

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: P483914

Luminaire Tested: **IFLD-L-SA7A-727-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483914  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-727-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

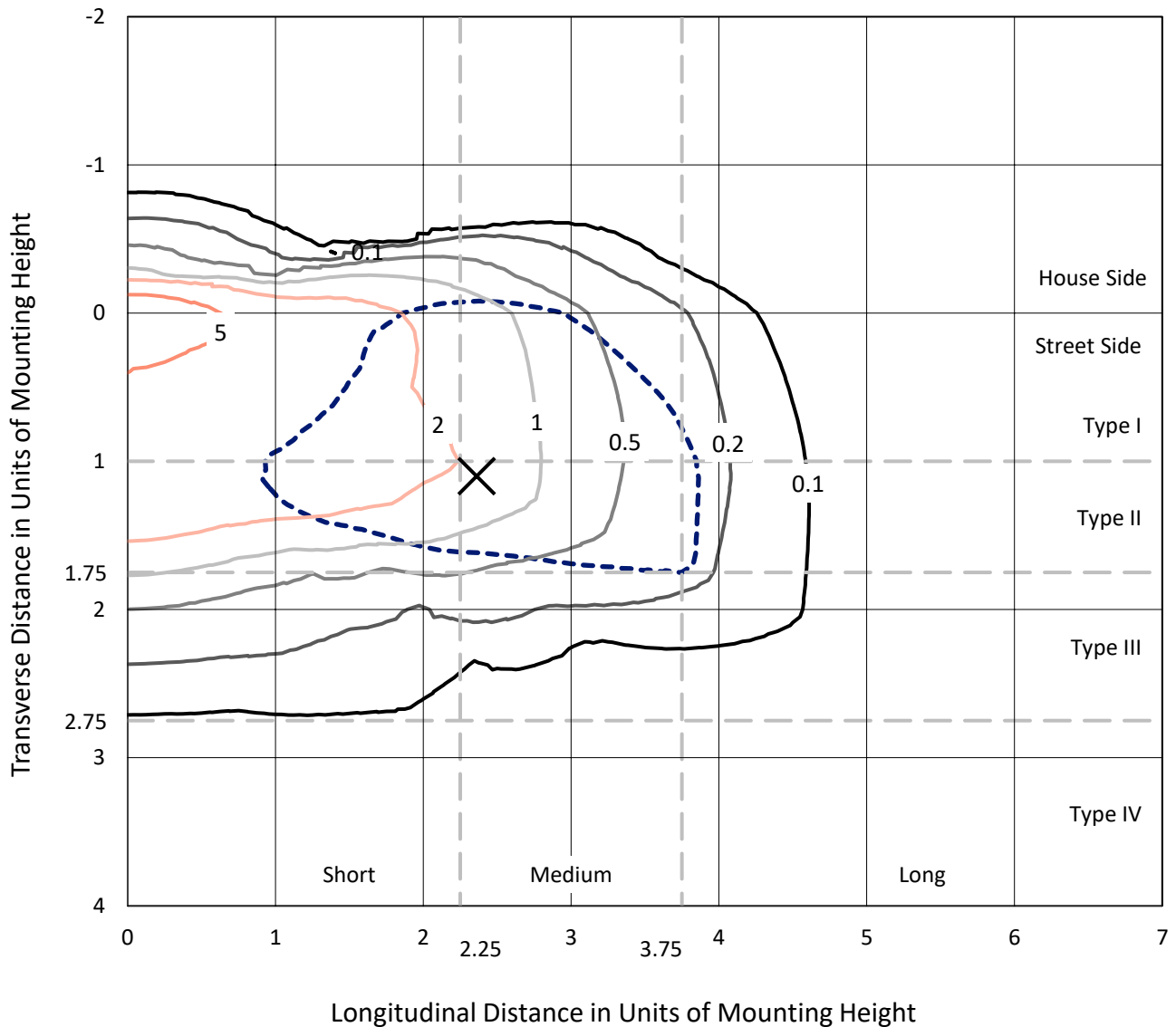
Lumens per Lamp: N/A  
Luminaire Lumens: 21544.7 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
Input Voltage (V): 120  
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

REPORT NUMBER: P483914  
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

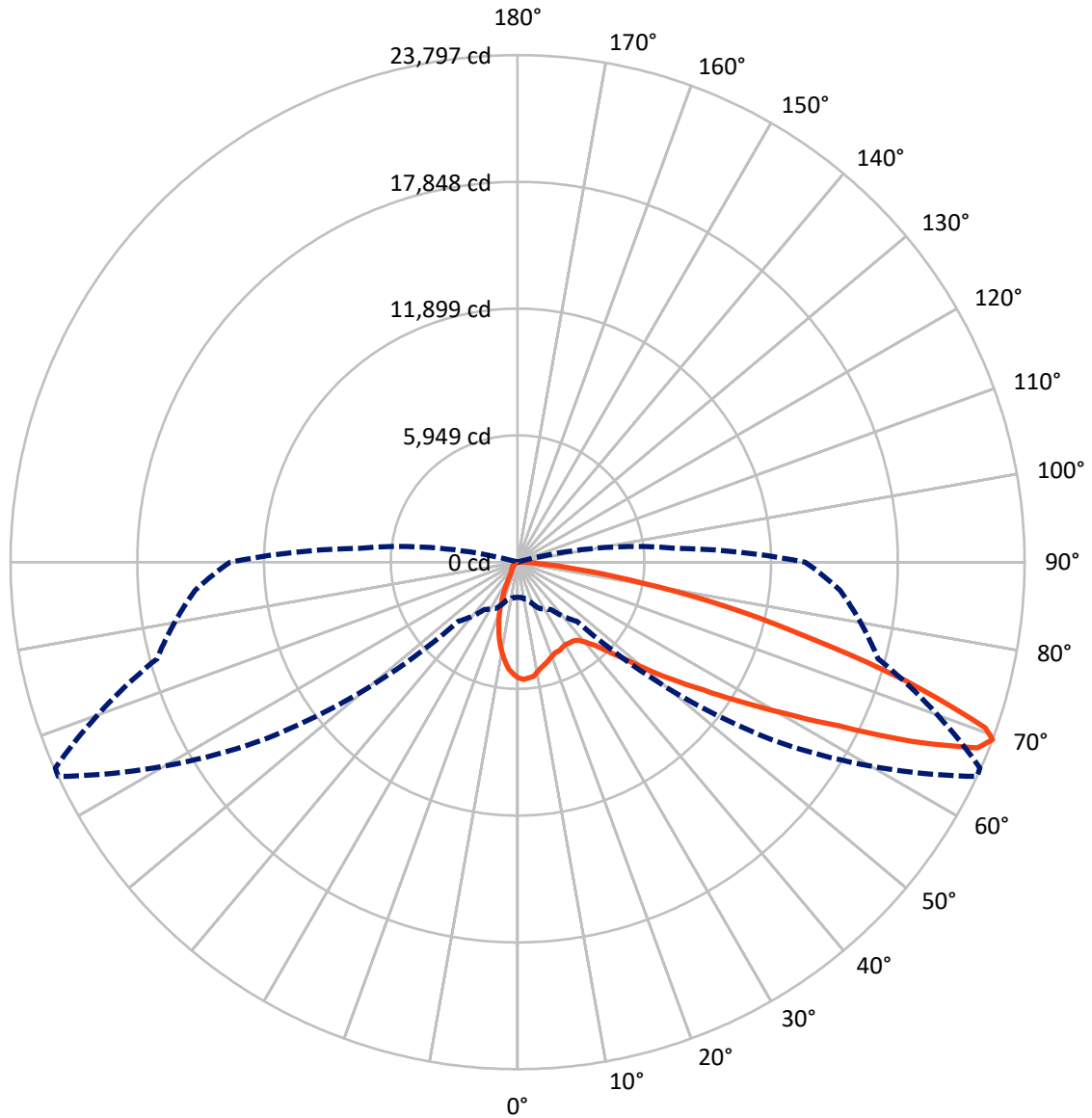
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P483914  
CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P483914  
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2613.5	0.0	2613.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	18931.2	0.0	18931.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	21544.7	0.0	21544.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.5	2.1
10°-20°	972.6	4.5
20°-30°	1354.0	6.3
30°-40°	1918.8	8.9
40°-50°	3024.0	14.0
50°-60°	4906.9	22.8
60°-70°	5480.0	25.4
70°-80°	3085.9	14.3
80°-90°	358.1	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°	21544.7	100.0
0°-180°	21544.7	100.0

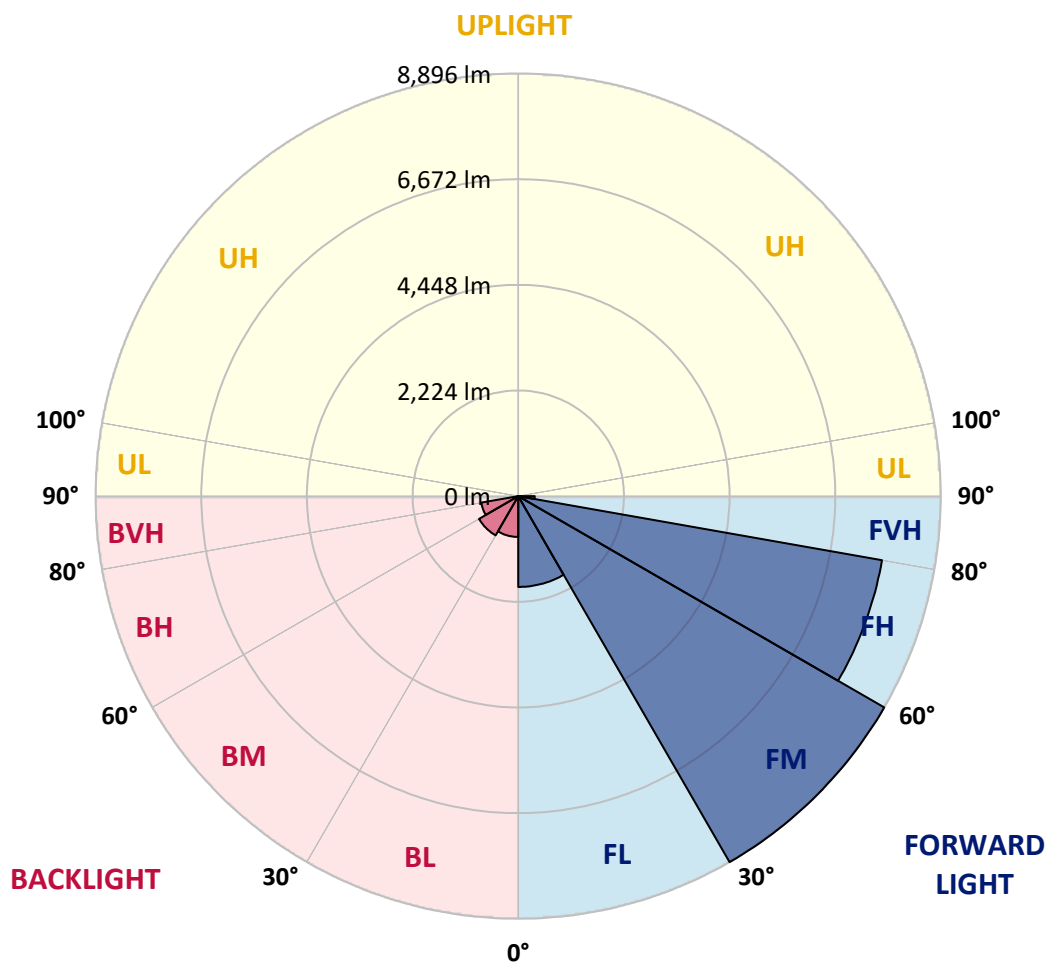


REPORT NUMBER: P483914  
 CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.9	8.9			
FM (30°-60°)	8896.0	41.3			
FH (60°-80°)	7775.1	36.1			G4/12000
FVH (80°-90°)	348.2	1.6			G3/500
BL (0°-30°)	859.2	4.0	B2/1000		
BM (30°-60°)	953.7	4.4	B1/1000		
BH (60°-80°)	790.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.9	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-G4**  
 Type II Medium





REPORT NUMBER: P483914

CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9
2.5°	5231.4	5272.1	5283.7	5324.4	5344.7	5431.9	5481.3	5510.4	5495.9	5527.8	5530.7
5°	4859.4	4836.1	4897.2	4940.8	5033.8	5184.9	5338.9	5458.1	5513.3	5565.6	5556.9
7.5°	4461.2	4449.6	4510.6	4609.4	4693.7	4876.8	5123.9	5417.4	5405.8	5533.6	5571.4
10°	4188.0	4199.6	4220.0	4318.8	4443.8	4629.8	4937.9	5211.0	5272.1	5542.4	5617.9
12.5°	3938.1	3958.4	3996.2	4097.9	4243.2	4435.1	4734.4	5054.1	5147.1	5493.0	5644.1
15°	3856.7	3810.2	3885.8	3961.3	4112.5	4283.9	4536.8	4934.9	4975.6	5434.8	5687.7
17.5°	3789.9	3760.8	3795.7	3856.7	4016.5	4156.0	4394.4	4807.1	4882.6	5411.6	5681.9
20°	3810.2	3784.0	3798.6	3845.1	3917.7	4048.5	4269.4	4685.0	4766.4	5304.0	5673.2
22.5°	3868.3	3888.7	3862.5	3874.1	3897.4	3964.2	4202.6	4597.8	4667.6	5283.7	5722.6
25°	4129.9	4095.0	4060.1	4045.6	3909.0	3938.1	4182.2	4592.0	4641.4	5211.0	5681.9
27.5°	4403.1	4374.0	4359.5	4275.2	4089.2	4002.0	4185.1	4510.6	4577.5	5182.0	5632.5
30°	4734.4	4772.2	4714.1	4612.3	4353.7	4138.6	4217.1	4469.9	4562.9	5071.5	5600.5
32.5°	5083.2	5103.5	5132.6	5057.0	4722.8	4345.0	4313.0	4507.7	4513.5	5071.5	5527.8
35°	5478.4	5449.4	5524.9	5530.7	5237.2	4711.2	4496.1	4533.9	4594.9	5048.3	5501.7
37.5°	5818.5	5867.9	5955.1	6094.6	5792.3	5228.5	4780.9	4655.9	4682.1	5155.8	5522.0
40°	6190.5	6239.9	6437.5	6577.0	6405.5	5809.8	5214.0	4940.8	4961.1	5315.7	5626.7
42.5°	6600.3	6696.2	6931.6	7175.7	7129.2	6548.0	5772.0	5359.3	5350.6	5713.8	5841.7
45°	7155.4	7283.3	7539.0	7820.9	7861.6	7393.7	6516.0	5984.1	6013.2	6234.1	6286.4
47.5°	7928.5	7922.7	8172.6	8486.5	8721.9	8271.4	7405.3	6824.1	6821.2	7056.6	6946.1
50°	8675.4	8678.3	8745.1	9108.4	9718.8	9489.2	8506.8	7940.1	7908.1	8024.4	7847.1
52.5°	9021.2	8980.6	8931.1	9370.0	10486.0	11023.7	9901.9	9204.3	9178.2	9108.4	9061.9
55°	8658.0	8672.5	8669.6	9125.9	10890.0	12642.5	11692.2	10596.5	10552.9	10334.9	10398.8
57.5°	7492.5	7446.0	7547.7	8259.8	10427.9	13746.9	14252.6	12351.9	12238.5	11514.9	11369.6
60°	5577.2	5591.8	5676.1	6516.0	9279.9	13979.4	16702.7	14412.5	13924.2	12346.1	12145.5
62.5°	3894.5	3865.4	3897.4	4368.2	6635.1	13049.4	18359.3	16917.7	16446.9	13290.6	13174.4
65°	2787.2	2749.4	2877.3	3165.0	3984.6	9977.4	18594.7	20254.2	19832.8	14799.0	14520.0
67.5°	2005.4	1999.6	2147.8	2670.9	2830.8	5745.8	16850.9	23276.8	23021.0	16589.3	15339.6
69°	1659.5	1662.4	1804.8	2391.9	2702.9	3923.5	14499.7	23797.0	23750.5	17513.5	15185.6
70°	1447.4	1459.0	1624.6	2226.2	2650.6	3226.0	12500.1	23285.5	23239.0	17693.7	14677.0
72.5°	892.2	901.0	1118.9	1784.5	2519.8	2633.1	7475.1	19051.0	19210.8	16868.3	12645.4
75°	427.2	430.1	587.1	1290.4	2429.7	2496.5	4004.9	14057.9	14395.0	13619.1	9881.5
77.5°	226.7	226.7	281.9	685.9	1967.6	2348.3	2377.4	9916.4	10195.4	8611.5	5617.9
80°	113.3	116.3	171.5	357.5	1220.7	2301.8	1857.1	5914.4	6065.5	3513.8	1749.6
82.5°	43.6	46.5	81.4	215.1	633.6	1944.3	1630.5	2909.2	2871.5	822.5	427.2
85°	5.8	5.8	29.1	127.9	270.3	857.4	1345.6	1214.8	1174.2	180.2	206.3
87.5°	0.0	0.0	5.8	37.8	81.4	249.9	520.2	334.2	372.0	49.4	101.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483914

CATALOG NUMBER: IFLD-L-SA7A-727-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9	5431.9
2.5°	5516.2	5455.2	5362.2	5272.1	5176.2	5059.9	4932.0	4885.5	4804.2	4798.3	4844.8
5°	5510.4	5411.6	5248.8	5057.0	4783.8	4577.5	4353.7	4190.9	4066.0	3984.6	4004.9
7.5°	5539.5	5420.3	5138.4	4725.7	4374.0	3964.2	3618.4	3380.1	3162.1	3054.6	3042.9
10°	5493.0	5333.1	4920.4	4342.1	3824.7	3252.2	2746.5	2426.8	2101.3	1982.1	1987.9
12.5°	5519.1	5295.3	4685.0	3946.8	3234.7	2490.7	1886.2	1450.3	1145.1	1046.3	1034.7
15°	5536.6	5214.0	4458.3	3473.1	2580.8	1697.3	1092.8	822.5	726.6	709.1	706.2
17.5°	5469.7	5115.1	4138.6	3005.1	1912.4	1031.7	726.6	671.4	653.9	642.3	636.5
20°	5466.8	5057.0	3862.5	2525.6	1275.9	703.3	627.8	607.4	581.3	572.5	572.5
22.5°	5417.4	4934.9	3531.2	1999.6	813.8	604.5	563.8	531.9	502.8	491.2	488.3
25°	5402.9	4792.5	3220.2	1502.6	619.0	540.6	499.9	453.4	418.5	401.1	392.4
27.5°	5362.2	4670.5	2906.3	1057.9	540.6	482.5	430.1	380.7	340.0	313.9	311.0
30°	5216.9	4542.6	2557.6	732.4	491.2	427.2	369.1	311.0	270.3	252.9	247.0
32.5°	5155.8	4423.4	2176.8	563.8	447.6	377.8	311.0	258.7	226.7	209.3	206.3
35°	5083.2	4249.1	1807.7	491.2	406.9	328.4	261.6	218.0	191.8	177.3	177.3
37.5°	5091.9	4109.5	1461.9	444.7	363.3	281.9	223.8	186.0	162.8	148.2	148.2
40°	5065.7	3999.1	1136.4	404.0	322.6	241.2	188.9	156.9	136.6	122.1	119.2
42.5°	5184.9	3970.0	857.4	369.1	281.9	206.3	162.8	133.7	113.3	95.9	95.9
45°	5385.4	4016.5	668.5	337.1	241.2	177.3	139.5	110.4	90.1	78.5	75.6
47.5°	5920.2	4199.6	523.1	311.0	206.3	154.0	116.3	90.1	72.7	61.0	58.1
50°	6696.2	4609.4	444.7	273.2	174.4	130.8	95.9	69.8	58.1	46.5	43.6
52.5°	7800.6	5298.2	404.0	241.2	145.3	107.5	75.6	55.2	43.6	34.9	32.0
55°	9003.8	6158.5	366.2	203.4	122.1	87.2	61.0	43.6	32.0	23.3	20.3
57.5°	9942.6	6902.5	334.2	168.6	98.8	69.8	46.5	32.0	23.3	14.5	11.6
60°	10968.5	7425.7	293.5	133.7	81.4	52.3	34.9	23.3	17.4	8.7	8.7
62.5°	12026.4	8038.9	241.2	104.6	63.9	40.7	26.2	17.4	11.6	2.9	2.9
65°	13497.0	8518.4	186.0	81.4	49.4	29.1	20.3	14.5	5.8	0.0	0.0
67.5°	13912.6	8283.0	136.6	63.9	34.9	20.3	14.5	8.7	2.9	0.0	0.0
69°	13497.0	7460.5	119.2	55.2	29.1	17.4	11.6	5.8	2.9	0.0	0.0
70°	12738.4	6821.2	104.6	46.5	26.2	17.4	8.7	5.8	2.9	0.0	0.0
72.5°	10654.6	5231.4	81.4	34.9	20.3	14.5	8.7	5.8	0.0	0.0	0.0
75°	7815.1	3231.8	61.0	26.2	17.4	11.6	8.7	5.8	0.0	0.0	0.0
77.5°	4188.0	1180.0	43.6	17.4	11.6	8.7	8.7	5.8	0.0	0.0	0.0
80°	1148.0	348.8	32.0	11.6	8.7	5.8	5.8	2.9	0.0	0.0	0.0
82.5°	313.9	90.1	20.3	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	168.6	34.9	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	87.2	11.6	8.7	5.8	5.8	2.9	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)