

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: P481644

Luminaire Tested: **IFLD-S-SA6C-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481644  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

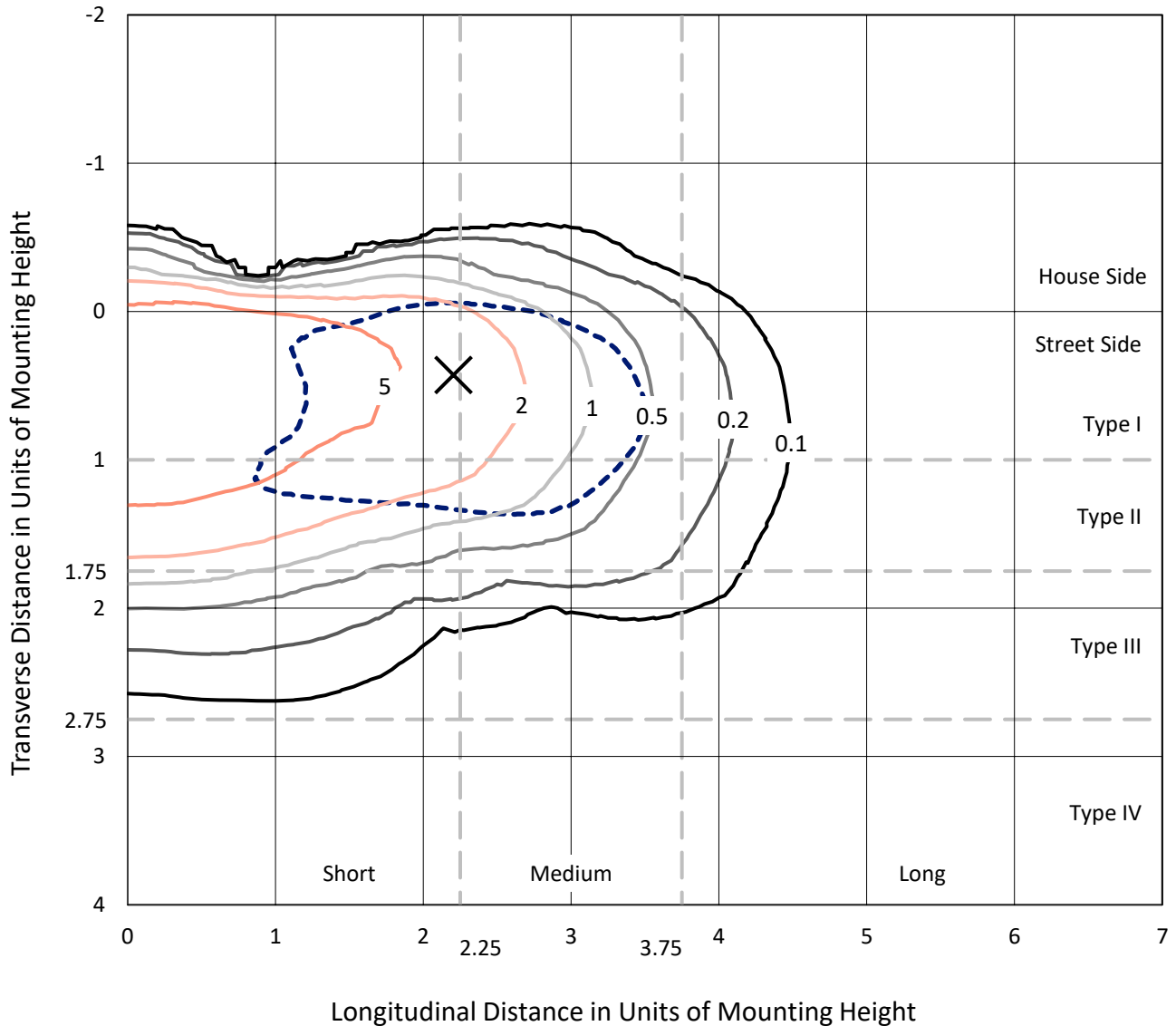
Lumens per Lamp: N/A  
Luminaire Lumens: 29513.1 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5  
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: P481644  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

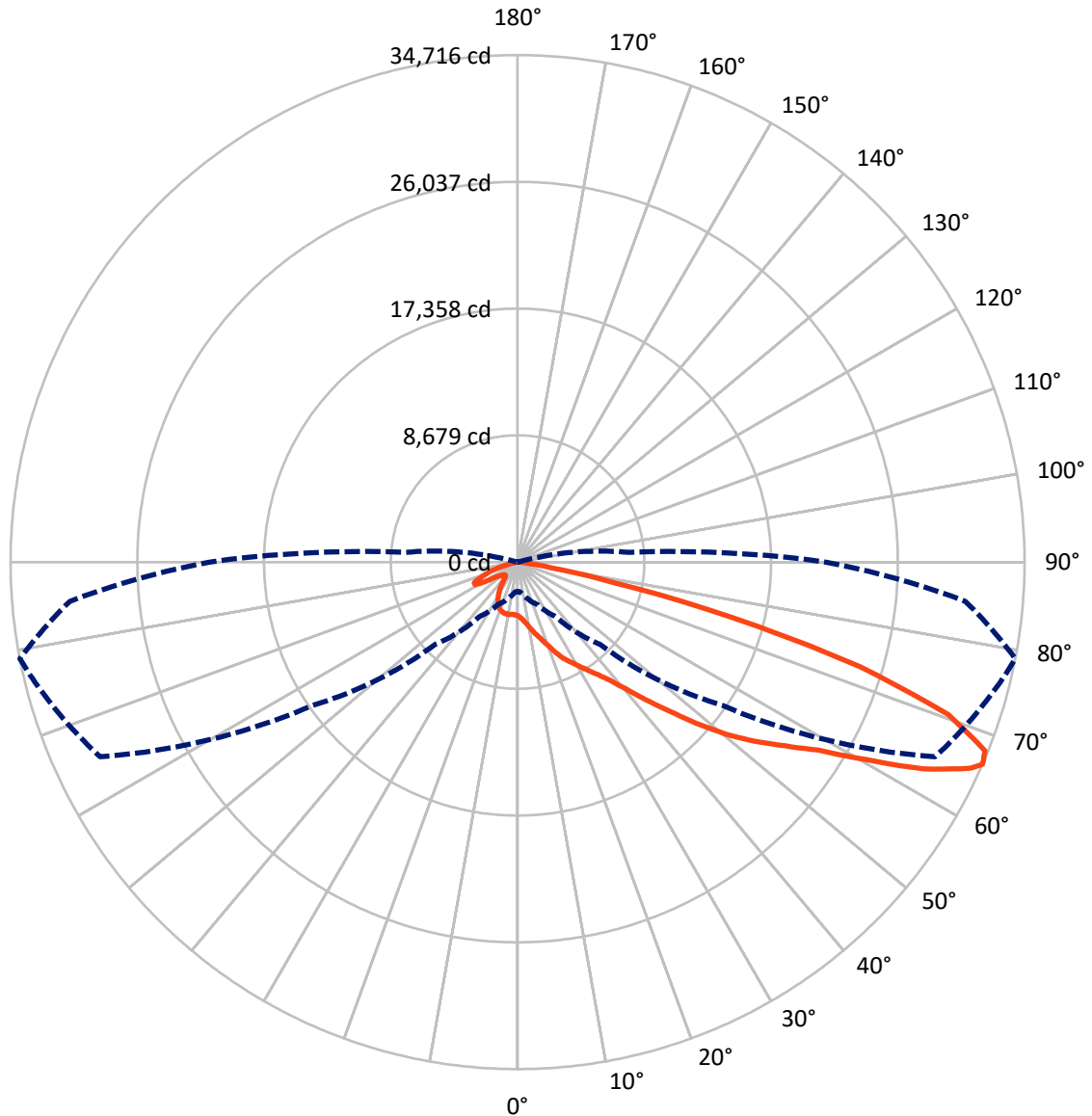
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P481644  
CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481644  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2216.0	0.0	2216.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	27297.1	0.0	27297.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	29513.1	0.0	29513.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.2	1.2
10°-20°	955.7	3.2
20°-30°	1587.6	5.4
30°-40°	2726.9	9.2
40°-50°	4940.2	16.7
50°-60°	7809.0	26.5
60°-70°	7946.2	26.9
70°-80°	3030.3	10.3
80°-90°	169.9	0.6
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°	29513.1	100.0
0°-180°	29513.1	100.0

**Coefficient of Utilization**



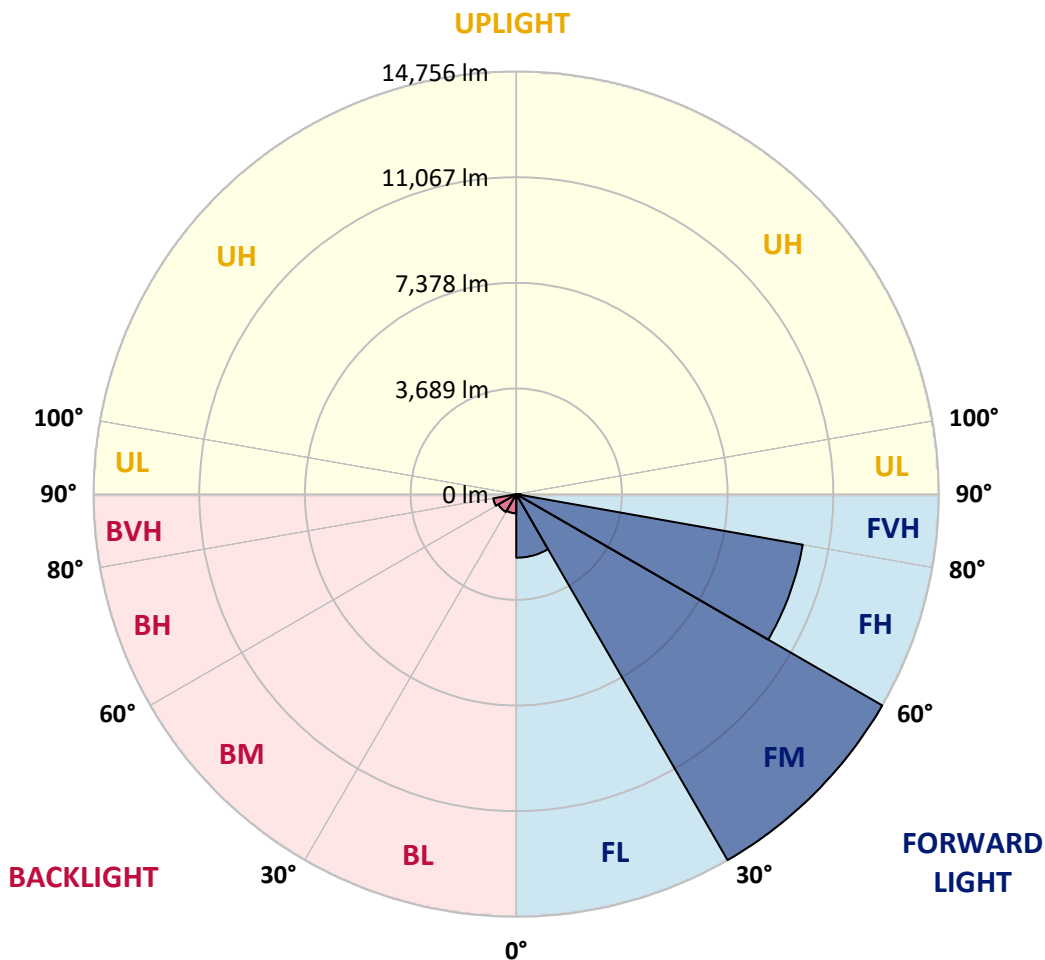
REPORT NUMBER: P481644  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.4	7.5			
FM (30°-60°)	14755.9	50.0			
FH (60°-80°)	10159.6	34.4			G4/12000
FVH (80°-90°)	161.2	0.5			G2/225
BL (0°-30°)	670.2	2.3	B2/1000		
BM (30°-60°)	720.2	2.4	B1/1000		
BH (60°-80°)	816.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	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 Short





REPORT NUMBER: P481644

CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8
2.5°	4158.6	4154.1	4135.9	4104.0	4063.1	4049.4	3990.3	3908.4	3862.9	3812.8	3790.1
5°	4445.3	4422.5	4477.1	4454.4	4463.5	4354.3	4281.5	4222.3	4049.4	3981.2	3872.0
7.5°	4509.0	4531.7	4527.2	4563.6	4600.0	4640.9	4590.9	4504.4	4331.5	4231.4	4113.1
10°	4509.0	4499.9	4536.3	4586.3	4691.0	4782.0	4918.5	4804.7	4672.8	4554.5	4340.6
12.5°	4427.1	4413.4	4449.8	4554.5	4741.0	4927.6	5077.7	5186.9	5000.4	4904.8	4627.3
15°	4176.8	4163.2	4313.3	4499.9	4745.6	5050.4	5364.4	5541.8	5414.4	5264.3	4954.9
17.5°	3867.4	3885.6	4044.9	4354.3	4745.6	5109.6	5510.0	5896.7	5878.5	5687.4	5364.4
20°	3762.8	3776.4	3935.7	4158.6	4604.5	5150.5	5737.4	6283.4	6392.6	6165.1	5742.0
22.5°	3963.0	3949.3	3963.0	4099.5	4509.0	5114.1	5887.6	6724.8	6920.4	6743.0	6237.9
25°	4645.5	4636.4	4522.6	4313.3	4454.4	5032.2	5964.9	7016.0	7466.4	7302.6	6638.3
27.5°	5646.5	5610.1	5432.6	4995.8	4709.2	5082.3	6092.3	7298.1	7944.2	7757.6	6997.8
30°	6720.2	6633.8	6401.7	5855.7	5368.9	5268.8	6165.1	7507.4	8476.5	8239.9	7311.7
32.5°	7461.9	7575.6	7502.8	6947.7	6201.5	5701.0	6283.4	7771.3	8967.9	8813.2	7848.6
35°	8608.4	8740.4	8435.6	7944.2	7193.4	6388.1	6533.7	7985.1	9723.2	9463.8	8349.1
37.5°	10055.3	10155.4	9937.0	9004.3	8212.6	7234.4	7047.8	8431.0	10373.8	10251.0	8990.6
40°	10783.3	11265.6	10956.2	10114.5	9263.6	8417.4	7898.7	8954.2	11506.7	11406.6	9877.9
42.5°	11788.8	12030.0	11870.7	11247.4	10360.2	9682.2	8949.7	9973.4	12880.8	12880.8	11079.1
45°	12853.5	12862.6	12853.5	12343.9	11556.8	11206.5	10369.3	11252.0	14359.5	14523.3	12516.8
47.5°	13727.1	14000.1	13977.4	13672.5	13062.8	12930.9	11788.8	12707.9	16215.9	16502.6	13918.2
50°	14177.5	14482.4	14573.4	14732.6	14705.3	14982.9	13340.4	14395.9	17817.5	18522.7	15720.0
52.5°	14054.7	14077.5	14637.1	15265.0	16266.0	17044.0	15210.4	16311.5	19692.1	20388.2	17112.2
55°	13049.2	12962.7	14113.9	14832.7	16903.0	18304.3	17799.3	18700.2	21152.6	22212.7	18550.0
57.5°	10842.5	10865.2	11929.9	13390.4	16429.8	18804.8	20565.6	21821.4	23200.0	24269.3	20570.2
60°	7484.6	7457.3	8649.4	10337.4	13649.8	17872.1	22158.1	25866.3	25939.1	27454.2	24196.5
62.5°	4208.7	4217.8	5123.2	6565.5	9550.3	14605.2	22080.8	30161.4	29852.0	31180.6	28318.7
65°	2384.2	2443.3	3066.6	3890.2	5719.2	9805.1	18991.4	31872.2	32868.6	34051.6	30821.2
66°	2015.6	2056.6	2588.9	3212.2	4563.6	7953.3	17094.0	31540.0	33815.0	34715.9	30771.1
67.5°	1560.6	1615.2	2061.1	2548.0	3348.7	5505.4	13759.0	29888.4	33987.9	34515.7	29902.1
70°	1069.2	1105.6	1446.9	1933.7	2288.6	2816.4	8226.3	24710.6	30839.4	31285.2	25989.1
72.5°	750.7	768.9	1014.6	1465.1	1760.8	1610.7	4081.3	17580.9	23600.4	24469.5	20215.3
75°	541.4	559.6	696.1	1051.0	1374.1	1055.6	1870.0	11229.2	14473.3	15155.8	12175.6
77.5°	391.3	414.0	473.2	677.9	996.4	741.6	919.1	5864.8	6824.9	6706.6	5237.0
80°	236.6	259.3	350.3	436.8	728.0	523.2	505.0	2447.9	2420.6	2297.7	1647.1
82.5°	109.2	127.4	186.5	295.7	509.6	364.0	241.1	873.6	764.4	700.7	464.1
85°	31.8	40.9	109.2	222.9	259.3	177.4	145.6	300.3	313.9	268.4	154.7
87.5°	0.0	4.5	50.0	54.6	77.3	59.1	54.6	77.3	145.6	118.3	50.0
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: P481644  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8	3671.8
2.5°	3708.2	3676.3	3599.0	3480.7	3376.0	3321.4	3244.1	3175.8	3139.4	3134.9	3130.3
5°	3799.2	3712.7	3526.2	3312.3	3153.1	2980.2	2861.9	2775.5	2693.6	2616.2	2661.7
7.5°	3922.0	3785.5	3480.7	3203.1	2857.3	2634.4	2425.1	2302.3	2229.5	2161.2	2152.1
10°	4113.1	3940.2	3448.8	2948.3	2552.5	2224.9	2011.1	1833.6	1733.5	1615.2	1660.7
12.5°	4372.5	4063.1	3330.5	2716.3	2206.7	1860.9	1556.1	1269.4	1110.2	987.3	991.9
15°	4631.8	4226.9	3221.3	2434.2	1892.8	1437.8	991.9	796.2	750.7	723.4	732.5
17.5°	4886.6	4358.8	3053.0	2147.6	1533.3	914.5	723.4	682.5	659.7	632.4	632.4
20°	5196.0	4445.3	2843.7	1883.7	1055.6	677.9	618.8	591.5	555.1	518.7	523.2
22.5°	5496.3	4518.1	2602.6	1547.0	709.8	586.9	518.7	482.3	450.4	414.0	414.0
25°	5796.6	4540.8	2288.6	1110.2	573.3	468.6	404.9	354.9	323.0	291.2	295.7
27.5°	6001.3	4399.8	1992.9	709.8	459.5	354.9	282.1	241.1	213.8	182.0	182.0
30°	6119.6	4140.4	1674.4	500.5	345.8	241.1	168.3	127.4	100.1	77.3	72.8
32.5°	6237.9	3931.1	1314.9	382.2	227.5	127.4	63.7	22.7	0.0	0.0	0.0
35°	6474.5	3694.5	882.7	213.8	77.3	4.5	0.0	0.0	0.0	0.0	0.0
37.5°	6624.7	3366.9	404.9	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7002.3	3203.1	100.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7616.6	3089.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8290.0	3043.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9186.3	3166.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10132.7	3498.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11170.1	3812.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12075.5	4190.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13740.8	5082.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16730.1	6834.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	20097.0	8135.3	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	21330.0	8103.4	86.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	21111.6	7657.5	86.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	19978.7	6802.1	77.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	17157.7	5619.2	77.3	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	13081.0	4377.0	72.8	18.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	7894.1	2329.6	59.1	22.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3144.0	819.0	45.5	18.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	850.8	245.7	27.3	18.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	222.9	91.0	22.7	18.2	9.1	4.5	0.0	0.0	0.0	0.0	0.0
85°	86.4	36.4	18.2	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0
87.5°	27.3	13.6	13.6	9.1	9.1	4.5	4.5	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)