

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: P482045

Luminaire Tested: **IFLD-L-SA7D-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482045  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

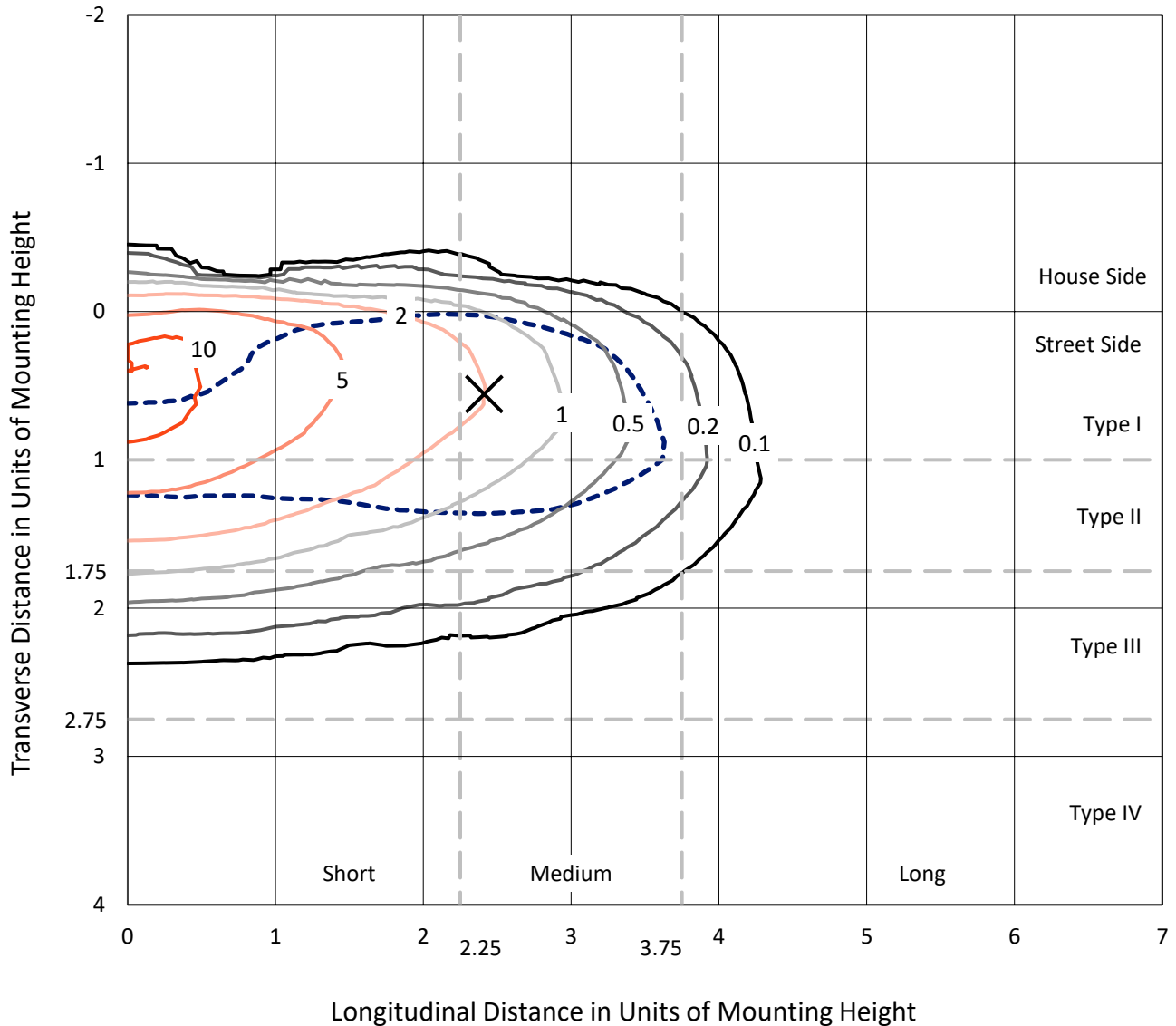
Lumens per Lamp: N/A  
Luminaire Lumens: 37825.1 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
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

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### Iso-Footcandle Lines of Horizontal Illumination

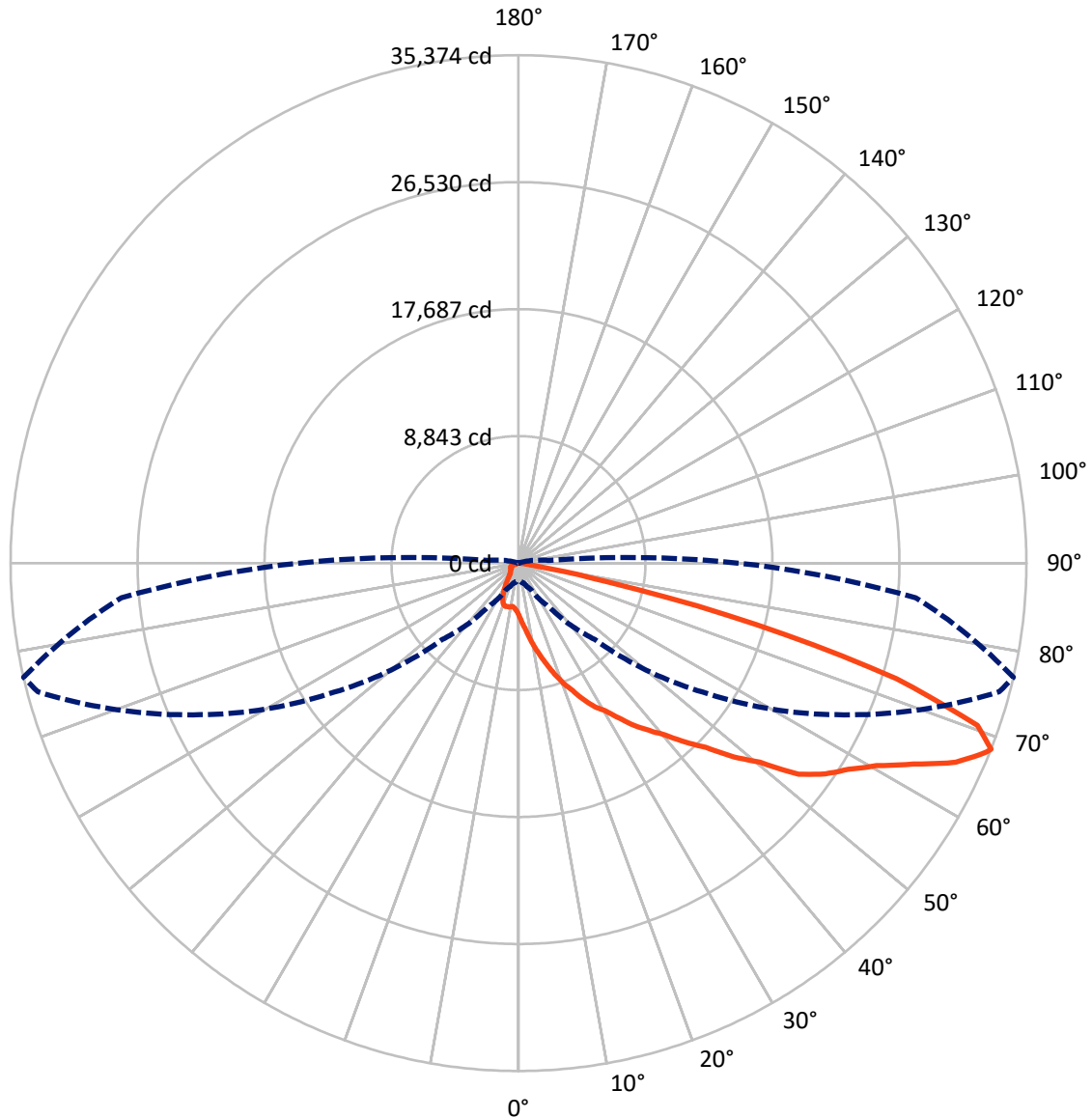
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1715.3	0.0	1715.3
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	36109.8	0.0	36109.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	37825.1	0.0	37825.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.1	1.1
10°-20°	1560.5	4.1
20°-30°	3024.3	8.0
30°-40°	5272.4	13.9
40°-50°	7721.9	20.4
50°-60°	9072.1	24.0
60°-70°	7660.6	20.3
70°-80°	2969.4	7.9
80°-90°	120.7	0.3
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°	37825.1	100.0
0°-180°	37825.1	100.0

**Coefficient of Utilization**

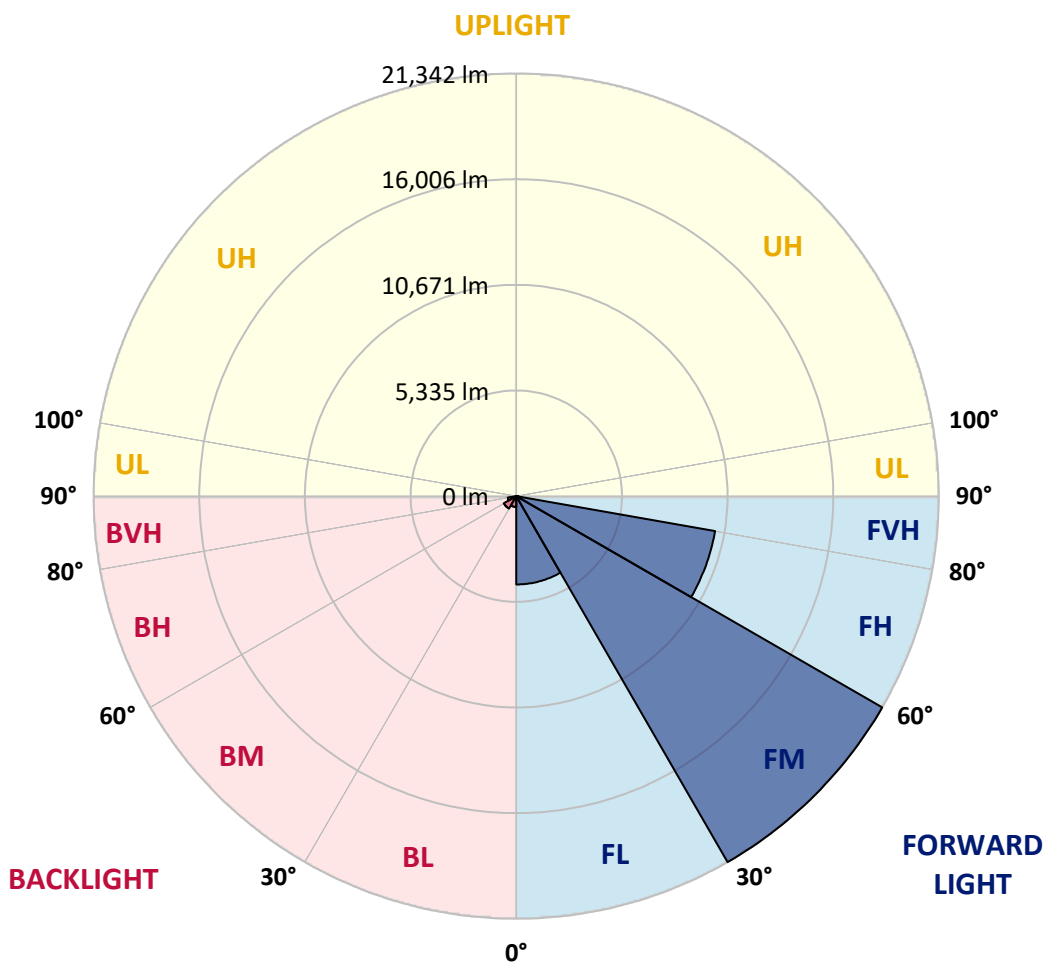


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4459.9	11.8			
FM (30°-60°)	21341.6	56.4			
FH (60°-80°)	10196.9	27.0			G4/12000
FVH (80°-90°)	111.4	0.3			G2/225
BL (0°-30°)	548.1	1.4	B2/1000		
BM (30°-60°)	724.8	1.9	B1/1000		
BH (60°-80°)	433.1	1.1	B1/500		G1/500
BVH (80°-90°)	9.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8
2.5°	5503.1	5398.8	5289.4	5258.1	5054.9	4825.6	4611.9	4403.5	4054.3	4059.6	3819.8
5°	7092.5	6962.2	6873.6	6852.8	6534.9	6138.8	5815.7	5226.9	4648.4	4518.1	4080.4
7.5°	8400.5	8358.8	8228.5	8119.1	7884.6	7400.0	7019.5	6175.3	5294.6	5148.7	4398.3
10°	9192.6	9255.2	9312.5	9171.8	8989.4	8640.2	8119.1	7207.1	6029.4	5847.0	4810.0
12.5°	10036.8	9932.6	9969.1	10083.7	9844.0	9765.9	9119.7	8270.2	6889.3	6540.1	5331.1
15°	10255.7	10297.4	10386.0	10719.5	10881.1	10657.0	10099.4	9130.1	7780.4	7295.7	5815.7
17.5°	10401.6	10380.8	10490.2	10990.5	11235.4	11449.1	11099.9	10088.9	8556.8	8124.3	6420.2
20°	10584.0	10469.4	10709.1	11027.0	11595.0	12043.2	12027.5	11053.0	9369.8	8911.2	7019.5
22.5°	11261.5	11172.9	11365.7	11397.0	11793.0	12418.4	12569.5	11839.9	10203.6	9640.8	7665.7
25°	12512.2	12673.7	12444.4	12246.4	12366.3	12777.9	12887.4	12538.2	11042.6	10526.7	8311.9
27.5°	14341.3	14320.5	13867.1	13611.7	13325.1	13273.0	13351.2	13189.6	11704.4	11334.4	8843.5
30°	16306.0	16134.0	15717.1	15102.2	14471.6	14080.8	13971.3	13804.6	12480.9	11944.1	9369.8
32.5°	17869.3	17963.1	17499.3	16696.8	15649.3	15123.0	14596.7	14414.3	13335.5	12861.3	9974.3
35°	19307.6	19182.6	18812.6	18135.1	17197.1	16347.6	15524.3	15133.4	14362.2	13893.2	10641.3
37.5°	20370.7	20527.1	19823.5	19177.3	18244.5	17541.0	16733.3	15878.6	15420.0	14794.7	11454.3
40°	21376.5	21131.6	20657.3	20063.3	19198.2	18661.4	18129.9	16795.8	16545.7	15737.9	12371.5
42.5°	21199.3	21214.9	20954.4	20474.9	19849.6	19542.1	19359.7	17911.0	17567.1	17051.2	13267.8
45°	20474.9	20537.5	20626.1	20391.6	20443.7	20136.2	20626.1	19193.0	18854.2	18307.1	14299.6
47.5°	19677.6	19781.8	19761.0	20188.3	20673.0	20777.2	22001.8	20615.6	20469.7	20167.5	15727.5
50°	18354.0	18395.7	18796.9	19573.4	20235.2	21324.4	23033.7	22168.6	22392.7	21798.6	17426.4
52.5°	16092.3	16243.4	17275.2	18385.2	19719.3	21600.6	23732.0	24477.2	25045.2	24435.5	19057.5
55°	13231.3	13439.8	14456.0	16535.2	18489.5	21183.7	24367.7	25696.6	26848.3	25925.9	20047.6
57.5°	10646.6	10667.4	11579.4	13726.4	16743.7	20365.5	24690.8	26290.7	27838.4	27098.4	21256.6
60°	8113.9	8030.5	8848.7	10709.1	13804.6	18354.0	23883.1	26592.9	29073.5	28646.2	22710.6
62.5°	5221.7	5091.4	5982.5	7796.0	10782.0	15003.1	22267.6	26598.1	31001.6	30840.1	25144.2
65°	2584.8	2496.2	3262.2	4778.7	7462.5	11475.1	19964.2	26499.1	33357.1	33461.3	27515.3
67.5°	1365.3	1396.6	1641.5	2423.2	4304.5	8108.7	16493.6	25337.0	34560.9	35144.6	28088.6
68°	1255.9	1266.3	1459.1	2016.7	3736.5	7519.8	15670.2	24998.3	34654.7	35373.9	27770.7
70°	1021.4	1037.0	1104.8	1266.3	2022.0	4893.3	12090.1	22121.7	33242.5	33899.1	25139.0
72.5°	813.0	859.9	901.5	969.3	1188.2	2569.1	7519.8	17238.8	27463.2	27536.2	19568.2
75°	620.1	656.6	740.0	797.3	927.6	1412.2	3580.1	10511.1	18020.4	17134.5	11527.3
77.5°	479.4	510.7	547.2	625.3	776.5	953.7	1094.4	4460.8	7655.3	6300.4	3257.0
80°	286.6	307.5	427.3	489.9	677.5	646.2	432.5	1240.3	1552.9	1224.6	594.1
82.5°	166.8	182.4	244.9	375.2	474.2	349.2	255.4	385.6	380.4	333.5	198.0
85°	5.2	10.4	135.5	224.1	166.8	93.8	156.3	161.5	135.5	125.1	88.6
87.5°	0.0	5.2	36.5	31.3	36.5	20.8	31.3	41.7	52.1	46.9	36.5
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°	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8	3621.8
2.5°	3658.3	3543.6	3288.3	3095.5	2887.0	2762.0	2636.9	2558.7	2517.0	2491.0	2511.8
5°	3752.1	3512.4	3100.7	2735.9	2496.2	2334.6	2173.1	2089.7	2011.5	1969.8	1995.9
7.5°	3960.5	3601.0	2918.3	2522.2	2240.8	1990.7	1787.5	1625.9	1532.1	1448.7	1464.4
10°	4215.9	3653.1	2923.5	2397.2	1990.7	1594.6	1308.0	1104.8	990.1	917.2	912.0
12.5°	4476.5	3856.3	2944.3	2272.1	1683.2	1198.6	859.9	708.7	641.0	604.5	604.5
15°	4872.5	4038.7	2892.2	2042.8	1276.8	781.7	588.9	536.8	510.7	479.4	484.6
17.5°	5216.4	4330.5	2866.2	1698.9	875.5	562.8	489.9	432.5	406.5	375.2	375.2
20°	5680.2	4512.9	2725.5	1313.2	604.5	469.0	396.1	343.9	302.3	276.2	281.4
22.5°	6102.4	4653.6	2475.3	896.3	463.8	370.0	291.8	239.7	203.2	172.0	177.2
25°	6560.9	4794.3	2110.5	552.4	328.3	229.3	156.3	114.6	78.2	57.3	57.3
27.5°	6889.3	4836.0	1636.3	328.3	198.0	104.2	36.5	5.2	0.0	0.0	0.0
30°	7222.8	4851.7	1130.8	177.2	78.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7603.2	4846.4	708.7	93.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	7895.0	4757.9	338.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8338.0	4627.6	104.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8843.5	4393.1	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9296.8	4153.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9812.8	3856.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10719.5	3731.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11902.5	3632.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12632.0	3340.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13012.5	3038.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	13575.3	2892.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14409.1	2902.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15711.9	3048.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16431.0	2902.7	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15821.3	2324.2	99.0	26.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	15295.0	2136.6	99.0	26.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	12642.5	1391.4	93.8	26.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9208.3	771.3	78.2	20.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	5357.1	385.6	57.3	20.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1396.6	192.8	46.9	26.1	15.6	5.2	0.0	0.0	0.0	0.0	0.0
80°	276.2	125.1	41.7	31.3	20.8	10.4	0.0	0.0	0.0	0.0	0.0
82.5°	130.3	88.6	41.7	31.3	26.1	15.6	5.2	0.0	0.0	0.0	0.0
85°	67.7	41.7	41.7	31.3	31.3	20.8	10.4	0.0	0.0	0.0	0.0
87.5°	31.3	15.6	15.6	15.6	15.6	10.4	5.2	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)