

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: P481613

Luminaire Tested: **IFLD-L-SA7A-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481613  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

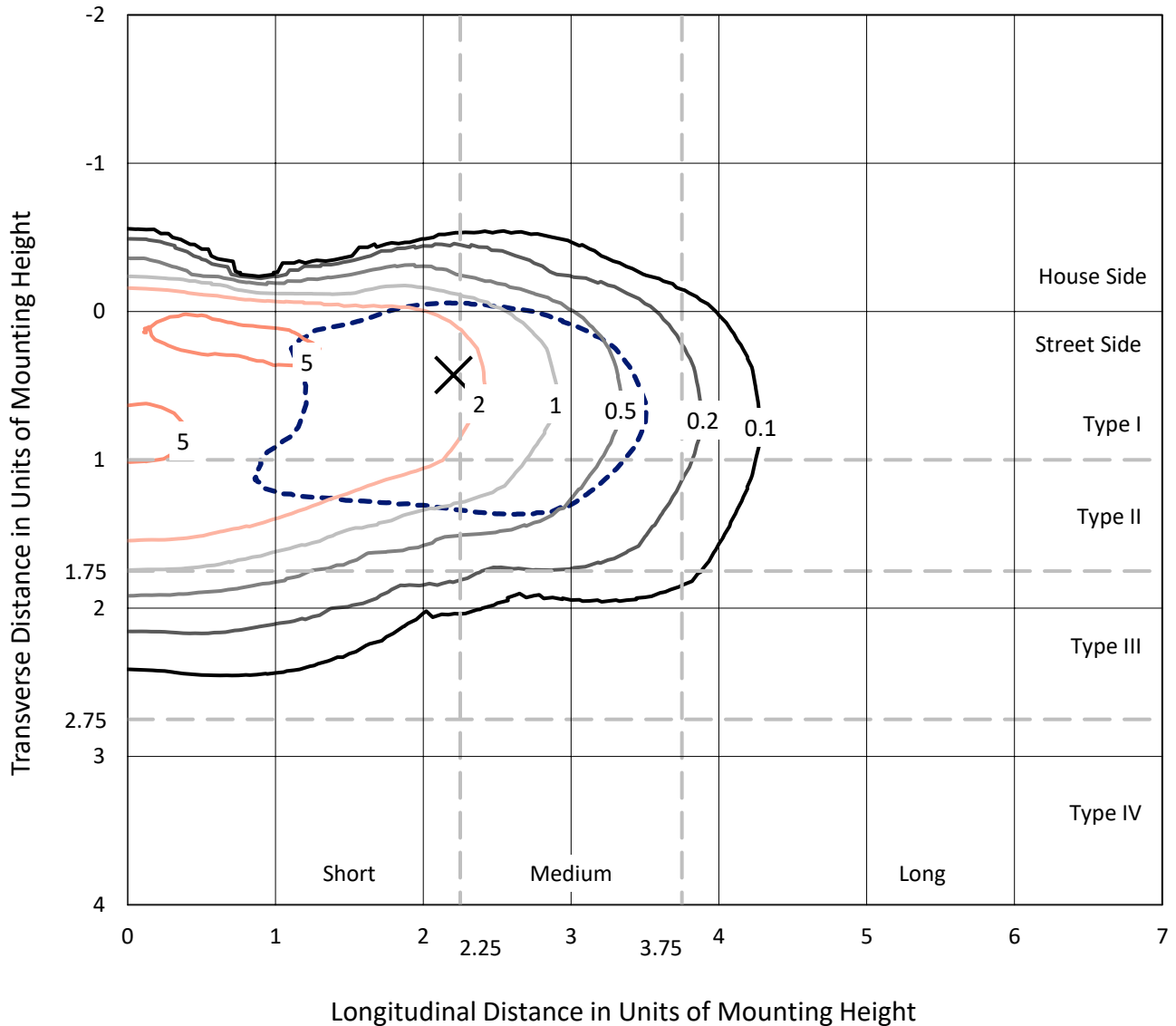
Lumens per Lamp: N/A  
Luminaire Lumens: 20525.6 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

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: P481613  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

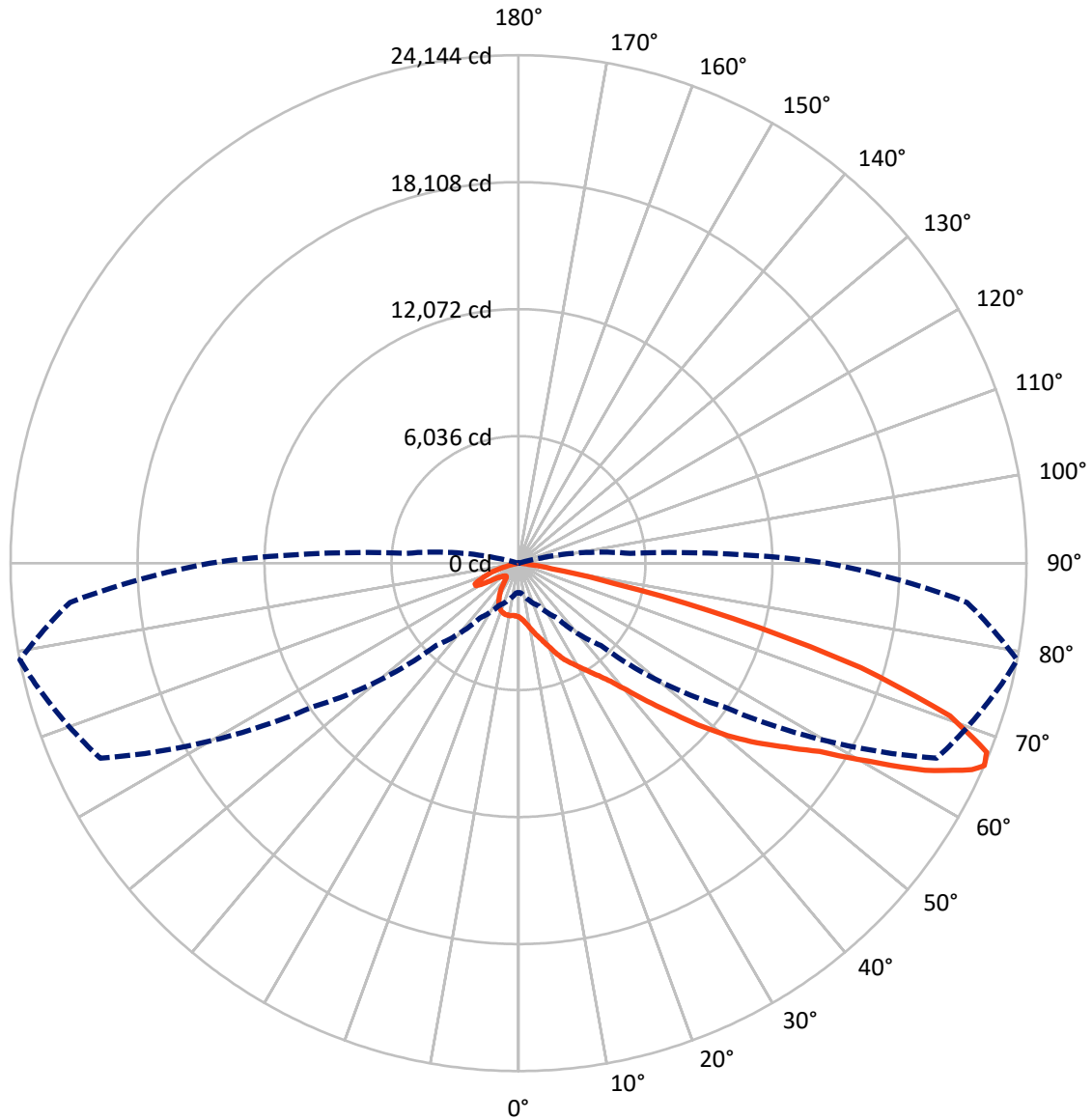
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P481613  
CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P481613  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1541.2	0.0	1541.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	18984.4	0.0	18984.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	20525.6	0.0	20525.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.5	1.2
10°-20°	664.6	3.2
20°-30°	1104.2	5.4
30°-40°	1896.5	9.2
40°-50°	3435.8	16.7
50°-60°	5430.9	26.5
60°-70°	5526.4	26.9
70°-80°	2107.5	10.3
80°-90°	118.2	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°	20525.6	100.0
0°-180°	20525.6	100.0

**Coefficient of Utilization**



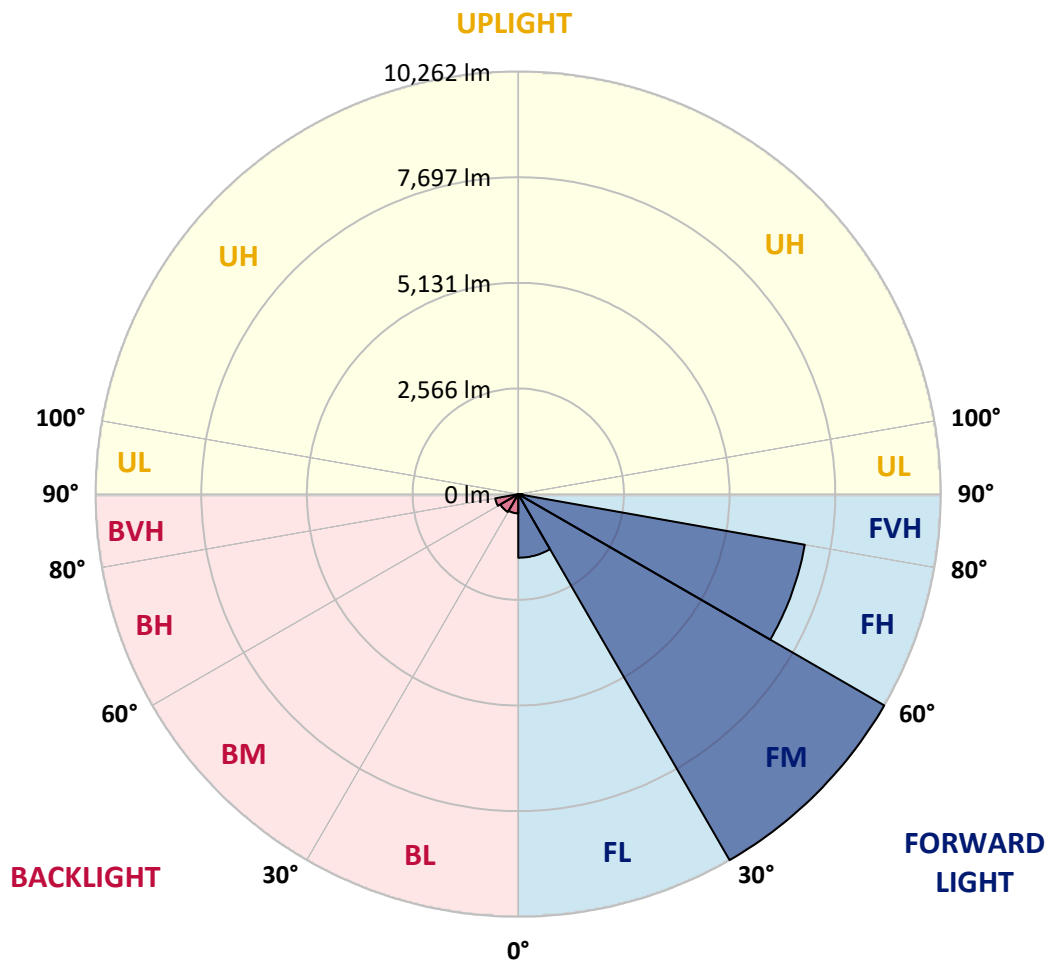
REPORT NUMBER: P481613  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1544.2	7.5			
FM (30°-60°)	10262.3	50.0			
FH (60°-80°)	7065.7	34.4			G3/7500
FVH (80°-90°)	112.1	0.5			G2/225
BL (0°-30°)	466.1	2.3	B1/500		
BM (30°-60°)	500.9	2.4	B1/1000		
BH (60°-80°)	568.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.0	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-G3**

Type II Short





REPORT NUMBER: P481613  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6
2.5°	2892.2	2889.0	2876.4	2854.2	2825.8	2816.3	2775.1	2718.2	2686.5	2651.7	2635.9
5°	3091.6	3075.7	3113.7	3097.9	3104.2	3028.3	2977.6	2936.5	2816.3	2768.8	2692.9
7.5°	3135.9	3151.7	3148.5	3173.8	3199.2	3227.6	3192.8	3132.7	3012.5	2942.8	2860.6
10°	3135.9	3129.5	3154.9	3189.7	3262.4	3325.7	3420.7	3341.5	3249.8	3167.5	3018.8
12.5°	3078.9	3069.4	3094.7	3167.5	3297.2	3427.0	3531.4	3607.4	3477.6	3411.2	3218.1
15°	2904.9	2895.4	2999.8	3129.5	3300.4	3512.4	3730.8	3854.2	3765.6	3661.1	3446.0
17.5°	2689.7	2702.4	2813.1	3028.3	3300.4	3553.6	3832.0	4101.0	4088.3	3955.4	3730.8
20°	2616.9	2626.4	2737.2	2892.2	3202.3	3582.0	3990.2	4370.0	4445.9	4287.7	3993.4
22.5°	2756.1	2746.7	2756.1	2851.1	3135.9	3556.7	4094.7	4676.9	4813.0	4689.6	4338.3
25°	3230.8	3224.5	3145.4	2999.8	3097.9	3499.8	4148.5	4879.4	5192.7	5078.8	4616.8
27.5°	3927.0	3901.6	3778.2	3474.5	3275.1	3534.6	4237.1	5075.6	5524.9	5395.2	4866.8
30°	4673.7	4613.6	4452.2	4072.5	3733.9	3664.3	4287.7	5221.2	5895.2	5730.6	5085.1
32.5°	5189.5	5268.6	5218.0	4832.0	4313.0	3964.9	4370.0	5404.7	6236.9	6129.3	5458.5
35°	5986.9	6078.7	5866.7	5524.9	5002.8	4442.7	4544.0	5553.4	6762.2	6581.8	5806.6
37.5°	6993.2	7062.8	6910.9	6262.2	5711.6	5031.3	4901.6	5863.5	7214.7	7129.3	6252.7
40°	7499.5	7834.9	7619.7	7034.3	6442.6	5854.0	5493.3	6227.4	8002.6	7933.0	6869.8
42.5°	8198.8	8366.5	8255.8	7822.3	7205.2	6733.7	6224.3	6936.2	8958.3	8958.3	7705.2
45°	8939.3	8945.6	8939.3	8584.9	8037.4	7793.8	7211.5	7825.4	9986.7	10100.6	8705.1
47.5°	9546.8	9736.7	9720.9	9508.9	9084.8	8993.1	8198.8	8838.0	11277.7	11477.1	9679.7
50°	9860.1	10072.1	10135.4	10246.1	10227.2	10420.2	9277.9	10012.0	12391.6	12882.0	10932.8
52.5°	9774.7	9790.5	10179.7	10616.4	11312.5	11853.6	10578.4	11344.2	13695.3	14179.4	11901.1
55°	9075.3	9015.2	9815.8	10315.8	11755.5	12730.2	12378.9	13005.5	14711.0	15448.3	12901.0
57.5°	7540.6	7556.5	8296.9	9312.7	11426.5	13078.2	14302.8	15176.2	16135.0	16878.6	14306.0
60°	5205.3	5186.4	6015.4	7189.4	9493.0	12429.5	15410.4	17989.3	18039.9	19093.7	16828.0
62.5°	2927.0	2933.3	3563.1	4566.2	6642.0	10157.5	15356.6	20976.4	20761.3	21685.3	19694.9
65°	1658.1	1699.3	2132.8	2705.5	3977.6	6819.2	13208.0	22166.2	22859.2	23682.0	21435.3
66°	1401.8	1430.3	1800.5	2234.0	3173.8	5531.3	11888.4	21935.2	23517.4	24144.0	21400.5
67.5°	1085.4	1123.3	1433.4	1772.0	2329.0	3828.9	9569.0	20786.6	23637.7	24004.7	20796.1
70°	743.6	768.9	1006.3	1344.8	1591.7	1958.7	5721.1	17185.6	21447.9	21758.0	18074.7
72.5°	522.1	534.8	705.6	1018.9	1224.6	1120.2	2838.4	12227.0	16413.5	17017.8	14059.2
75°	376.6	389.2	484.1	731.0	955.6	734.1	1300.5	7809.6	10065.8	10540.4	8467.8
77.5°	272.1	288.0	329.1	471.5	693.0	515.8	639.2	4078.8	4746.5	4664.2	3642.2
80°	164.5	180.4	243.7	303.8	506.3	363.9	351.2	1702.4	1683.4	1598.0	1145.5
82.5°	75.9	88.6	129.7	205.7	354.4	253.1	167.7	607.6	531.6	487.3	322.8
85°	22.2	28.5	75.9	155.1	180.4	123.4	101.3	208.8	218.3	186.7	107.6
87.5°	0.0	3.2	34.8	38.0	53.8	41.1	38.0	53.8	101.3	82.3	34.8
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: P481613

CATALOG NUMBER: IFLD-L-SA7A-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6	2553.6
2.5°	2578.9	2556.8	2503.0	2420.7	2347.9	2310.0	2256.2	2208.7	2183.4	2180.2	2177.1
5°	2642.2	2582.1	2452.4	2303.6	2192.9	2072.6	1990.4	1930.3	1873.3	1819.5	1851.1
7.5°	2727.7	2632.7	2420.7	2227.7	1987.2	1832.2	1686.6	1601.2	1550.5	1503.1	1496.7
10°	2860.6	2740.3	2398.6	2050.5	1775.2	1547.4	1398.6	1275.2	1205.6	1123.3	1155.0
12.5°	3040.9	2825.8	2316.3	1889.1	1534.7	1294.2	1082.2	882.9	772.1	686.7	689.8
15°	3221.3	2939.7	2240.4	1692.9	1316.4	999.9	689.8	553.8	522.1	503.1	509.5
17.5°	3398.5	3031.4	2123.3	1493.6	1066.4	636.0	503.1	474.7	458.8	439.8	439.8
20°	3613.7	3091.6	1977.7	1310.0	734.1	471.5	430.4	411.4	386.1	360.7	363.9
22.5°	3822.5	3142.2	1810.0	1075.9	493.6	408.2	360.7	335.4	313.3	288.0	288.0
25°	4031.4	3158.0	1591.7	772.1	398.7	325.9	281.6	246.8	224.7	202.5	205.7
27.5°	4173.8	3059.9	1386.0	493.6	319.6	246.8	196.2	167.7	148.7	126.6	126.6
30°	4256.0	2879.6	1164.5	348.1	240.5	167.7	117.1	88.6	69.6	53.8	50.6
32.5°	4338.3	2734.0	914.5	265.8	158.2	88.6	44.3	15.8	0.0	0.0	0.0
35°	4502.9	2569.4	613.9	148.7	53.8	3.2	0.0	0.0	0.0	0.0	0.0
37.5°	4607.3	2341.6	281.6	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4869.9	2227.7	69.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5297.1	2148.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5765.4	2116.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6388.8	2202.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7047.0	2433.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7768.5	2651.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8398.2	2914.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9556.3	3534.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11635.3	4752.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13976.9	5657.8	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14834.5	5635.7	60.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14682.6	5325.6	60.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13894.6	4730.7	53.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11932.7	3908.0	53.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9097.5	3044.1	50.6	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5490.1	1620.1	41.1	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2186.6	569.6	31.6	12.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	591.7	170.9	19.0	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	155.1	63.3	15.8	12.7	6.3	3.2	0.0	0.0	0.0	0.0	0.0
85°	60.1	25.3	12.7	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0
87.5°	19.0	9.5	9.5	6.3	6.3	3.2	3.2	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)