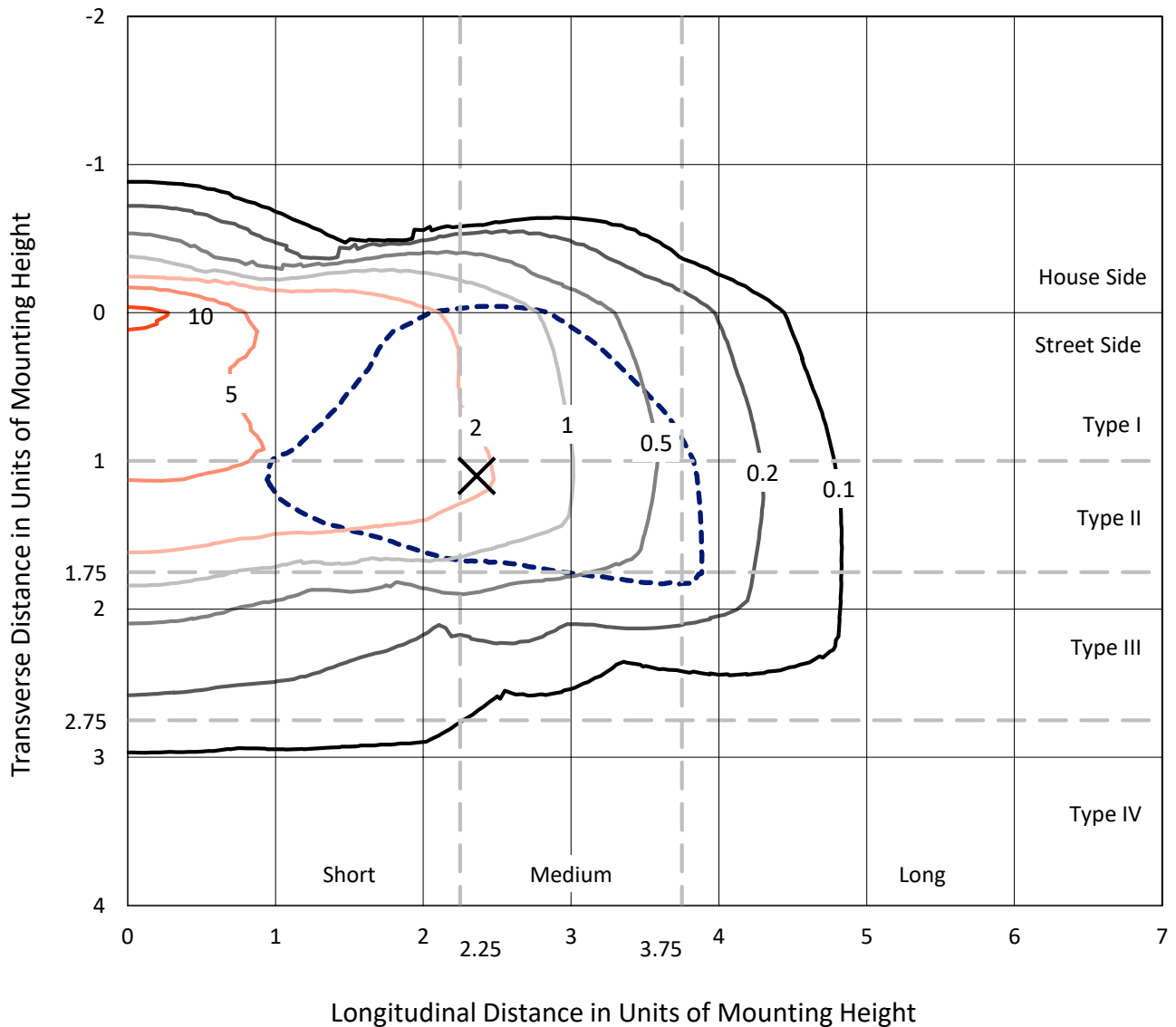
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

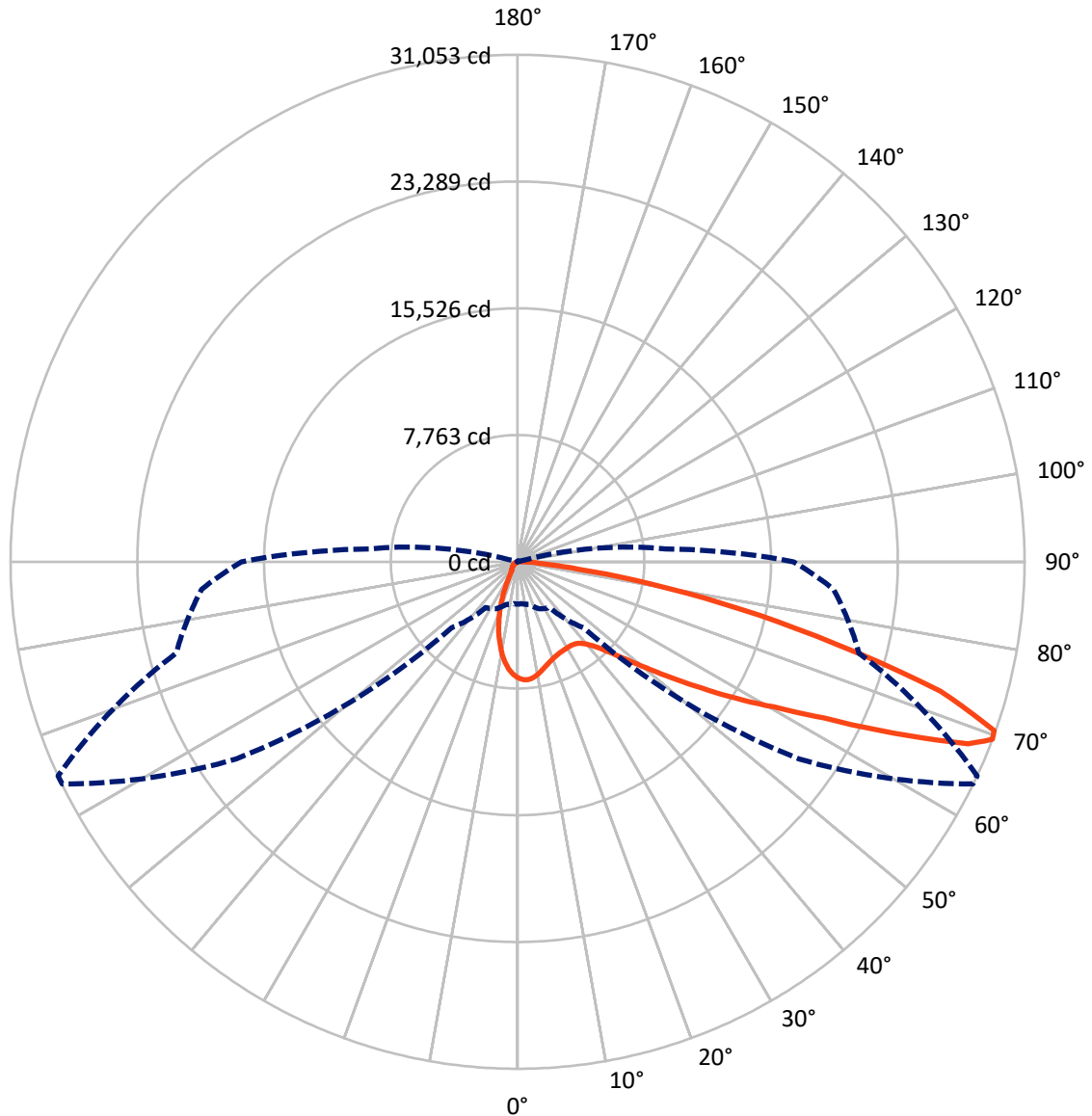
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3320.8	0.0	3320.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	24851.2	0.0	24851.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	28172.0	0.0	28172.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.3	2.1
10°-20°	1303.2	4.6
20°-30°	1804.9	6.4
30°-40°	2516.6	8.9
40°-50°	3911.7	13.9
50°-60°	6279.7	22.3
60°-70°	7103.4	25.2
70°-80°	4171.9	14.8
80°-90°	485.3	1.7
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°	28172.0	100.0
0°-180°	28172.0	100.0

**Coefficient of Utilization**

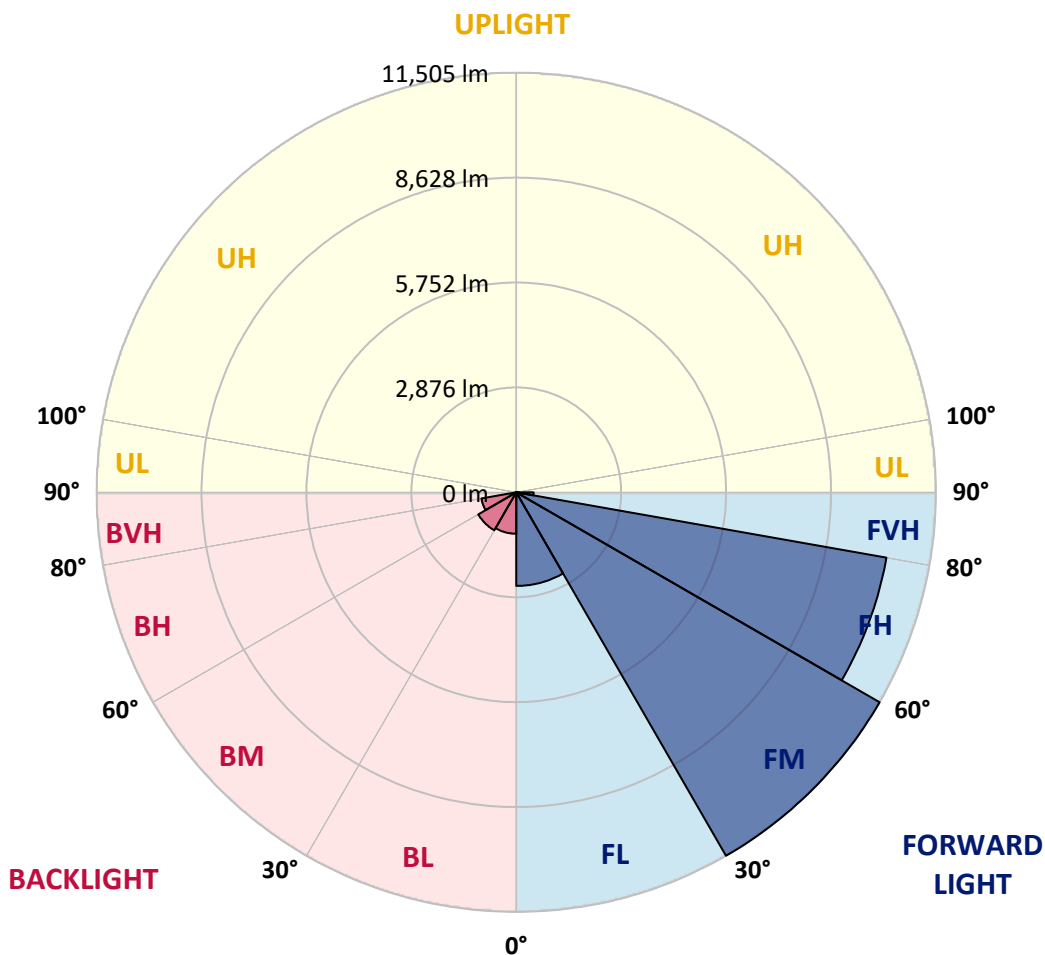


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.1	9.1			
FM (30°-60°)	11504.6	40.8			
FH (60°-80°)	10305.0	36.6			G4/12000
FVH (80°-90°)	474.4	1.7			G3/500
BL (0°-30°)	1136.2	4.0	B3/2500		
BM (30°-60°)	1203.4	4.3	B2/2500		
BH (60°-80°)	970.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1
2.5°	7182.3	7164.4	7178.7	7209.7	7225.2	7225.2	7237.1	7222.8	7227.6	7193.0	7143.0
5°	6732.9	6705.5	6744.8	6831.8	6939.1	7030.9	7166.8	7238.3	7245.5	7246.7	7188.3
7.5°	6248.9	6223.9	6282.3	6384.8	6523.1	6693.5	6930.8	7138.2	7150.1	7262.2	7219.2
10°	5855.5	5837.6	5905.6	6015.2	6177.4	6368.1	6659.0	6947.5	6982.0	7230.0	7214.5
12.5°	5543.2	5528.9	5593.2	5719.6	5885.3	6096.3	6400.3	6735.3	6781.8	7157.3	7190.6
15°	5315.5	5313.1	5366.8	5488.3	5671.9	5868.6	6179.8	6538.6	6592.2	7078.6	7187.1
17.5°	5196.3	5199.9	5239.2	5342.9	5500.3	5695.8	5993.8	6372.9	6431.3	7008.3	7204.9
20°	5184.4	5187.9	5209.4	5267.8	5395.4	5568.2	5842.4	6233.4	6294.2	6955.8	7233.6
22.5°	5289.3	5286.9	5292.8	5286.9	5358.4	5489.5	5742.3	6126.1	6196.4	6921.2	7256.2
25°	5490.7	5487.2	5484.8	5440.7	5393.0	5463.3	5700.5	6065.3	6132.1	6896.2	7269.3
27.5°	5770.9	5768.5	5764.9	5692.2	5549.1	5505.0	5705.3	6042.7	6098.7	6875.9	7266.9
30°	6139.2	6155.9	6151.1	6049.8	5826.9	5632.6	5755.4	6030.7	6079.6	6836.6	7241.9
32.5°	6571.9	6605.3	6631.6	6523.1	6244.1	5885.3	5871.0	6043.9	6079.6	6806.8	7196.6
35°	7021.4	7064.3	7160.8	7122.7	6755.5	6265.6	6070.1	6122.5	6152.3	6823.5	7175.1
37.5°	7463.6	7514.9	7724.7	7835.6	7425.5	6768.6	6380.0	6316.8	6332.3	6924.8	7199.0
40°	7977.4	8054.9	8373.2	8552.0	8225.4	7442.2	6843.7	6650.6	6656.6	7147.7	7309.8
42.5°	8652.1	8732.0	9076.5	9356.7	9126.6	8293.3	7473.2	7160.8	7154.9	7565.0	7570.9
45°	9474.7	9558.1	9914.5	10225.7	10122.0	9301.8	8279.0	7905.9	7898.7	8223.0	8065.6
47.5°	10406.9	10489.1	10807.4	11128.1	11240.1	10479.6	9305.4	8922.7	8906.0	9137.3	8829.8
50°	11206.8	11260.4	11553.7	11985.2	12490.6	11926.8	10582.1	10213.8	10195.9	10352.0	9951.5
52.5°	11497.6	11528.6	11826.6	12431.0	13692.3	13886.6	12259.4	11784.9	11771.8	11839.8	11445.2
55°	10908.7	10964.8	11330.7	12227.2	14343.1	16101.5	14376.5	13730.4	13631.5	13484.8	13006.8
57.5°	9304.2	9393.6	9787.0	10979.1	14039.1	17858.6	17487.8	15931.0	15785.5	14889.1	14276.4
60°	6971.3	7081.0	7407.6	8693.9	12416.7	18484.4	20887.7	18383.1	18055.3	16007.3	15443.4
62.5°	4783.8	4838.7	5060.4	5898.4	9144.5	17459.2	23732.0	21667.3	21068.9	17223.2	16705.8
65°	3653.7	3672.8	3763.4	4051.9	5445.4	14182.2	24863.3	26000.5	25276.9	18677.5	18015.9
67.5°	2944.4	2928.9	3054.1	3466.6	3646.6	8652.1	23543.6	30100.1	29761.5	20621.8	19334.4
69°	2596.4	2574.9	2702.4	3181.7	3424.9	5719.6	21047.4	31031.1	31052.5	21648.2	19425.0
70°	2336.5	2350.8	2477.1	3012.4	3349.8	4489.4	18663.2	30793.9	30963.1	22032.1	18881.4
72.5°	1560.4	1598.6	1852.5	2501.0	3221.0	3397.4	11268.8	26424.9	27075.8	21167.8	16199.2
75°	879.8	908.4	1210.0	1885.9	3035.0	3235.3	5952.1	19467.9	20097.3	17701.2	12491.8
77.5°	431.5	447.0	684.3	1217.1	2537.9	3082.7	3376.0	13223.8	13942.6	11553.7	7065.5
80°	182.4	190.7	342.1	751.0	1814.3	2942.1	2506.9	8138.3	8227.8	4526.3	1882.3
82.5°	70.3	72.7	144.2	468.5	1152.7	2293.6	2096.9	3858.8	3765.8	852.3	429.1
85°	8.3	9.5	52.5	281.3	641.3	1180.2	1703.5	1663.0	1539.0	169.3	220.5
87.5°	0.0	0.0	3.6	85.8	190.7	553.1	885.7	690.2	622.3	54.8	114.4
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°	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1	7119.1
2.5°	7101.2	7089.3	7024.9	6932.0	6843.7	6734.1	6629.2	6566.0	6515.9	6482.5	6521.9
5°	7120.3	7067.9	6872.4	6622.0	6376.4	6099.9	5842.4	5624.2	5538.4	5443.0	5486.0
7.5°	7114.3	7015.4	6663.7	6217.9	5767.3	5301.2	4860.1	4520.4	4343.9	4171.1	4215.2
10°	7084.5	6917.7	6384.8	5724.4	5049.7	4379.7	3753.9	3278.2	3012.4	2771.6	2806.2
12.5°	7019.0	6786.5	6055.8	5159.3	4256.9	3373.6	2640.5	2031.3	1704.7	1560.4	1578.3
15°	6979.6	6659.0	5707.7	4587.1	3410.5	2349.6	1614.1	1200.4	1051.4	1003.7	1009.7
17.5°	6960.6	6536.2	5347.7	3932.7	2545.1	1496.1	1043.1	920.3	888.1	879.8	882.1
20°	6941.5	6412.2	4976.9	3285.4	1753.6	1006.1	857.1	821.3	809.4	798.7	801.1
22.5°	6909.3	6293.0	4578.8	2629.7	1182.5	816.6	772.5	737.9	712.9	699.8	702.1
25°	6870.0	6167.8	4172.3	1958.6	863.1	728.4	686.6	637.8	608.0	584.1	585.3
27.5°	6806.8	6014.1	3752.7	1425.7	724.8	652.1	596.0	542.4	492.3	464.9	464.9
30°	6718.6	5840.0	3286.6	1020.4	649.7	577.0	509.0	442.3	388.6	363.6	361.2
32.5°	6620.8	5658.8	2815.7	773.7	590.1	506.6	429.1	358.8	311.1	290.9	289.7
35°	6537.4	5463.3	2346.0	648.5	530.5	438.7	354.0	294.4	256.3	239.6	238.4
37.5°	6483.7	5267.8	1888.3	579.4	476.8	375.5	296.8	243.2	215.8	202.7	201.5
40°	6475.4	5122.4	1469.8	526.9	426.8	319.5	248.0	206.2	181.2	166.9	165.7
42.5°	6583.9	5038.9	1127.7	482.8	375.5	270.6	211.0	176.4	150.2	135.9	134.7
45°	6868.8	5065.2	867.8	443.5	324.2	228.9	178.8	146.6	122.8	112.1	109.7
47.5°	7388.5	5246.4	690.2	404.1	275.4	194.3	152.6	121.6	101.3	90.6	89.4
50°	8313.6	5671.9	577.0	361.2	230.1	165.7	126.4	98.9	82.3	72.7	71.5
52.5°	9541.4	6430.1	515.0	319.5	190.7	140.7	103.7	78.7	64.4	57.2	56.0
55°	10895.6	7348.0	474.4	274.2	156.2	116.8	82.3	62.0	50.1	44.1	41.7
57.5°	12217.6	8143.1	436.3	230.1	129.9	95.4	65.6	48.9	39.3	33.4	32.2
60°	13432.4	8873.9	392.2	184.8	106.1	75.1	51.3	38.1	31.0	25.0	25.0
62.5°	14732.9	9438.9	331.4	144.2	87.0	57.2	41.7	34.6	25.0	21.5	20.3
65°	16111.0	9858.5	259.9	112.1	67.9	42.9	34.6	35.8	20.3	15.5	14.3
67.5°	17129.0	9775.1	191.9	88.2	52.5	33.4	33.4	38.1	17.9	11.9	10.7
69°	16904.9	9096.8	160.9	76.3	45.3	28.6	31.0	38.1	16.7	10.7	9.5
70°	16255.2	8345.8	141.9	67.9	40.5	26.2	29.8	37.0	15.5	10.7	9.5
72.5°	13537.3	6285.8	110.9	51.3	32.2	21.5	25.0	32.2	15.5	10.7	8.3
75°	10182.8	4023.3	84.6	37.0	23.8	16.7	19.1	23.8	15.5	9.5	8.3
77.5°	5540.8	1450.8	60.8	25.0	16.7	13.1	13.1	17.9	14.3	7.2	4.8
80°	1424.5	364.8	38.1	16.7	13.1	9.5	8.3	11.9	8.3	1.2	0.0
82.5°	351.7	82.3	20.3	11.9	9.5	3.6	3.6	6.0	3.6	0.0	0.0
85°	193.1	40.5	13.1	8.3	4.8	0.0	0.0	1.2	0.0	0.0	0.0
87.5°	98.9	11.9	3.6	2.4	1.2	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)