

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: P482903

Luminaire Tested: **IFLD-L-SA7D-750-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482903  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-750-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

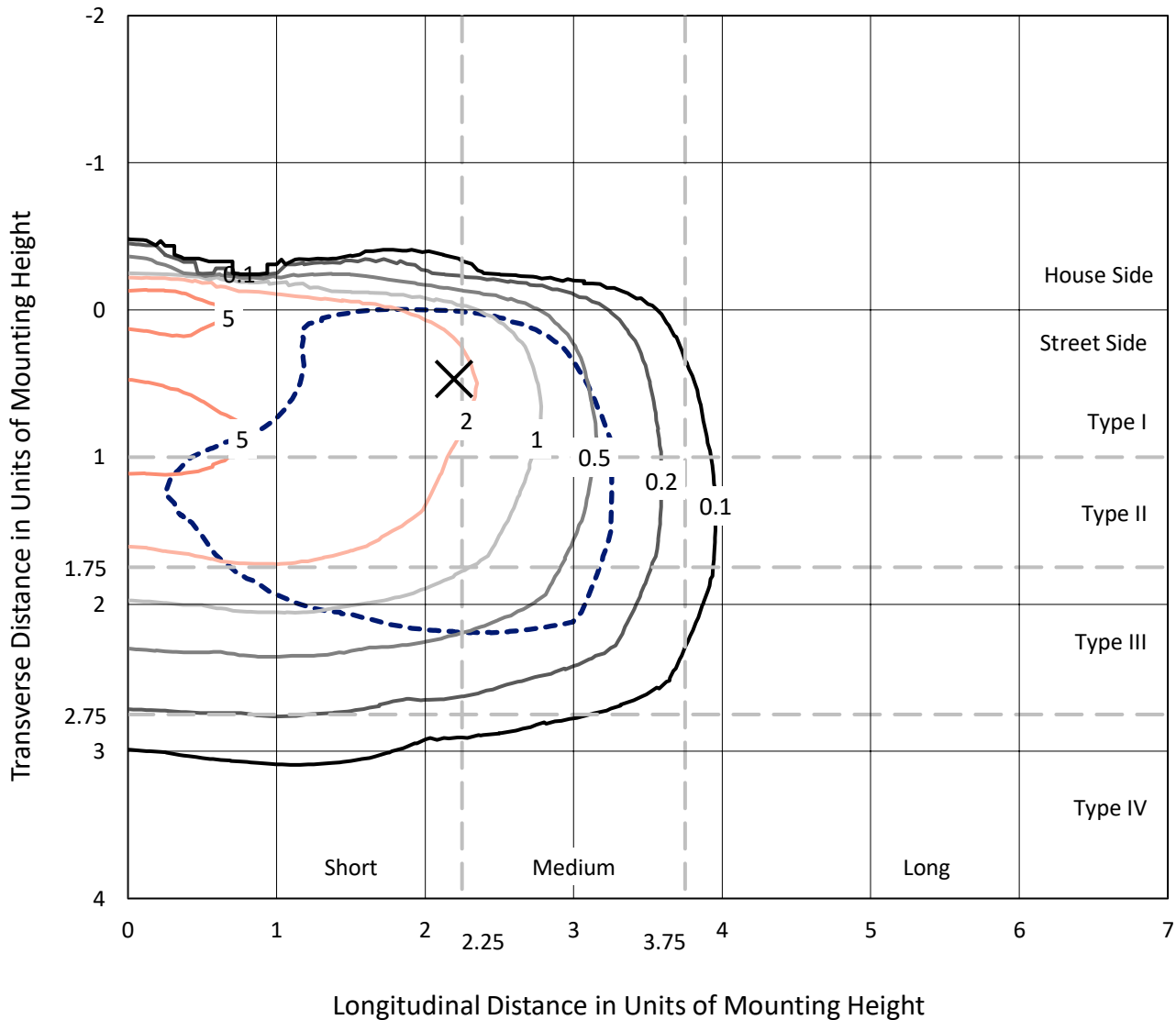
Lumens per Lamp: N/A  
Luminaire Lumens: 35766.5 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

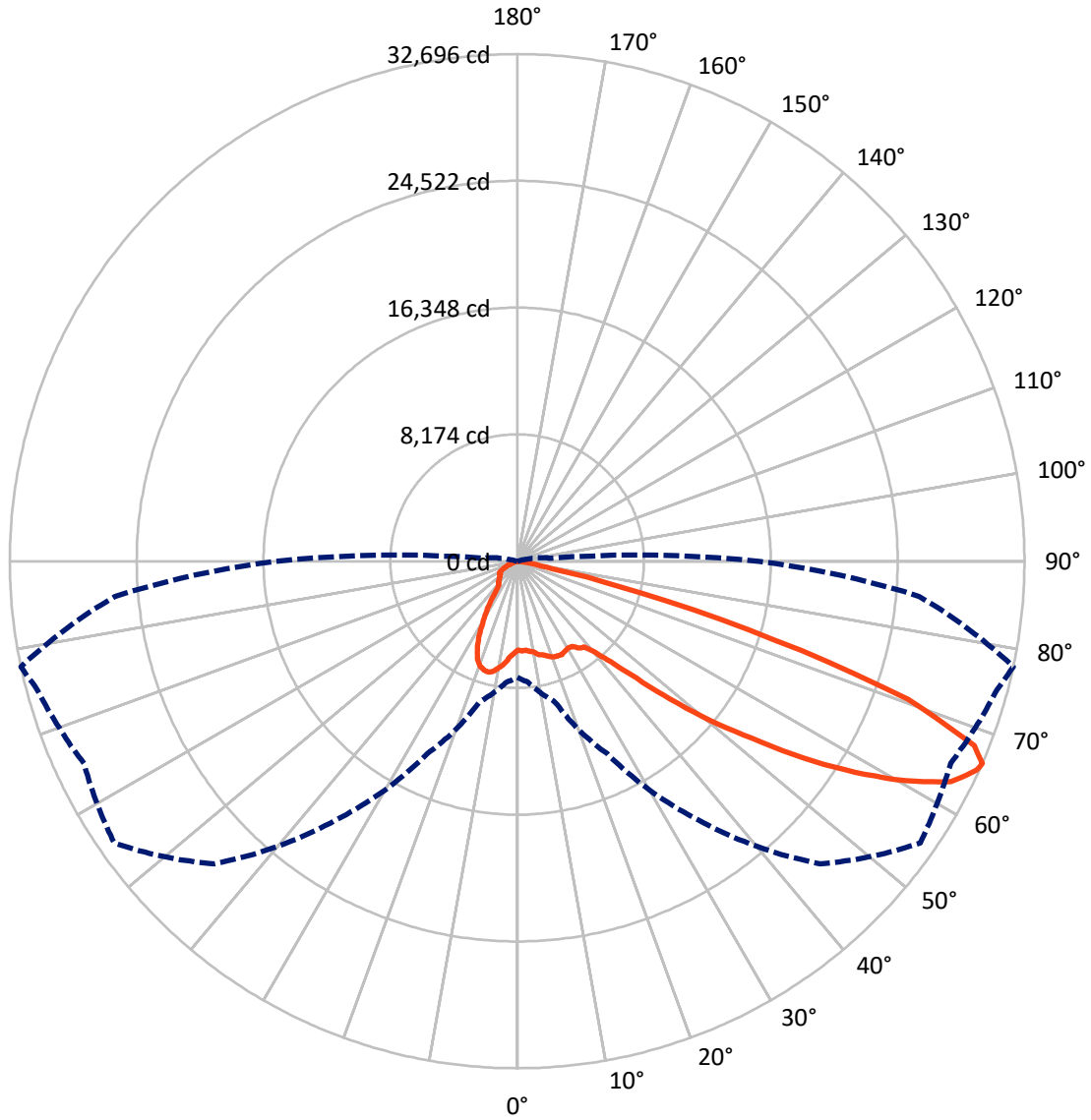
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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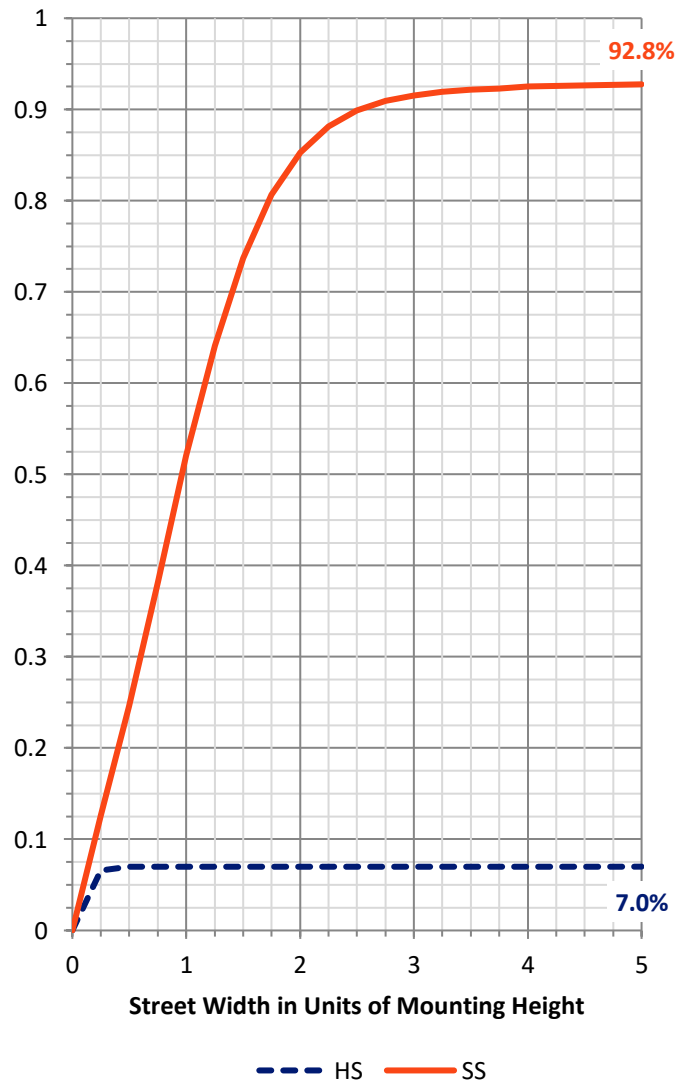
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2514.5	0.0	2514.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	33251.9	0.0	33251.9
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	35766.5	0.0	35766.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.1	1.5
10°-20°	1183.0	3.3
20°-30°	1690.9	4.7
30°-40°	2894.5	8.1
40°-50°	5224.2	14.6
50°-60°	8934.0	25.0
60°-70°	10996.2	30.7
70°-80°	4157.2	11.6
80°-90°	162.4	0.5
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°	35766.5	100.0
0°-180°	35766.5	100.0

**Coefficient of Utilization**

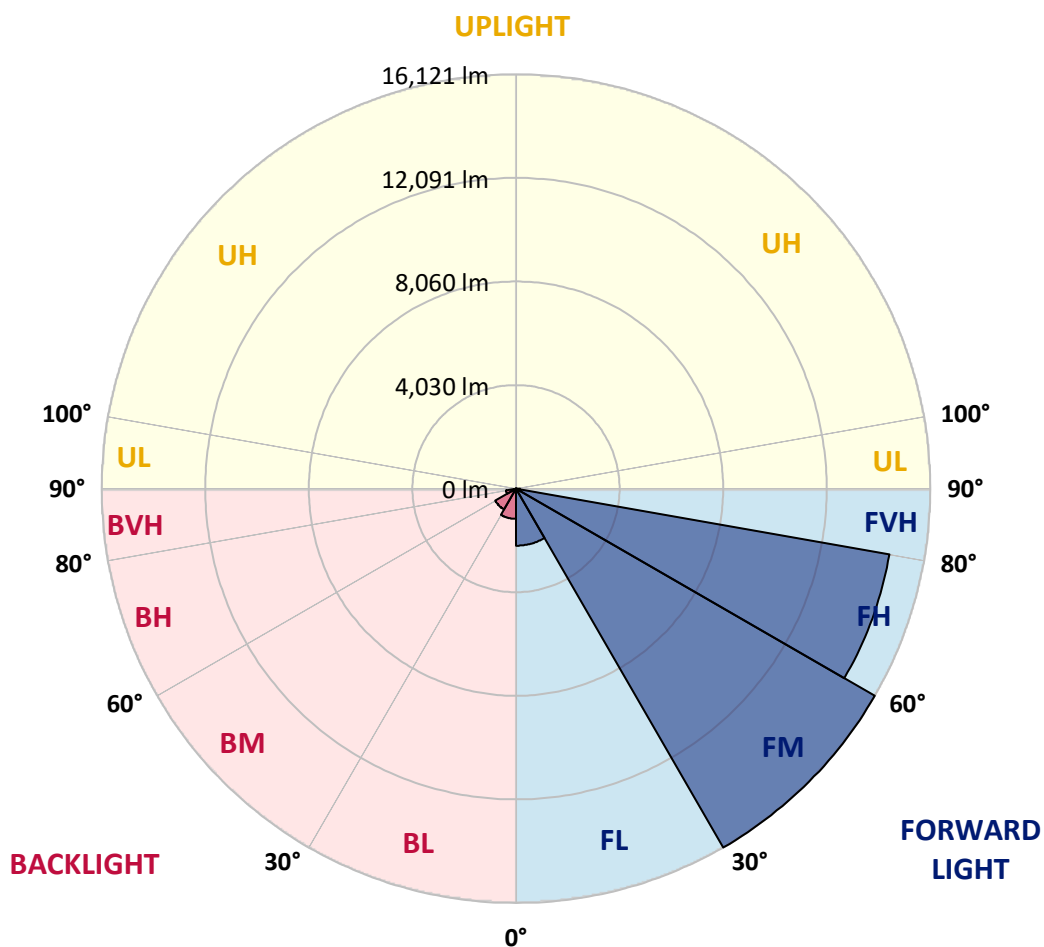


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.4	6.2			
FM (30°-60°)	16120.7	45.1			
FH (60°-80°)	14755.0	41.3			G5
FVH (80°-90°)	155.9	0.4			G2/225
BL (0°-30°)	1177.7	3.3	B3/2500		
BM (30°-60°)	932.0	2.6	B1/1000		
BH (60°-80°)	398.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6
2.5°	5269.3	5220.6	5269.3	5339.5	5377.3	5409.8	5523.3	5620.5	5723.2	5793.5	5771.9
5°	4885.5	4977.4	4988.2	5009.9	5069.3	5263.9	5328.7	5496.2	5750.2	5771.9	5869.1
7.5°	4582.9	4555.9	4626.1	4766.7	4918.0	5031.5	5220.6	5512.5	5777.3	5869.1	6058.3
10°	4145.2	4199.2	4274.9	4415.4	4599.1	4880.1	5215.2	5539.5	5917.8	5950.2	6301.5
12.5°	3907.4	3853.3	3972.2	4118.1	4431.6	4691.0	5101.7	5490.8	6004.3	6182.6	6587.9
15°	3712.8	3739.8	3853.3	3950.6	4210.0	4539.7	5020.7	5609.7	6150.2	6274.5	6890.6
17.5°	3631.7	3615.5	3702.0	3799.3	4118.1	4491.0	4988.2	5615.1	6279.9	6442.0	7095.9
20°	3669.6	3702.0	3675.0	3766.8	3966.8	4345.1	5036.9	5717.8	6377.2	6598.7	7317.5
22.5°	4264.0	4220.8	4004.6	3831.7	3842.5	4285.7	4999.0	5782.7	6463.6	6642.0	7468.8
25°	5815.1	5582.7	5047.7	4382.9	3945.2	4123.5	4955.8	5761.1	6447.4	6669.0	7560.7
27.5°	7377.0	7177.0	6652.8	5620.5	4361.3	4058.7	4804.5	5777.3	6366.3	6571.7	7409.4
30°	9025.3	9133.4	8355.2	7128.4	5453.0	4415.4	4707.2	5690.8	6312.3	6485.2	7441.8
32.5°	10716.9	10673.6	10203.4	8874.0	7014.9	5204.4	4863.9	5777.3	6382.6	6550.1	7631.0
35°	12040.9	11889.6	11414.0	10214.3	8306.5	6393.4	5404.4	6188.0	6690.6	6890.6	7901.2
37.5°	12694.9	12759.7	12484.1	11441.0	9722.5	7495.9	6079.9	6188.0	6787.9	7020.3	8338.9
40°	13202.9	13397.4	13294.7	12959.7	11127.6	8738.9	6825.7	6571.7	7279.7	7717.4	9160.4
42.5°	13813.6	13721.7	14327.0	14018.9	12965.1	10306.1	8133.6	7485.1	8441.6	8863.2	10392.6
45°	14137.8	14489.1	14948.5	15343.0	14667.5	12262.5	9841.4	9101.0	10219.7	10754.7	12224.7
47.5°	14970.1	15110.6	15856.4	16353.6	16051.0	14499.9	12435.5	11462.7	12457.1	13300.2	14321.6
50°	15456.5	15267.3	16310.4	17067.0	17239.9	16353.6	14759.3	14002.7	15116.0	16191.5	16283.4
52.5°	15029.6	15570.0	16613.0	17969.5	18450.5	18007.4	17488.5	17158.9	17942.5	18936.9	18493.8
55°	13532.5	13900.0	16440.1	18958.5	20509.6	20304.2	20785.2	20569.0	21358.1	22411.9	21077.0
57.5°	12327.4	12786.7	15018.7	19471.9	22428.1	23033.4	23638.7	23503.6	24454.8	25670.8	23265.8
60°	11576.2	11841.0	13991.9	19342.2	23563.1	25854.5	27221.8	26270.6	27821.7	28751.2	24979.0
62.5°	10273.7	10441.2	12494.9	17623.6	23903.5	27848.7	30167.2	28875.5	30221.2	31356.2	26211.2
65°	8236.3	8690.2	10387.2	15051.2	21655.3	28216.2	32004.7	30486.0	31788.5	32534.3	26584.1
66°	7495.9	7825.5	9382.0	13689.3	20374.5	27605.5	31696.6	30821.1	32015.5	32696.4	26011.2
67.5°	6220.4	6506.9	7744.5	11749.1	17753.4	26259.8	31912.8	30594.1	32188.4	31772.3	25243.8
70°	4118.1	4301.9	5296.3	7944.4	12365.2	21482.4	29599.7	28821.5	28297.3	26735.4	19736.8
72.5°	1924.0	2188.8	3307.5	4815.3	7252.7	15029.6	24135.9	23092.9	19844.8	17348.0	12451.7
75°	870.1	989.0	1815.9	2761.6	3253.4	7787.7	15570.0	14062.2	9879.2	8203.8	5453.0
77.5°	470.2	535.0	886.3	1313.3	1183.6	2729.2	7706.6	6409.6	3112.9	2280.6	1583.5
80°	362.1	426.9	740.4	751.2	437.8	708.0	2864.3	1983.4	778.2	589.1	378.3
82.5°	189.2	270.2	583.7	486.4	221.6	286.4	886.3	551.2	243.2	194.6	162.1
85°	75.7	118.9	329.7	324.3	129.7	97.3	248.6	167.5	97.3	81.1	75.7
87.5°	5.4	5.4	178.3	124.3	81.1	27.0	37.8	37.8	48.6	43.2	54.0
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°	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6	5728.6
2.5°	5869.1	5934.0	5944.8	6123.2	6161.0	6123.2	6220.4	6204.2	6247.5	6215.0	6155.6
5°	6004.3	6096.1	6274.5	6409.6	6409.6	6301.5	6215.0	6101.5	5934.0	5890.8	5858.3
7.5°	6236.6	6528.5	6690.6	6604.1	6431.2	6025.9	5463.8	5053.1	4707.2	4577.5	4518.1
10°	6647.4	6809.5	6998.7	6647.4	5928.6	5069.3	4123.5	3502.0	3015.6	2907.6	2826.5
12.5°	6912.2	7171.6	7279.7	6409.6	4999.0	3718.2	2691.4	1988.8	1648.3	1388.9	1345.7
15°	7258.1	7555.3	7333.7	5766.5	3939.8	2437.4	1394.3	870.1	708.0	664.7	664.7
17.5°	7495.9	7820.1	7112.2	4966.6	2794.1	1297.0	691.8	599.9	589.1	594.5	583.7
20°	7912.0	8106.6	6777.1	4037.1	1670.0	664.7	556.7	535.0	524.2	540.4	529.6
22.5°	8068.7	8247.1	6231.2	2923.8	751.2	443.2	416.1	399.9	410.7	405.3	399.9
25°	8057.9	8149.8	5334.1	1675.4	221.6	172.9	156.7	156.7	145.9	151.3	145.9
27.5°	8139.0	7912.0	4328.9	497.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	8182.2	7528.3	3080.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8203.8	7328.3	1983.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8371.4	6928.4	848.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8484.9	6415.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8955.0	6252.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9565.7	5950.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10414.2	5501.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11538.3	5236.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12376.0	4820.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13440.7	4572.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14705.3	4582.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15856.4	4507.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16445.5	3853.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16321.2	3118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15888.8	2448.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15591.6	2167.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14689.1	1734.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11689.7	1189.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7436.4	729.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3426.4	335.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1075.5	205.4	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	281.0	129.7	43.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	145.9	91.9	37.8	16.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.9	37.8	16.2	10.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	81.1	21.6	10.8	10.8	5.4	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)