

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: P192777

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 28086.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

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

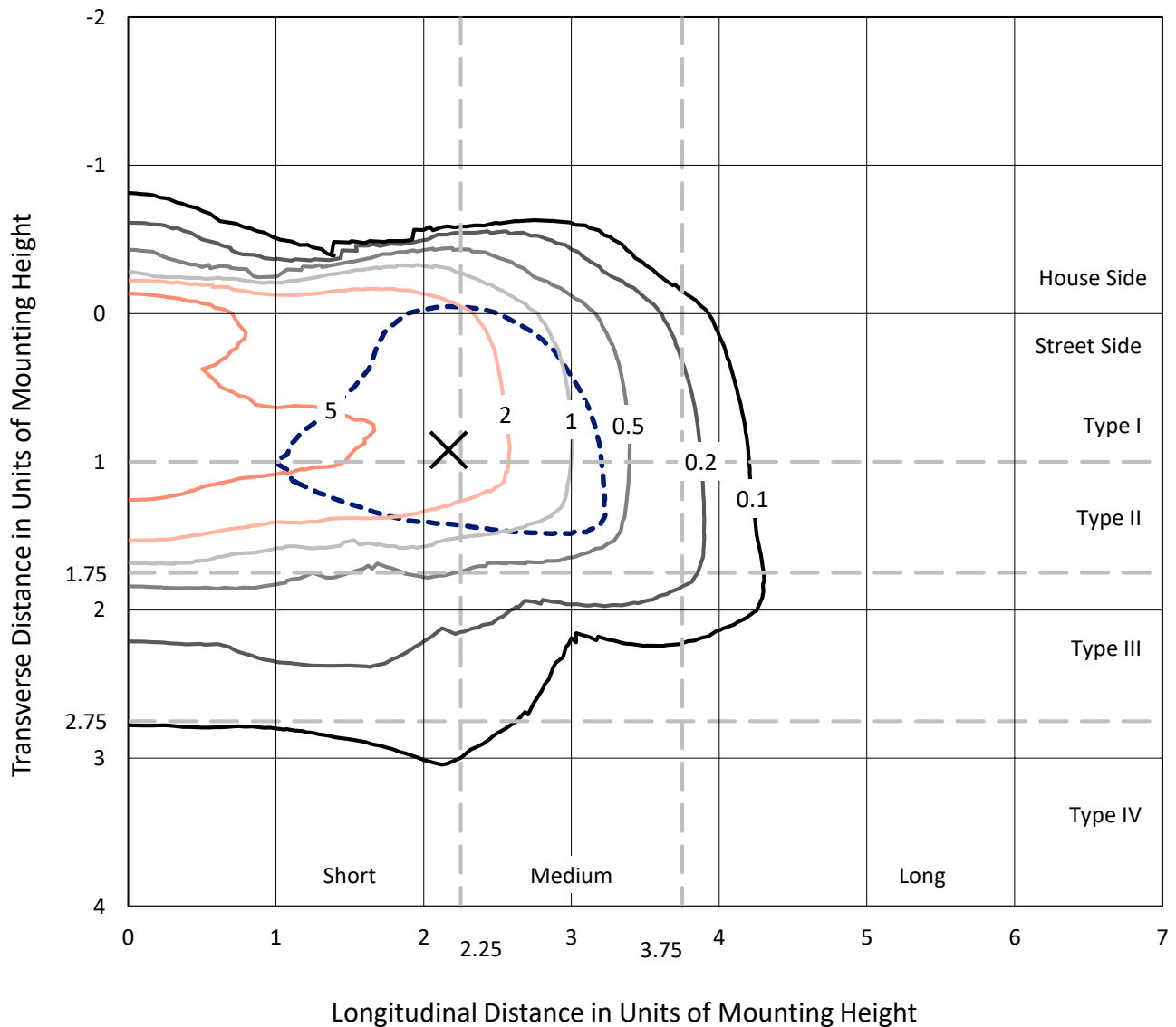


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

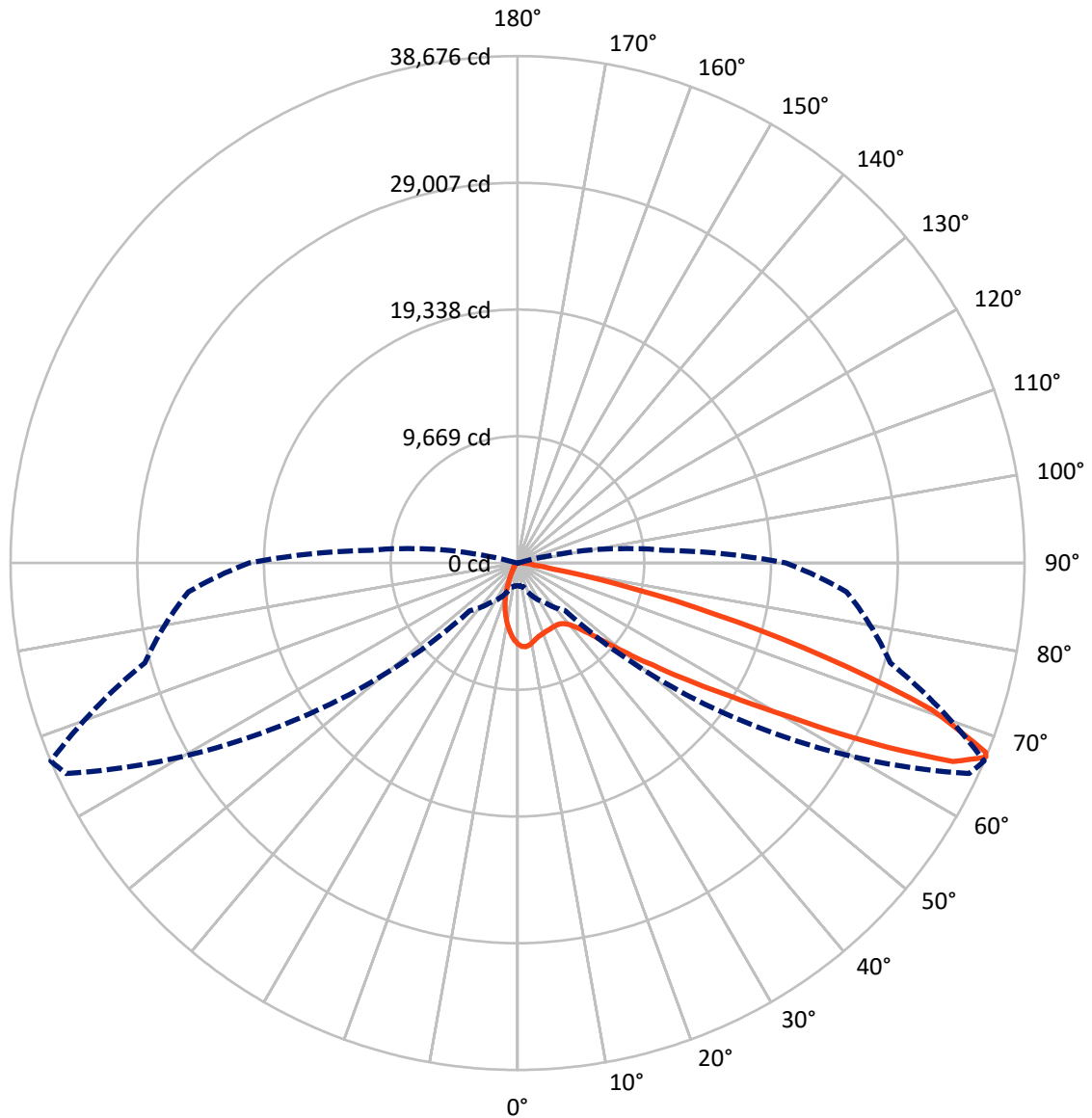


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2916.2	0.0	2916.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	25170.0	0.0	25170.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	28086.2	0.0	28086.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.0	1.8
10°-20°	1072.7	3.8
20°-30°	1559.6	5.6
30°-40°	2433.1	8.7
40°-50°	4310.1	15.3
50°-60°	6820.2	24.3
60°-70°	7811.6	27.8
70°-80°	3240.2	11.5
80°-90°	334.7	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°	28086.2	100.0
0°-180°	28086.2	100.0



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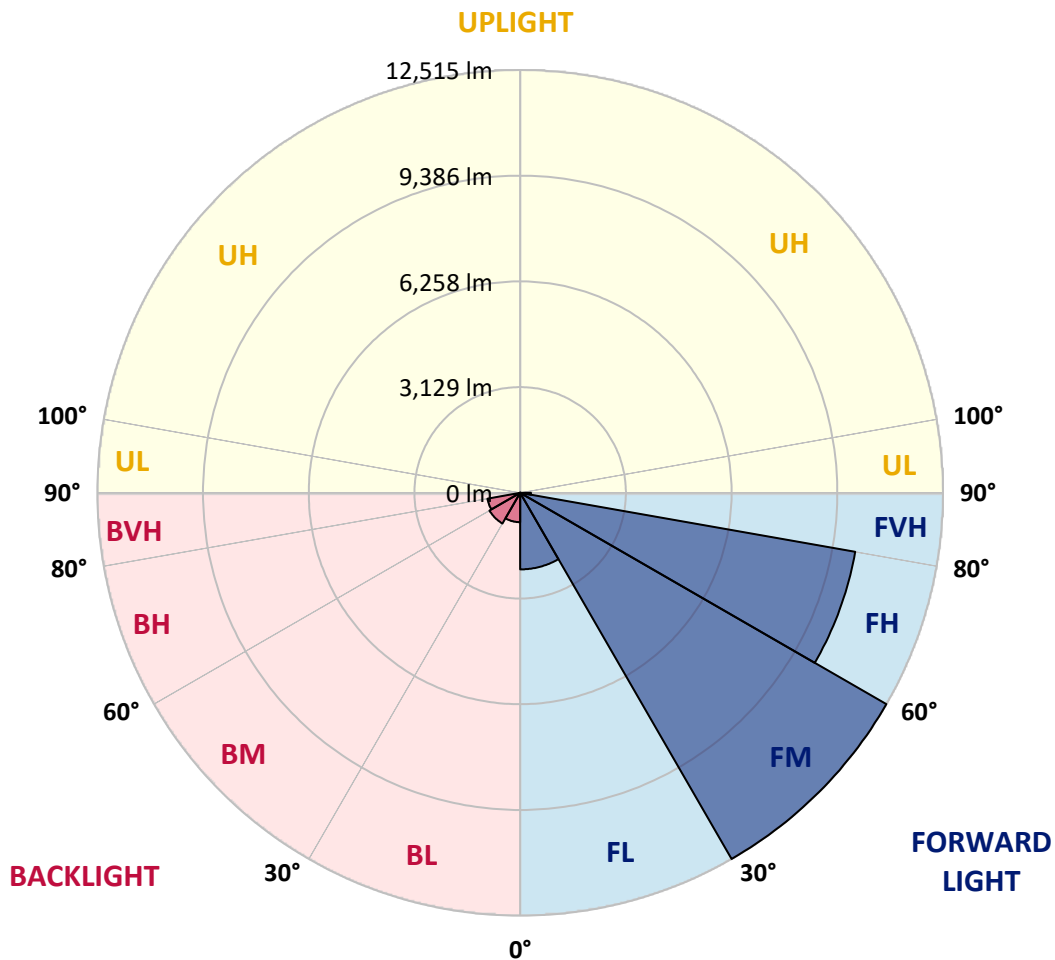
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.1	8.1			
FM (30°-60°)	12515.3	44.6			
FH (60°-80°)	10069.0	35.9			G4/12000
FVH (80°-90°)	319.6	1.1			G3/500
BL (0°-30°)	870.2	3.1	B2/1000		
BM (30°-60°)	1048.1	3.7	B2/2500		
BH (60°-80°)	982.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	6403.6	6416.8	6415.1	6425.0	6447.9	6449.6	6426.6	6382.4	6372.6	6315.3	6215.3
5°	5905.7	5943.3	5966.3	6059.7	6164.5	6290.7	6385.6	6420.1	6415.1	6374.3	6223.5
7.5°	5337.4	5374.9	5401.1	5510.9	5650.2	5866.3	6113.8	6317.0	6335.0	6379.2	6217.0
10°	4958.8	4965.4	5001.5	5106.2	5252.1	5473.3	5768.2	6123.6	6177.6	6339.9	6200.6
12.5°	4647.6	4652.5	4700.0	4813.1	4968.7	5191.5	5501.1	5912.2	5995.8	6290.7	6197.3
15°	4426.4	4444.4	4487.1	4604.9	4770.5	4991.6	5309.5	5756.7	5856.7	6272.7	6226.8
17.5°	4352.7	4372.3	4385.4	4470.7	4621.3	4837.6	5163.6	5655.0	5768.2	6282.5	6284.1
20°	4429.7	4444.4	4414.9	4436.3	4529.7	4722.9	5040.7	5568.3	5702.6	6294.0	6357.9
22.5°	4716.4	4722.9	4642.7	4549.3	4532.9	4639.3	4944.1	5499.4	5643.6	6325.1	6444.6
25°	5207.9	5196.4	5065.4	4863.7	4673.8	4624.6	4886.7	5456.9	5614.1	6357.9	6534.8
27.5°	5800.9	5817.3	5637.0	5343.8	4981.7	4722.9	4878.5	5438.8	5600.9	6380.8	6613.5
30°	6521.6	6544.6	6338.2	5969.6	5450.3	4965.4	4954.0	5435.5	5592.9	6366.1	6620.0
32.5°	7257.2	7285.1	7122.9	6742.8	6076.1	5371.6	5124.3	5471.6	5609.2	6315.3	6582.4
35°	8027.2	8066.5	7958.3	7632.5	6924.7	5958.1	5424.0	5581.4	5686.2	6310.4	6544.6
37.5°	9090.4	9126.4	8923.3	8577.6	7951.8	6744.5	5905.7	5787.8	5868.0	6388.9	6554.5
40°	10677.8	10672.9	10148.6	9619.5	9080.5	7743.7	6582.4	6161.2	6202.2	6626.6	6675.6
42.5°	12407.7	12399.5	11624.6	10820.3	10333.7	8974.1	7471.8	6806.8	6778.9	7063.9	6990.2
45°	13741.2	13739.6	13107.3	12201.3	11842.6	10386.1	8621.8	7704.4	7662.0	7774.9	7570.1
47.5°	14309.6	14319.5	14001.7	13364.5	13515.2	12296.4	10071.6	9005.1	8941.3	8895.5	8584.2
50°	13867.4	13887.1	13913.3	13788.7	14742.2	14863.4	12016.3	10838.3	10807.3	10602.4	10115.9
52.5°	12422.4	12522.4	12830.5	13225.2	15168.1	17327.2	15064.8	13115.5	12948.4	12730.5	12194.8
55°	9988.2	10097.8	10682.8	11641.0	14534.1	18945.8	19337.4	16051.1	15772.5	15122.2	14349.0
57.5°	6610.1	6780.5	7629.1	8848.0	12692.7	19206.2	23599.9	20125.3	19155.5	17374.7	16503.3
60°	3641.7	3805.5	4726.2	5830.4	9167.4	17918.6	26466.8	25429.8	23716.3	19892.8	19119.5
62.5°	2242.6	2331.1	3010.9	4038.1	5497.8	14142.6	27059.8	32095.7	30111.8	23134.7	22279.5
65°	1785.7	1823.3	2155.9	3300.9	3941.5	8412.2	25144.7	37177.3	36515.5	27059.8	25108.8
67°	1733.2	1747.9	1905.3	2834.0	3715.5	5157.0	21065.6	38004.6	38676.3	29435.2	25197.2
67.5°	1744.7	1761.0	1910.2	2704.7	3709.0	4739.3	19660.1	37678.6	38527.2	29623.6	24805.6
70°	1682.5	1733.2	2187.1	2703.1	3527.0	3938.2	11773.8	32646.1	33529.1	27525.0	21047.6
72.5°	596.3	599.7	945.2	2187.1	3835.0	3980.9	5912.2	23932.4	24586.2	21055.8	15174.7
75°	353.9	301.4	314.5	622.6	3664.7	3866.1	3410.7	15292.6	15536.6	12065.4	7684.9
77.5°	244.0	212.9	219.5	275.3	1395.8	3812.0	2709.6	7974.8	7714.2	4231.5	1636.6
80°	139.2	122.9	131.0	240.8	507.8	3556.5	2555.6	3233.8	2757.0	717.5	452.2
82.5°	73.8	62.3	75.4	198.2	353.9	2216.5	2560.5	1562.9	1238.5	242.4	308.0
85°	26.2	21.3	36.0	135.9	235.9	679.8	2373.7	1313.9	1032.1	118.0	234.3
87.5°	4.9	4.9	14.7	55.7	95.0	208.0	1404.0	779.8	522.6	70.5	160.5
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°	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0	6194.0
2.5°	6174.3	6104.0	6008.9	5892.6	5755.0	5633.7	5543.7	5450.3	5430.6	5397.9	5392.9
5°	6133.4	6012.2	5776.3	5506.0	5217.6	4957.2	4745.9	4557.5	4473.9	4401.8	4393.7
7.5°	6072.8	5890.9	5489.6	5053.9	4603.3	4193.8	3846.5	3600.7	3374.7	3266.6	3250.3
10°	6002.3	5741.9	5166.9	4562.3	3939.9	3361.6	2845.5	2413.1	2151.0	1995.3	1975.6
12.5°	5936.8	5596.2	4837.6	4052.9	3225.7	2452.5	1788.9	1376.1	1100.9	989.5	976.3
15°	5905.7	5478.2	4529.7	3532.0	2478.5	1561.2	978.0	756.8	666.7	640.6	638.9
17.5°	5902.4	5378.2	4228.3	2993.0	1736.4	907.6	637.3	581.6	563.6	557.0	557.0
20°	5900.8	5283.2	3926.8	2434.4	1102.5	604.5	530.8	517.7	504.6	496.4	496.4
22.5°	5918.8	5198.0	3612.2	1864.3	694.6	489.8	466.9	453.8	437.4	425.9	424.3
25°	5936.8	5132.5	3291.1	1327.0	502.9	425.9	402.9	385.0	362.0	347.3	345.7
27.5°	5940.1	5050.6	2947.2	888.0	420.9	371.9	342.4	314.5	288.3	273.5	271.9
30°	5890.9	4913.0	2565.4	599.7	371.9	322.8	283.4	253.9	229.3	217.9	217.9
32.5°	5794.3	4742.6	2146.1	452.2	330.9	276.9	234.3	206.4	190.0	185.0	183.4
35°	5707.4	4559.1	1715.2	383.4	296.5	234.3	191.6	173.6	163.8	162.1	160.5
37.5°	5656.7	4411.7	1310.6	347.3	263.8	196.5	162.1	149.0	144.1	140.8	142.5
40°	5696.0	4288.9	968.1	317.8	231.0	163.8	137.5	131.0	126.2	124.5	124.5
42.5°	5868.0	4267.5	719.2	291.6	199.8	135.9	119.6	114.7	111.5	109.8	111.5
45°	6320.2	4398.6	558.7	267.0	168.7	114.7	101.6	100.0	98.4	98.4	98.4
47.5°	7000.0	4668.8	465.2	239.2	140.8	98.4	88.5	86.9	85.2	86.9	86.9
50°	8151.8	5163.6	416.1	211.3	116.4	83.6	75.4	75.4	75.4	75.4	77.0
52.5°	9902.9	6136.6	383.4	183.4	95.0	70.5	63.9	63.9	65.5	65.5	67.2
55°	11854.0	7427.6	353.9	155.5	80.3	59.0	52.5	54.1	55.7	57.4	57.4
57.5°	13970.6	8857.7	329.3	127.9	68.9	47.5	44.2	45.9	47.5	50.8	50.8
60°	16524.6	10405.9	293.3	100.0	57.4	37.7	34.4	37.7	42.6	45.9	47.5
62.5°	19329.2	11903.1	247.4	78.6	47.5	29.5	27.9	34.4	41.0	44.2	45.9
65°	21245.8	12373.4	190.0	63.9	36.0	21.3	23.0	31.1	39.4	44.2	44.2
67°	20469.2	11218.4	155.5	54.1	29.5	16.4	21.3	31.1	39.4	42.6	44.2
67.5°	19930.3	10766.3	149.0	52.5	27.9	16.4	21.3	31.1	39.4	44.2	44.2
70°	16216.6	8087.8	124.5	39.4	23.0	14.7	18.0	29.5	37.7	42.6	42.6
72.5°	11267.6	4986.7	111.5	27.9	19.6	13.1	16.4	27.9	36.0	41.0	42.6
75°	5356.9	1805.3	95.0	21.3	18.0	11.5	14.7	27.9	36.0	41.0	41.0
77.5°	1092.7	419.3	77.0	18.0	14.7	11.5	13.1	26.2	34.4	39.4	39.4
80°	358.8	162.1	57.4	16.4	14.7	11.5	13.1	24.6	34.4	37.7	39.4
82.5°	258.8	82.0	37.7	16.4	14.7	11.5	11.5	24.6	32.8	37.7	37.7
85°	198.2	57.4	24.6	16.4	14.7	11.5	11.5	23.0	31.1	36.0	36.0
87.5°	131.0	23.0	19.6	16.4	14.7	11.5	11.5	23.0	29.5	34.4	36.0
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)