

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: P323172

Luminaire Tested: **GAN-SA8C-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323172  
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-SA8C-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA 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: 42759 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

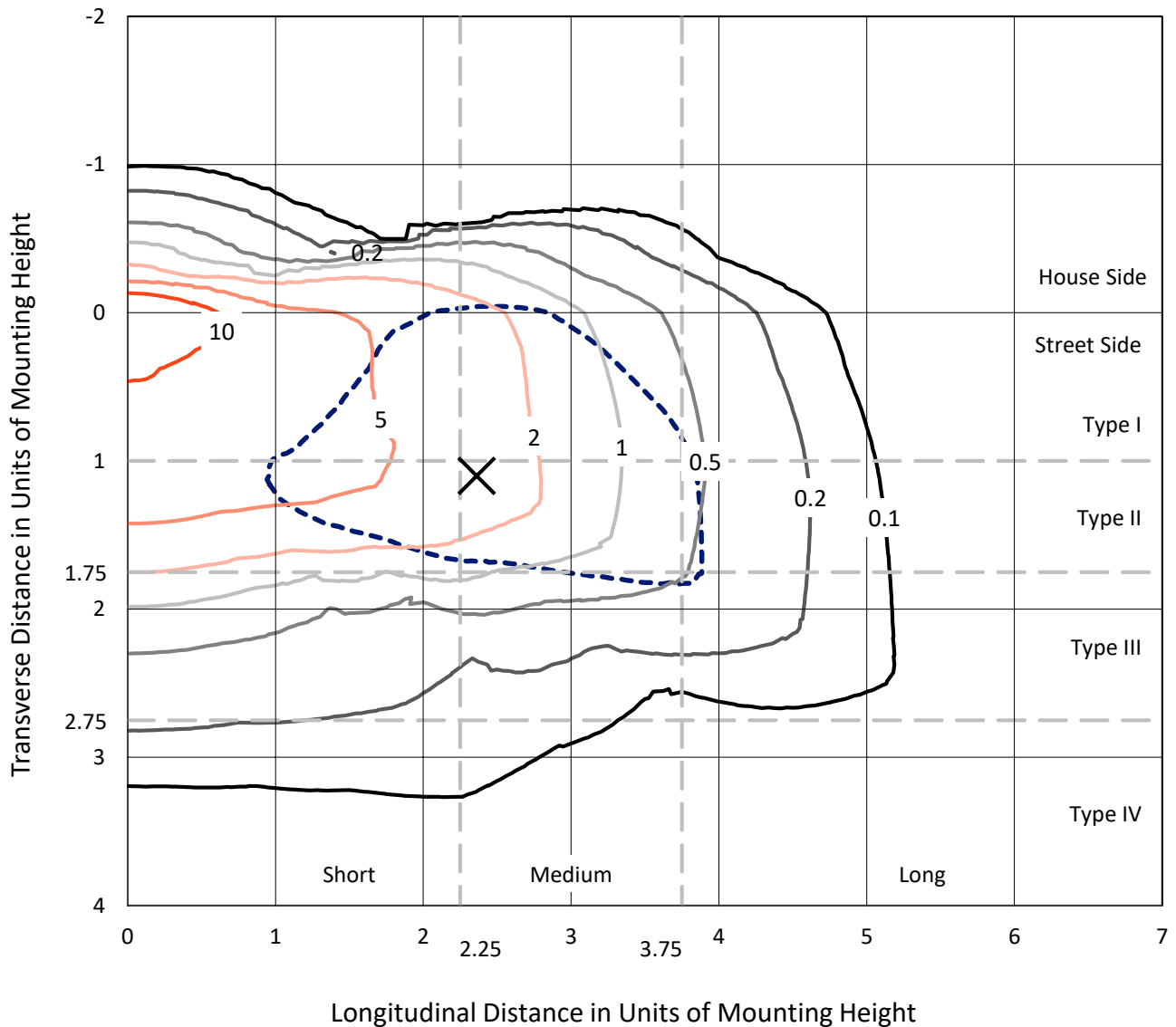
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

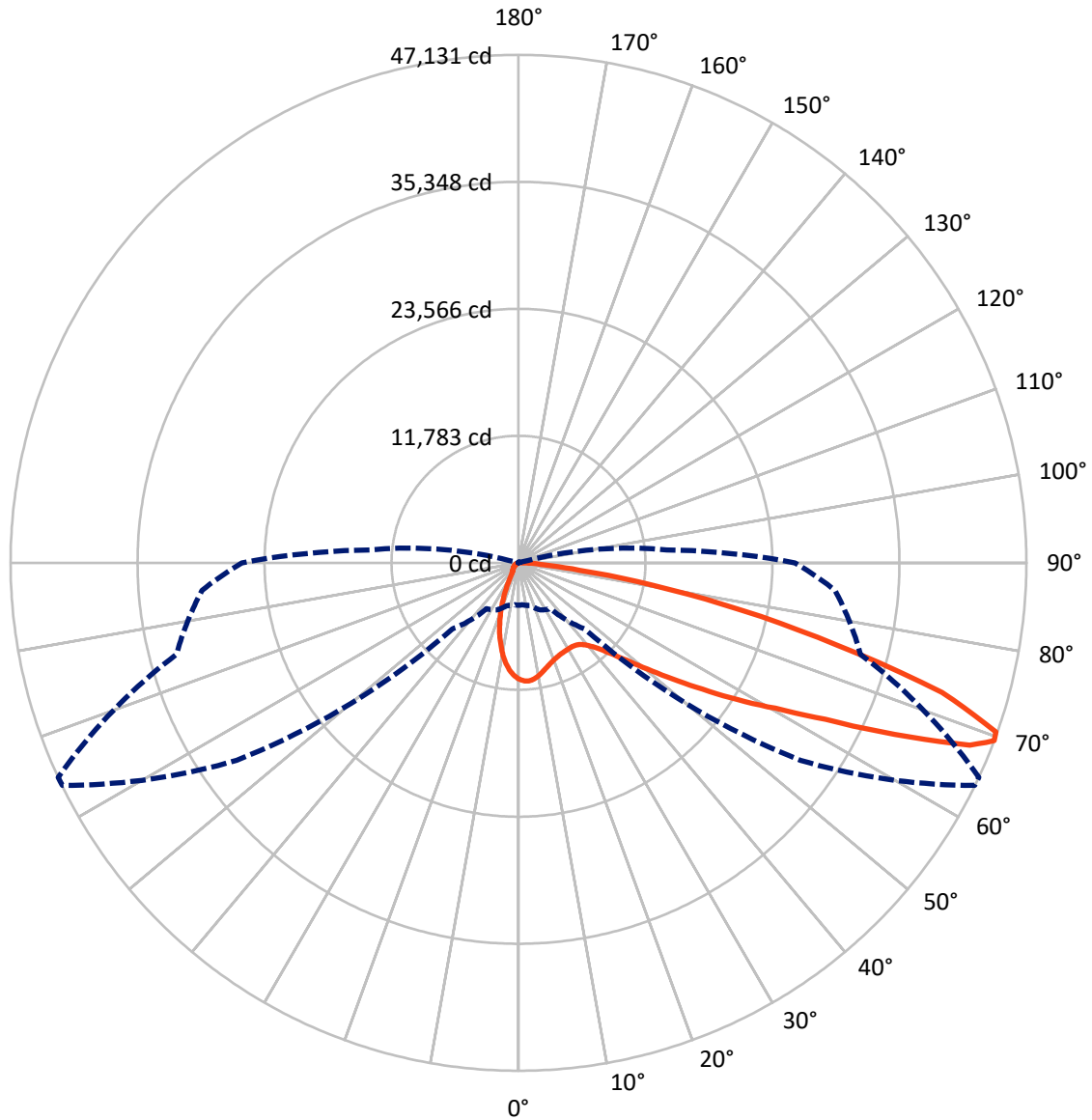
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	5040.3	0.0	5040.3
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	37718.7	0.0	37718.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	42759.0	0.0	42759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	903.5	2.1
10°-20°	1977.9	4.6
20°-30°	2739.5	6.4
30°-40°	3819.7	8.9
40°-50°	5937.1	13.9
50°-60°	9531.3	22.3
60°-70°	10781.4	25.2
70°-80°	6332.0	14.8
80°-90°	736.6	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°	42759.0	100.0
0°-180°	42759.0	100.0

**Coefficient of Utilization**

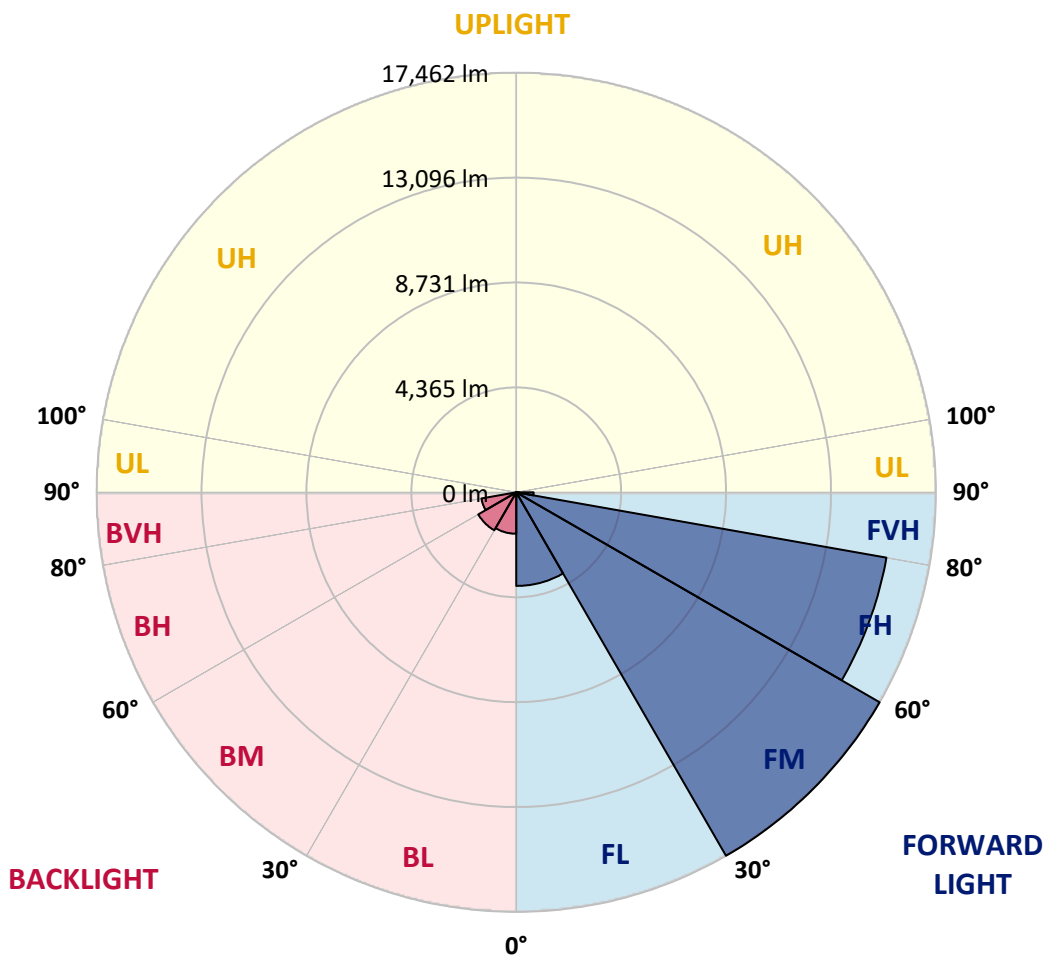


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3896.3	9.1			
FM (30°-60°)	17461.5	40.8			
FH (60°-80°)	15640.8	36.6			G5
FVH (80°-90°)	720.0	1.7			G4/750
BL (0°-30°)	1724.6	4.0	B3/2500		
BM (30°-60°)	1826.5	4.3	B2/2500		
BH (60°-80°)	1472.7	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.6	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-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3
2.5°	10901.2	10874.0	10895.7	10942.8	10966.3	10966.3	10984.4	10962.7	10969.9	10917.5	10841.5
5°	10219.1	10177.4	10237.1	10369.2	10532.1	10671.4	10877.6	10986.2	10997.1	10998.9	10910.2
7.5°	9484.5	9446.5	9535.1	9690.7	9900.6	10159.3	10519.4	10834.2	10852.3	11022.4	10957.3
10°	8887.4	8860.3	8963.4	9129.8	9375.9	9665.4	10106.9	10544.7	10597.2	10973.5	10950.0
12.5°	8413.3	8391.6	8489.3	8681.1	8932.6	9252.9	9714.3	10222.7	10293.2	10863.2	10913.8
15°	8067.8	8064.2	8145.6	8330.1	8608.8	8907.3	9379.5	9924.1	10005.6	10743.8	10908.4
17.5°	7886.8	7892.3	7952.0	8109.4	8348.2	8644.9	9097.3	9672.6	9761.3	10637.0	10935.5
20°	7868.7	7874.2	7906.7	7995.4	8189.0	8451.3	8867.5	9460.9	9553.2	10557.4	10979.0
22.5°	8028.0	8024.3	8033.4	8024.3	8132.9	8331.9	8715.5	9298.1	9404.9	10504.9	11013.3
25°	8333.7	8328.3	8324.7	8257.7	8185.4	8292.1	8652.2	9205.8	9307.2	10466.9	11033.2
27.5°	8758.9	8755.3	8749.9	8639.5	8422.4	8355.5	8659.4	9171.5	9256.5	10436.2	11029.6
30°	9318.0	9343.3	9336.1	9182.3	8844.0	8549.0	8735.4	9153.4	9227.5	10376.5	10991.6
32.5°	9974.8	10025.5	10065.3	9900.6	9477.2	8932.6	8910.9	9173.3	9227.5	10331.2	10922.9
35°	10656.9	10722.0	10868.6	10810.7	10253.4	9509.8	9213.1	9292.7	9337.9	10356.6	10890.3
37.5°	11328.2	11406.0	11724.4	11892.7	11270.3	10273.3	9683.5	9587.6	9611.1	10510.4	10926.5
40°	12108.0	12225.6	12708.7	12980.1	12484.3	11295.6	10387.3	10094.2	10103.3	10848.7	11094.8
42.5°	13132.1	13253.3	13776.2	14201.4	13852.2	12587.5	11342.6	10868.6	10859.6	11482.0	11491.0
45°	14380.5	14507.1	15048.1	15520.4	15363.0	14118.1	12565.7	11999.4	11988.6	12480.7	12241.9
47.5°	15795.4	15920.2	16403.3	16890.0	17060.1	15905.8	14123.6	13542.8	13517.4	13868.5	13401.7
50°	17009.4	17090.9	17536.0	18190.9	18958.1	18102.3	16061.4	15502.3	15475.1	15712.2	15104.2
52.5°	17450.9	17498.0	17950.3	18867.6	20781.9	21076.8	18607.1	17887.0	17867.1	17970.2	17371.3
55°	16557.1	16642.1	17197.6	18558.2	21769.8	24438.5	21820.4	20839.8	20689.6	20467.1	19741.5
57.5°	14121.8	14257.5	14854.5	16663.9	21308.4	27105.5	26542.8	24179.8	23959.0	22598.4	21668.4
60°	10580.9	10747.4	11243.1	13195.4	18845.9	28055.4	31702.9	27901.6	27404.0	24295.6	23439.8
62.5°	7260.8	7344.0	7680.6	8952.5	13879.3	26499.3	36020.0	32886.2	31978.0	26141.1	25355.8
65°	5545.6	5574.5	5712.0	6149.9	8265.0	21525.5	37737.0	39463.1	38364.9	28348.5	27344.3
67.5°	4469.0	4445.5	4635.5	5261.5	5534.7	13132.1	35734.1	45685.4	45171.5	31299.5	29345.4
69°	3940.7	3908.1	4101.7	4829.1	5198.2	8681.1	31945.4	47098.5	47131.0	32857.3	29482.9
70°	3546.3	3568.0	3759.8	4572.2	5084.2	6813.9	28326.8	46738.4	46995.3	33439.9	28657.9
72.5°	2368.4	2426.3	2811.7	3796.0	4888.8	5156.6	17103.5	40107.3	41095.1	32128.1	24586.9
75°	1335.3	1378.7	1836.5	2862.3	4606.5	4910.5	9033.9	29548.0	30503.4	26866.6	18959.9
77.5°	655.0	678.5	1038.6	1847.3	3852.0	4678.9	5124.0	20070.8	21161.8	17536.0	10723.9
80°	276.8	289.5	519.3	1139.9	2753.8	4465.4	3805.0	12352.2	12487.9	6870.0	2856.9
82.5°	106.8	110.4	218.9	711.1	1749.6	3481.1	3182.6	5856.8	5715.6	1293.7	651.4
85°	12.7	14.5	79.6	427.0	973.4	1791.2	2585.5	2524.0	2335.8	256.9	334.7
87.5°	0.0	0.0	5.4	130.3	289.5	839.5	1344.3	1047.6	944.5	83.2	173.7
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°	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3	10805.3
2.5°	10778.1	10760.0	10662.3	10521.2	10387.3	10220.9	10061.6	9965.7	9889.8	9839.1	9898.8
5°	10807.1	10727.5	10430.7	10050.8	9678.1	9258.3	8867.5	8536.4	8406.1	8261.4	8326.5
7.5°	10798.0	10647.9	10114.1	9437.4	8753.5	8046.1	7376.6	6861.0	6593.2	6330.8	6397.8
10°	10752.8	10499.5	9690.7	8688.4	7664.3	6647.5	5697.6	4975.6	4572.2	4206.7	4259.1
12.5°	10653.3	10300.5	9191.4	7830.7	6461.1	5120.4	4007.6	3083.1	2587.3	2368.4	2395.5
15°	10593.6	10106.9	8663.0	6962.3	5176.5	3566.2	2449.8	1822.0	1595.8	1523.4	1532.5
17.5°	10564.6	9920.5	8116.6	5969.0	3862.9	2270.7	1583.2	1396.8	1347.9	1335.3	1338.9
20°	10535.7	9732.3	7553.9	4986.5	2661.5	1527.1	1300.9	1246.6	1228.5	1212.2	1215.9
22.5°	10486.8	9551.4	6949.6	3991.4	1794.8	1239.4	1172.4	1120.0	1082.0	1062.1	1065.7
25°	10427.1	9361.4	6332.6	2972.7	1309.9	1105.5	1042.2	968.0	922.8	886.6	888.4
27.5°	10331.2	9128.0	5695.7	2163.9	1100.1	989.7	904.7	823.2	747.3	705.6	705.6
30°	10197.3	8863.9	4988.3	1548.8	986.1	875.7	772.6	671.3	589.8	551.8	548.2
32.5°	10049.0	8588.9	4273.6	1174.3	895.6	769.0	651.4	544.6	472.2	441.5	439.7
35°	9922.3	8292.1	3560.7	984.3	805.1	665.8	537.4	446.9	389.0	363.7	361.9
37.5°	9840.9	7995.4	2866.0	879.3	723.7	569.9	450.5	369.1	327.5	307.6	305.8
40°	9828.2	7774.7	2230.9	799.7	647.7	484.9	376.3	313.0	275.0	253.3	251.5
42.5°	9992.9	7648.0	1711.6	732.8	569.9	410.7	320.3	267.8	228.0	206.3	204.5
45°	10425.3	7687.8	1317.2	673.1	492.1	347.4	271.4	222.5	186.4	170.1	166.5
47.5°	11214.2	7962.8	1047.6	613.4	418.0	294.9	231.6	184.6	153.8	137.5	135.7
50°	12618.2	8608.8	875.7	548.2	349.2	251.5	191.8	150.2	124.8	110.4	108.6
52.5°	14481.8	9759.5	781.6	484.9	289.5	213.5	157.4	119.4	97.7	86.8	85.0
55°	16537.2	11152.7	720.1	416.1	237.0	177.3	124.8	94.1	76.0	66.9	63.3
57.5°	18543.7	12359.5	662.2	349.2	197.2	144.7	99.5	74.2	59.7	50.7	48.9
60°	20387.4	13468.6	595.3	280.4	161.0	114.0	77.8	57.9	47.0	38.0	38.0
62.5°	22361.4	14326.2	503.0	218.9	132.1	86.8	63.3	52.5	38.0	32.6	30.8
65°	24453.0	14963.1	394.4	170.1	103.1	65.1	52.5	54.3	30.8	23.5	21.7
67.5°	25998.2	14836.4	291.3	133.9	79.6	50.7	50.7	57.9	27.1	18.1	16.3
69°	25658.0	13806.9	244.3	115.8	68.8	43.4	47.0	57.9	25.3	16.3	14.5
70°	24671.9	12667.1	215.3	103.1	61.5	39.8	45.2	56.1	23.5	16.3	14.5
72.5°	20546.7	9540.6	168.3	77.8	48.9	32.6	38.0	48.9	23.5	16.3	12.7
75°	15455.2	6106.5	128.5	56.1	36.2	25.3	28.9	36.2	23.5	14.5	12.7
77.5°	8409.7	2201.9	92.3	38.0	25.3	19.9	19.9	27.1	21.7	10.9	7.2
80°	2162.1	553.7	57.9	25.3	19.9	14.5	12.7	18.1	12.7	1.8	0.0
82.5°	533.8	124.8	30.8	18.1	14.5	5.4	5.4	9.0	5.4	0.0	0.0
85°	293.1	61.5	19.9	12.7	7.2	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	150.2	18.1	5.4	3.6	1.8	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)